



**Information Technology Division
2015-2016 Strategic Execution Plan**



LOS ANGELES UNIFIED SCHOOL DISTRICT

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2015 Information Technology Division

Strategic Execution Plan

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November 19, 2015

Dear students, families, employees, and community members:

Our Board of Education and Superintendent are committed to investing in technology that will pave the path for our students to succeed in college, their careers, and beyond. With this in mind, I am pleased to present the Information Technology Strategic Execution Plan (SEP) for 2015-2016.

The SEP is a comprehensive roadmap that guides all technology projects critical for supporting teaching and learning in the Los Angeles Unified School District. The following pages provide complete details of efforts underway to modernize the infrastructure our schools rely on to support our students.

With this plan, our Information Technology Division is committed to implementing solutions that provide our schools with the infrastructure and equipment they need to teach all students the skills they will need for success in the 21st century workforce.

Respectfully yours,



Shahryar Khazeri
Chief Information Officer

TABLE OF CONTENTS

OVERVIEW

TABLE OF CONTENTS	1
EXECUTIVE SUMMARY	3
MISSION	3
VISION	3
GUIDING PRINCIPLES	3
ORGANIZATIONAL OVERVIEW	4
PROGRAM GOALS AND SCOPE	8
CLASSROOM TECHNOLOGY MODERNIZATION PROGRAM	8
SCHOOL NETWORK MODERNIZATION PROGRAM	9
SAFETY, COMMUNICATIONS AND SECURITY MODERNIZATION PROGRAM	11
STUDENT INFORMATION SYSTEMS OPTIMIZATION	12
DISASTER RECOVERY AND BUSINESS CONTINUITY PROGRAM	12
FUNDING/COST	14
OVERVIEW	14
COST MANAGEMENT	14
FUNDS MANAGEMENT	14
MANAGEMENT	17
PROGRAM MANAGEMENT	17
DESIGN GUIDELINES	17
REPORTING	18
DELIVERABLES SUMMARY	20
CLASSROOM TECHNOLOGY MODERNIZATION PROGRAM	20
SCHOOL NETWORK MODERNIZATION PROGRAM	21
SAFETY, COMMUNICATIONS AND SECURITY MODERNIZATION PROGRAM	25
STUDENT INFORMATION SYSTEMS OPTIMIZATION PROGRAM	26
DISASTER RECOVERY AND BUSINESS CONTINUITY PROGRAM	27
APPENDIX A: LOCAL AREA NETWORK MODERNIZATION SCHEDULE BY SCHOOL	29
APPENDIX B: NETWORK EQUIPMENT UPGRADE PROJECTS	30

2015 STRATEGIC EXECUTION PLAN

OVERVIEW



EXECUTIVE SUMMARY

The Information Technology Division is responsible for building and maintaining the technology needed to support 21st century teaching and learning in the Los Angeles Unified School District.

Mission

We enable student achievement and operational efficiency through deployment of appropriate technical solutions for our students and their families, our employees, and the community. This includes the following bond programs:

- Classroom Technology Modernization Program
- School Network Modernization Program
- Safety, Communications and Security Modernization Program
- Student Information Systems Modernization Program
- Disaster Recovery and Business Continuity Program

Vision

We are a high performing, customer-focused, proactive, and innovative division that supports the needs of LAUSD, providing appropriate and effective technological solutions to facilitate each student's path to college and career readiness.

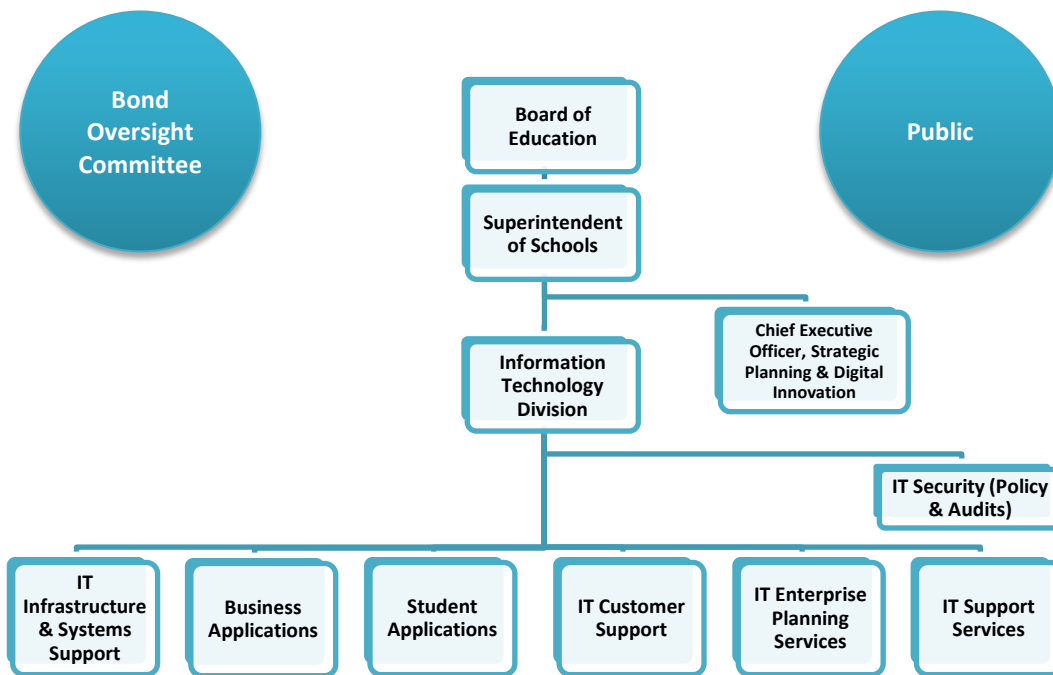
Guiding Principles

Everything we do in the Information Technology Division is aligned to the priorities set by the Board of Education, Superintendent, and is in concert with industry, state, and national standards. Four guiding principles for our division guide our work: 1) improving governance and transparency, 2) making IT easier to understand and work with, 3) aligning our initiatives to a comprehensive enterprise architecture, and 4) the support and development of the people who make it happen. Through these principles, we strive to accomplish the following key goals:

- Optimize the information and communication infrastructure needed to support a high-performance 21st century learning environment
- Increase efficiencies and effectiveness freeing up resources for the classroom.

Organizational Overview

The Los Angeles Unified School District and Information Technology Division are organized as follows:



Board of Education

The seven members elected to the Los Angeles Unified School District Board of Education (Board) are responsible for setting District policies, including those that guide the actions of the Information Technology Division (ITD). The Board also provides approval during various stages of the projects executed by ITD.

Superintendent of Schools

The Superintendent of Schools, selected by the Board, is responsible for the District's day-to-day operations and execution of Board policy. Part of the Superintendent's cabinet, the Chief Information Officer facilitates development and delivery of technological services and programs to support instruction and increased business operational efficiencies. Also part of the Superintendent's cabinet, the Chief Executive Officer, Strategic Planning and Digital Innovation oversees ITD and provides direction to the My Integrated Student Information System (MiSiS) project.

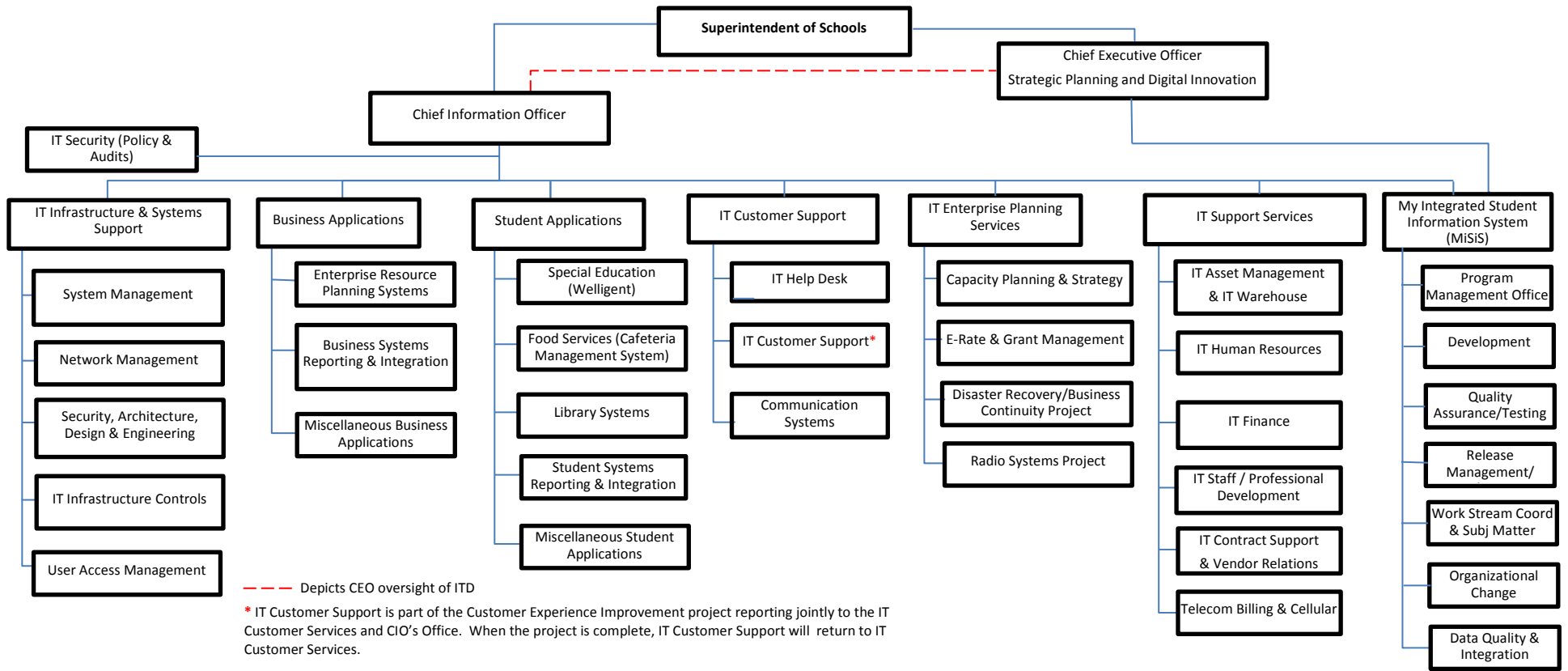
School Construction Bond Citizens' Oversight Committee

As required under LAUSD voter-approved bond measures, the Board has established a Bond Citizens' Oversight Committee (BOC) to advise on the efficacy of bond fund expenditures and program development. Committee members represent a broad constituency and provide an independent review of bond-funded programs. The BOC also reviews every project funded by local bond measures including budget, scope, and schedule prior to action by the Board.

Information Technology Division

The Information Technology Division is responsible for supporting the District's instructional mission and operations through deployment of the most current, robust, user-friendly, and cost-effective technology solutions. There are four key areas within the division:

- 1) **IT Security (Policy & Audits)** is responsible for the identification of IT security risks and development and implementation of corresponding policies to protect the District's information systems and data; conduct of assessments on the District's information systems and practices to minimize IT risks; and ensuring that ITD is in compliance with District security policies, industry best practices and existing laws and regulations.
- 2) **IT Infrastructure and Systems Support** is responsible for all aspects – conception, architecture (alignment with District goals), design and engineering, testing, selection, implementation and maintenance – of the District's IT infrastructure. Though many of the functions delivered by this group are not directly visible to school users, the group's efforts are critical to the proper functionality of every piece of classroom technology and business systems throughout the District.
- 3) **Business Applications** is responsible for maintenance of systems that drive business efficiency within the District, such as the enterprise resource planning system that is responsible for budget, payroll, procurement tracking and other business functions.
- 4) **Student Applications** is responsible for maintenance of systems that impact students and student achievement, such as the student information, cafeteria management and library management systems.
- 5) **IT Customer Support** is responsible for technological customer support via "hotline" – telephone and online chat – and deployment of field services personnel to schools and offices to resolve issues related to computing devices, software applications, and communication systems (public address/ intercoms, telephone, radio, local area network, security, etc.).
- 6) **IT Enterprise Planning Services** is responsible for the District's network capacity planning and strategy, E-rate and grant management, disaster recovery and business continuity project and radio systems project.
- 7) **IT Support Services** provides support to all areas of the Division in terms of finance, purchasing, human resources and other areas.



2015 STRATEGIC EXECUTION PLAN

PROGRAMS



Program Goals and Scope

The respective goals and scope for the Classroom Technology Modernization Program; the School Network Modernization Program; the Safety, Communications, and Security Modernization Program; the Student Information Systems Optimization Program; and the Disaster Recovery and Business Continuity Program are detailed in this section.

Classroom Technology Modernization Program

The Classroom Technology Modernization Program is a technology-enabled learning environment that promotes active engagement of students in their studies and immediate timely information access for their families, educators, and administrators.

The key components of the program include investment in:

- Classroom technology devices;
- Instructional leadership support and professional development;
- A learning management system that delivers online lesson plans and instructional tools;
- Upgrades to the District's email systems that allows all LAUSD stakeholders to communicate more effectively;
- School networks capable of transporting educational content from the internet into the classroom and from teachers to students as well as among groups of students; and
- Improvements to the District's centralized network infrastructure to capture and transmit information critical to teachers and administrators.

The Instructional Technology Initiative (ITI)

As of July 2015, the Instructional Technology Initiative (ITI), formerly known as the Common Core Technology Project, was reorganized and repurposed to have a greater focus on instruction and less focus on computing devices. The vision of ITI remains that all schools use technology as a tool to differentiate and personalize instruction, increase academic rigor, and build student ownership of learning using a portfolio of student-centered school models. ITI's mission is to prepare all students to be digital learners who use technology as a tool to graduate ready for success in college and careers. The initiative's vision and mission are accomplished through provision of technology instructional leadership support and professional development to staff. As part of the new project, ITI has been able to expand support and services District-wide, to all schools requesting instructional technology assistance.

Project Phases include:

- **Phase 1** – Approved by the BOC in January 2013 and the Board of Education in February 2013, includes the transformation of every classroom across 47 schools by way of provision of devices, technical infrastructure and professional development.
- **Phase 1L and Phase 2** – Approved by the BOC in November 2013 and the Board in December 2013, includes provision of devices and professional development to 38 elementary schools (11 as part of phase 2A and 27 as part of phase 2B), a laptop pilot project at 21 high schools (phase 1L), and adequate computing devices for student testing at all LAUSD schools.

School Network Modernization Program

The District operates on the largest computing network of any K-12 organization in the United States. There are two key categories of projects included in the School Network Modernization Program: 1) Core Network Modernization, which consists of critical updates to the foundation of the network on which all schools rely, and 2) Local Area Network Modernization, which is optimization of the network equipment within each school building, ensuring that bandwidth and wireless requirements are met.

The School Network Modernization Program is designed to optimize the hardware required to address communication requirements to ensure safety concerns are met and to maximum operational efficiency. To meet increasing demand for internet access in the classroom, schools need 1) adequate bandwidth – the size of the virtual pipeline through which information flows to and from each classroom, and 2) high-density wireless, which enables a large number of students and teachers to access the network simultaneously without slowing it down. Current funding equips schools with the hardware necessary to address both of these key components.

The School Network Modernization Program leverages previous investments and controls costs by building on, integrating, and maximizing existing systems and utilizing the most advanced and proven technologies, while maximizing limited bond and E-rate dollars (a federal program designed to subsidize connectivity in schools and libraries).

Core Network Modernization

The Core Network refers to the foundational infrastructure on which all school networks rely and serves as the virtual backbone for the entire LAUSD network. The Core Network facilitates school access to the Internet and educational and business applications and is comprised of equipment and software in the Wide Area Network (WAN) and the Centralized Network Operations Center (NOC). All network traffic including online assessments, email, educational applications, and the Internet must flow through the District's core network. Monitoring and management enables ITD to identify and resolve problems proactively ensuring student access to essential instructional resources.

The scope of Core Network Infrastructure includes:

Implement Mobile Access Management: Controls information by channeling all mobile data through a secure, easily managed, and monitored server;

Install School Shared Network Components: Upgrade or install network equipment to provide the bandwidth necessary to meet increased classroom demand for media-rich interactive lesson plans, assessments, and internet usage;

Implement Network and Data Center Performance Monitoring and Management: Purchase and install tools needed to manage and optimize the performance of the school networks;

Video Infrastructure: Build a shared video solution for schools to address, store, view, and load videos and use videoconferencing;

Web Application Firewall: Install systems to increase protection for students by limiting outside access to applications hosted in the District's Data Center;

Data Discovery/Privacy/Personal Data: Implement solutions that provide data discovery to identify private/ personal information fields across applications and platforms;

IP Address Planning: Implement the necessary management system to support the District’s current and future use of electronic devices, including, but not limited to, computers, tablets, printers, smartphones, access points, routers, etc.;

School Wide Area Network (WAN) Availability and Out of Band Management: Ensure that at least 99% of District schools have Internet connectivity at the beginning of the instructional day by implementing hardware and software to allow for centralized oversight of school site network equipment for troubleshooting and remote issue resolution. The system also provides a secondary connection to the District’s network enabling continuity of critical business functions in the event of a primary network outage; and

Data Center Network Upgrades: Replace the District’s existing network up to 40GB network component to enable high speed server-to-server communication between the District’s primary Data Center, disaster recovery site, network nodes and schools.

Local Area Network Modernization

A Local Area Network (LAN) refers to the equipment and cabling inside a school building that provide students, teachers, and staff connectivity to the Internet and instructional resources, such as printers, copiers, smart boards, projectors, etc. LAN equipment has a finite useful life. With limited funding available, there is a delicate balance between meeting instructional needs, ensuring reliability and availability and replacing obsolete network equipment.

During the last few years, instructional practices have required greater wireless coverage and bandwidth. Appendix A consists of 461 school network modernization projects that will replace deteriorated cabling and failing network equipment (switches and routers), implement equipment to extend wireless coverage and/or install fiber cabling to increase bandwidth to the site. Modernization efforts focus on replacement of equipment that is near or has exceeded its useful life due to the increased cost of continuing to operate end-of-life resources.

As of October 2015, approximately 95 percent of the wireless network modernization projects were complete. Remaining resources – staff and project funds – were shifted to upgrade wired networks at 357 schools that previously received wireless upgrades (Appendix B and C). The wired network modernization also received E-rate funding (approved BOE #094-14/15) to cover the cost of the project.

In addition to meeting current instructional access needs, ITD is piloting networks that include telephone, audio visual, public address, intercommunication, and notification services. Provisioning all these services on the traditional network is called Network Convergence. In Network Convergence, a single network “pipe” is used to add various types of networking equipment in order to deliver all forms of communication services. The primary goal of such integration is to deliver better services and lower costs to the District. This technology is similar to what is found in many homes today whereby service providers deliver phone, television, and Internet access all on the same wiring.

The 12 pilot LAN modernization projects that include Network Convergence are in varying stages of completion. Work under these projects includes replacement of obsolete and failing telephone, public address, and intercommunication equipment and addition of these services onto the data network. The 12 pilot projects are in progress at 109th Street Elementary School, 118th St Elementary School, Avalon Gardens Elementary School, Dorris Place Elementary School, Garvanza Elementary School, Kim Elementary School,

Marlton School, Raymond Avenue Elementary School, Ritter Elementary School, San Gabriel Elementary School, Strathern Elementary School, and Wilshire Park Elementary School.

During the pilot phase, ITD is collecting lessons learned and gathering additional information by completing school site IT system condition surveys at all LAUSD K-12 school sites (Approved BOE #388-13/14) to determine the extent that existing infrastructure can be reutilized to reduce future projects' costs. To date 59 percent of the school surveys are complete.

Safety, Communications and Security Modernization Program

As the steward of the District's safety, communications, and security systems—including handheld radios, public address, and alarm systems—ITD is responsible for maintaining the inventory of equipment and upgrading and replacing equipment as necessary. The division's ongoing work is focused on identifying the most modern and cost-effective solutions enabling the District to ensure the safety of its students and employees. Our current efforts in this realm are focused on upgrades to radio systems and equipment necessary to ensure safe communication among those responsible for student safety and compliance with Federal Communications Commission mandates.

Radio Systems Project

Radio systems are a vital part of the District's goal to provide instruction in a safe and nurturing environment. Emergency first responders, school administrators, and bus drivers—among others—rely on these systems to ensure communication of emergency information to the proper audiences without fail. The District has two radio systems with different Frequency Bands. Two bands are used due to the limited frequencies available on each band and the number of users.

The 450Mhz system upgrade was completed prior to the 2014 SEP update. District staff are now working with Sprint and Motorola to reconfigure the 800Mhz systems to comply with new Federal Communications Commission (FCC) regulations. The FCC requires organizations to update the configurations on radio devices to use narrower channels, thereby opening up the airwaves for more users – a process known in radio technology as “Narrowbanding.” Due to the age of the District's systems, this requires updating infrastructure and replacing obsolete equipment or reprogramming newer equipment. The narrowbanded frequencies will be used by the school bus transportation division for daily communications and by school police and central support divisions during emergencies without interfering with other systems in the Southern California region.

Sprint is covering the majority of 800 Mhz project's cost because they are requesting the use of some of the new narrowbanded frequencies. Negotiations regarding scope and costs of narrowbanding have been completed and approved by the FCC. Replacement and reprogramming of the District's radios and receivers is scheduled to begin mid-November 2015 and to complete by the beginning of March 2016.

Once the required narrowbanding of the 800 MHz project is complete, then ITD can move to the next phase of replacing any remaining radio equipment that is obsolete and addressing challenges associated with using both 450 MHz and 800 MHz bands. Limited frequency availability creates challenges because different types of radio equipment are used based upon the frequencies. In addition, the operational needs of various users differ and require unique consideration in the project. To ensure that all challenges are addressed and all needs are met, the Radio Governance Committee has been formed to provide direction, guidance, and

oversight for this project. The committee includes representatives from schools, School Police, ITD, Transportation, Food Services, School Operations, Facilities, and the Office of Environmental Health and Safety.

Student Information Systems Optimization

The My Integrated Student Information System (MiSiS) project is the replacement of legacy student information systems to provide a single and comprehensive system built on modern technologies to meet the needs of our teachers, administrators, school-based staff, students, and families. MiSiS provides a unified platform to support critical school activities like student enrollment, master scheduling, grade reporting and transcripts, student athletics, student testing, student support, and program management, among others.

The Student Information Systems Optimization program benefits the District in that it:

- Provides a consistent data collection mechanism across schools;
- Provides daily centralized/automated attendance reporting;
- Provides longitudinal student tracking across all grade levels, schools, and programs;
- Facilitates constructive conversations about each student’s educational progress among parents/guardians, teachers, and administrators; and
- Ensures compliance with all applicable special education laws as mandated by the Modified Consent Decree

My Integrated Student Information System

The My Integrated Student Information System (MiSiS) project is the integration of K-12 student information systems onto a unified platform. The modernized platform provides increased flexibility, usability, cost effectiveness.

This platform provides the following advantages: 1) the system is under District ownership where it can be freely adapted and maintained internally without software licensing costs, and 2) it provides a solution that has already been deployed and used successfully in a large complex school District (Fresno Unified). The transformation to the new system also takes into consideration a computing environment that is increasingly mobile (i.e., shifting away from wired desktops toward wireless laptops, tablets, and smart phones); recognizing this, we are working to ensure that data is at the fingertips of the user on any type of device at any time and in any context.

Disaster Recovery and Business Continuity Program

All of the District’s mission critical information systems—including student transportation, payroll, food services, school police, facilities, and student information—are dependent upon the operability of the District’s applications and technology infrastructure. All systems are linked to the Data Center, which serves as the information hub of the entire technology network and is located in Downtown Los Angeles in District headquarters. The Data Center is currently without a redundant or failover site, meaning that an unexpected

disaster—such as a fire or earthquake—could cause severe damage to the infrastructure; thereby, crippling all of the District’s critical systems.

The District’s Disaster Recovery and Business Continuity (DR/BC) Program is designed to address this problem by rolling out solutions on which the District can rely in the event of a disaster. Disaster Recovery refers to the ability of the District to “bounce back” expediently in the event of a disaster. Currently, it could take weeks to months to recover from even a minor disaster; the District’s aim is to reduce that to a period of less than 24 hours. Business Continuity refers to the District’s ability to continue operating during a time when critical systems are in the process of being recovered.

Disaster Recovery and Business Continuity Project

The project consists of two phases – Data Recovery and Business Continuity. An overview of each phase is provided below.

Phase 1: Data Recovery

Phase 1, Data Recovery, focuses on loss prevention of high priority business and educational data by storing an extra copy of that data on disk at a small, backup location site. This strategy entails three categories of activities: identification of a suitable backup site (site selection), execution of the necessary infrastructure upgrades to that backup site (infrastructure upgrades), and identification and implementation of optimal data replication technologies (data replication).

Phase 2: Business Continuity & Disaster Recovery

Phase 2, Disaster Recovery, focuses on ensuring technology-reliant business and education processes could continue if a disaster were to take place in the main Data Center. This goal is accomplished by provisioning a Container Based Data Center as a secondary (“failover”) site with modernized and consolidated Data Center technologies. The District will also set up a tertiary (“disaster recovery”) co-located data center site located out-of-state tertiary to mitigate risks involving a large earthquake in the Los Angeles region. In the event of disruption or disaster, business and educational operations will continue from the “failover” or “disaster recovery” site. As part of Phase 2, ITD is also performing an in-depth analysis to identify systems that need modernization.

Funding/Cost

Overview

The Information Technology Division bond program addresses the District's needs for increased capacity for 21st century teaching and learning as well as increased operational efficiency maximizing resources that can be used directly for classrooms. Three local bonds (Measures K, R, and Y) passed by the voters within LAUSD boundaries provide the majority of the funds. A fifth local bond, Measure Q, which passed in 2008, is anticipated as the primary funding source for future capital projects. General Fund and federal E-rate funding comprise the balance of program funding.

Bond program funds cannot be used for school operations or administrative support tasks such as general administration, teachers' salaries, materials, and/or supplies for general or instructional use. Allowable uses include:

- Modernization
- Renovation
- Construction
- Increase of capacity in classrooms or specialized facilities such as libraries
- Land purchase and relocation to enable school use

Each project budget may include several or all of the following major components depending on the scope of work: land acquisition, design, construction, testing, inspection, and other costs such as project management and environmental remediation. Projects can be funded with one source, or in many cases, using multiple funding sources.

Cost Management

Cost management efforts are an integral part of the culture for the team executing and managing the bond program. ITD's systems, policies and procedures, and highly qualified staff provide proper controls, approvals, and reporting of project execution status, costs and funding sources. While industry best practices are used to deliver projects within budget, cost forecasts require diligent revision due to unforeseen conditions, changes to scope, economic forces, and the availability of qualified contractors.

Funds Management

The Information Technology Division (ITD) works proactively to maximize available program funds. Projects are designed not only to comply with school needs, State mandates and District guidelines, but also to take full advantage of eligibility for federal E-rate discounts for services supporting telecommunications and internet access for schools. Successful completion of the bond program can only be achieved through active funds management of a financially unified program. ITD staff manages the use of all funding sources, including application for and management of federal E-rate discounts, in a manner that enables all funding to be utilized and insures compliance with all applicable laws, regulations and policies.

Specific funding sources are allocated and managed to meet the requirements of individual projects and managed programs. Additionally, when a project requires funding but the intended source is not available, projects are sometimes funded with an alternative source until the permanent source of funds is available (for example, the future sale of State bonds). Once the permanent funding source is received, the initial funding source is returned.

Source of Funds

The current bond program is valued at approximately \$789 million. The primary funding sources are local bonds totaling approximately \$695 million, 88% of total program funding. Other sources include Federal E-rate reimbursements and General Fund.

Information Technology Division Bond Program	
Local Bond Funds	
Measure K	\$46,500,002
Measure R	\$368,824,316
Measure Y	\$ 143,714,736
Measure Q	\$ 136,019,062
Total Local Bond Funds	\$695,058,116
Other Funds	
E-rate	\$87,752,784
General	\$5,723,271
Total Other Funds	\$93,476,055
TOTAL SOURCES	\$788,534,171

Uses of Funds

Uses of funds are reported below by project area. Commitments and Expenditures are through September 30, 2015.

Information Technology Division Bond Program			
Project Use of Funds	Current Expected Uses	Commitments	Expenditures
Instructional Technology Initiative	\$162,377,723	\$21,398,455	\$140,979,268
Local Area Network Modernizations *	\$329,277,173	\$92,166,270	\$237,110,903
Radio Systems	\$31,656,991	\$12,175,650	\$19,481,341
Core Network Upgrades **	\$53,439,812	\$12,808,114	\$40,631,698
My Integrated Student Information System	\$133,840,725	\$84,746,205	\$49,094,520
Disaster Recovery and Business Continuity	\$73,941,747	\$52,666,732	\$21,275,015
Virtual Learning Complex Planning	\$4,000,000	\$375,240	\$3,624,760
TOTAL PROGRAM USES OF FUNDS	\$788,534,171	\$276,336,667	\$512,197,504
* Includes LAN Modernization projects funded under ITI and IT Assessment Survey budget			
** Includes ITI Infrastructure projects (email & collaboration, Identity Management System and Data Center Monitoring & Management)			

Budget changes in 2015:

- **ITI:** Increased by \$13,000,000, approved December 9, 2014 in BOE 128-14/15
- **My Integrated Student Information System:** Increased by \$100,220,905. \$12.1M bond +\$275K non-recurring general fund approved December 9, 2014 in BOE 256-14/15, \$8.5M approved April 14, 2015 in BOE 421-14/15 and \$79.6M approved June 9, 2015 in BOE 497-14/15

Management

The Information Technology Division's management team consists of highly skilled program and project professionals with years of experience in deployment and installing of technological solutions. Included on these teams are engineers with extensive experience in the District's information technology infrastructure and data systems. The programs' staff operates on three basic principles:

- Accountability
- Solution-oriented decision processes
- A commitment to continuous improvement

Program Management

The bond program is managed to examine core areas of interest such as planning, program execution, measurement of performance, and rapid deployment of corrective action. Program management further focuses on budget, schedule, and business processes as well as policies and procedures.

To support the execution of core management principles, program management personnel within ITD deliver the following functions and provide the support needed to accomplish the program's goals:

- **Design Oversight** – Coordinate and maintain quality assurance of engineering professionals' efforts to ensure compliance with industry and District specifications, objectives, and policies.
- **Procurement** – When applicable, contract for design and installation services by working with legal and procurement staff to ensure the use of appropriate contracting vehicles and adherence to federal, state, and local laws and policies. Contract types include, but are not limited to, California Multiple Award Schedule (CMAS) contracts, public works, professional services, and other competitively bid procurement contracts.
- **Construction/Installation Management** – Coordinate and maintain quality assurance of installation contractors and in-house technicians. Ensure that specifications, objectives, and policies are utilized; deficiencies and claims are minimized; and all required documentation is completed and delivered to the appropriate District divisions.
- **Cost Management** – Manage programs and budgets to ensure that program resources are optimized and that funds are properly allocated.

Design Guidelines

The LAUSD Project Design Guidelines articulate the basic tenets included in the design of all information technology projects. These are:

- Right-size the solution
- Standardize equipment (where possible) to reduce maintenance and support costs

- Upgrade and replace equipment that is at its “end-of-life” to reduce maintenance costs due to high failure rates
- Design for the long term and consider life cycle costs
- Maximize the use of space by centralizing data, voice, and video systems
- Design for convergence, allowing multiple solutions to be addressed at once, thus reducing installation and long term maintenance cost
- Design for flexibility
- Specify affordable, durable, sustainable materials and equipment

Reporting

ITD provides full disclosure of its methods, data, and implementation performance for the programs of this Strategic Execution Plan with mandated oversight requirements. The following guidelines outline the Division’s reporting standards:

- Establish baseline information on scope, schedule, and budget, then measure current performance against these baseline metrics
- Report to stakeholders in relevant, easy-to-understand reports
- Provide early warning of potential variances from anticipated results so that decision makers are presented with mitigation options in a timely manner
- Post all reports on a District website for ease of distribution

Board of Education and Bond Oversight Committee Reports

Strategic Execution Plan

The annual update outlines the current program status. The plan contains detailed information on projects, including key milestones and schedules, budgets, management and cost controls, and early warning systems. In addition, the annual update identifies last year’s performance data and delineates the remaining program activities.

Status Reports

Quarterly reports are provided detailing baseline information and project status. Items tracked include project start and completion status, projected expenditures and implementation activities, summary status information by project, and other items of interest.

Exception Reports

Exception reports are presented as needed, focusing on potential problems. Examples of situations generating exception reports are:

- A change order on a project exceeding 10% of the original construction award
- A specific information technology project budget exceeding 5% of the baseline cost

2015 STRATEGIC EXECUTION PLAN

EXHIBITS



Deliverables Summary

The sections below provide a brief summary of activities related to the scope, schedule, and budget for each Bond program. Scope refers to activities completed to date and activities yet to be completed. Schedule refers to timeline for completion of remaining activities. Budget refers to the amount of allocated funding expended to date and amount outstanding; all expenditures are through September 30, 2015.

Classroom Technology Modernization Program

Instructional Technology Initiative

Project Scope and Schedule

- All Phase 1 and 2 devices were successfully collected and redistributed from centralized storage last year. Decision and considerations have been made to house devices at each school-site going forward
- Phase 1L and Phase 2B are currently in progress
- Direct support to schools provided by 37 Instructional Technology Facilitators (ITF)
- All Board-approved 1:1 schools have been required to submit, with assistance from ITFs, a School Instructional Technology Plan prior to redistributing or receiving devices for the first time
- All Board-approved 1:1 schools have completed a 6-module course where instructional leadership teams studied topics such as digital citizenship, change management, and instructional technology integration strategies with support from ITFs
- All Board-approved 1:1 schools have a designated Instructional Device Manager (IDM) who has gone through full training focused on asset management
- ITI began accepting requests for support from all schools, providing ITI the opportunity to collect and disaggregate District-wide data on school instructional technology integration needs to plan for targeted professional development opportunities; ITI has become a District-wide resource beyond the original Board-approved schools
- All schools have been asked to submit a 2-page proposal outlining their approach to instructional technology integration
- Digital Citizenship Week was successfully carried out with a signature event held at Valley Academy of Arts and Science, which was comprised of a student panel and featured a Nearpod, an interactive multimedia presentation and assessment tool, component for over 100 students
- The Instructional Technology Initiative Task Force was convened in April 2015, holding weekly meetings with a diverse membership comprised of parents, students, District leaders, and community partners
- All schools have been encouraged to use their testing devices as shared-use devices for instructional technology integration with support from ITI staff
- The ITI Task Force will provide District-wide recommendations for instructional technology integration by April 2016
- ITI will collaborate with ITD to support the Gradebook / Learning Management System pilot across 20 schools starting Spring 2016

Project Budget

The project budget increased by \$13,000,000, approved December 9, 2014 in BOE 128-14/15.

	Budget	Commitments	Expenditures
Instructional Technology Initiative	\$162,377,723	\$21,398,455	\$140,979,268

School Network Modernization Program

Core Network Modernization

Project Scope and Schedule

- Completed email account migration to Microsoft Office 365, providing District staff with larger mailboxes and additional storage space
- ITD has secured verbal agreement from Microsoft for a free, one-year upgrade of the District’s Office 365 licenses from E1 to E3. The E3 license provides additional capabilities. All existing employee and contractor accounts have been converted to the new E3 license
- Provisioned Google Apps accounts for all District Employees (staff/faculty). This service enables staff to collaborate using Google Apps with students and the ability to utilize their single sign-on District account
- Conducted pilot for Self-Service Account Management (SSAM) application at 5 schools. Then, deployed the new SSAM application for students and administrator access. Decommission legacy environments
- Using Data Center Monitoring and Management tool, daily scans of the District’s data center discovers 45,500 network attached devices to proactively provide high availability of network services to schools
- At 70% completion toward goal of monitoring the following systems/processes with the Data Center Monitoring and Management tool:

MiSiS monitoring	Up/down status · School router and MDF switches · Data center network devices/appliances · School classroom switches · Data center network security appliances	URL/Service Port monitoring
Document process/procedure		Aruba Airwave wireless monitoring
Replacement of Nagios/Netinfo functionality		VM Host/Guest event integration/monitoring
Wired Monitoring Tools monitoring		Physical Host monitoring
Welligent monitoring		Event capture of critical alerts from network devices, i.e. temperature warning from router
SSL Certificate monitoring	SAP monitoring	

- Training for new service management (help desk/trouble ticket) system given to 70% of IT user groups and 50% of non-IT user groups
- Wireless Guest Access pilot conducted at select school sites
- Guest Access policies and procedures (Guidelines) have been developed and are now in final review
- Mobile Access Management system used for authentication at 92% (686 of 749) of schools, providing greater network security
- Mobile Access Management (MAM) system on-boards 90% of approved devices. In process of testing new types of devices, including Chromebooks, Amazon Kindle tablets, non-MDM managed iPads and Lenovo Yoga tablets, in MAM system
- IT Staff validated new Wide Area Network Core design and equipment functionality at Cisco Test Lab and Beaudry in preparation for implementation.
- Secondary connection for Internet traffic has been established at Van Nuys Node, doubling available bandwidth to schools. Internet traffic is now distributed between Beaudry and Van Nuys
- 91% (686 of 749) of schools are now monitored by Wireless network monitoring and management system. System also used to monitor the network during Smarter Balance Assessment Consortium (SBAC) field test
- Nine applications added to tool for application monitoring and management system. Several hands on training sessions have been conducted to ensure proper use.
- Installation of Wired Network Monitoring and Management tool at 50% completion
- Initial Video Infrastructure pilot conducted at 3 schools. Additional focus groups with the Division of Instruction and a second pilot are in development.
- Out of Band Management solution selected and approved by Board of Education in March 2015. Ten schools have been identified to participate in pilot
- Received initial order of project equipment for IP Address Planning project
- Architectural design is being drafted to upgrade the Data Center local area network from 1 GB to 40GB. Scope of project has changed from 10GB to 40GB.

Cyber Security Projects:

- Upgraded critical components of the District's security infrastructure to improve performance, capacity and the safety of student and staff data
- Security Analytics system has been installed and initial tuning has been completed. Advanced tuning will be completed by the first quarter of 2016
- 26% (15 of 58) agents installed on production servers for Data Discovery project

The Core Network Modernization Project Schedule is being revised as follows:

Project	Estimated Substantial Completion (Original)	Estimate of Substantial Completion (Revised)	Reason for Revision
Monitoring and Management – Wired & Wireless	Q3 2015	Q3 2016	Identifying the optimal project solution required two (2) procurement processes. Timeline also extended to accommodate ITI
Video Infrastructure	Q1 2016	Q1 2017	<p>Industry consultant helped identify optimal solution, but delayed release of Beta solution impacted the schedule.</p> <p>Tested solution in Beaudry lab, but school site pilot and Division of Instruction’s input is required; Division of Instruction rescheduled several meetings.</p> <p>Capacities of new Learning Management System (LMS) will impact selection of video infrastructure solution; LMS selection was on hold, thereby impacting the schedule</p>
Out of Band Management	Q1 2016	Q4 2016	Original timeline adjusted due to Procurement Services Division’s recommendation to use an independent Invitation For Bid (IFB)
Shared Network Components (WAN Core Upgrades)	Q2 2015	Q4 2016	<p>Timeline extended one (1) month to accommodate implementation of additional equipment</p> <p>Implementation of centralized data center WAN Core components delayed due to prolonged vendor testing of equipment and delayed release of software to support purchased hardware</p> <p>Project plan originally dictated implementation/modification of school site components during summer recess. Due to delays in the implementation of the Data Center components, the summer recess window was missed. Project schedule has been extended to minimize disruption at school sites, as work can only be performed during holidays, off-hours and next summer recess</p>
Data Center Network Upgrades	Q3 2015	Q1 2017	The intended procurement vehicle (C435) was exhausted. New procurement vehicle had to be developed for purchase of solution

Project	Estimated Substantial Completion (Original)	Estimate of Substantial Completion (Revised)	Reason for Revision
Mobile Access Management (Network Access Control)	Q4 2015	Q3 2016	<p>Changing ITI & Email project requirements impacted timeline</p> <p>Issues encountered during student provisioning; since resolved</p> <p>Integration issues with EZ Access discovered during testing</p>
IP Address Planning	Q3 2018	Q1 2019	New procurement vehicle had to be developed for purchase of solution
Email and Collaboration System	Q4 2014	Q2 2016	<p>Accommodated time needed by the Board of Education to finalize Email Archiving (Record Retention) Policy</p> <p>Project schedule was adjusted to accommodate negotiations for upgrade of Microsoft Office to E3 licenses and migration from E1 to E3 licenses</p>
Identity Management System	Q4 2014	Q2 2016	<p>Due to vendor performance. However, fixed price, deliverable based contract has protected the district from cost overruns.</p> <p>Validation, loading and cleansing of student and staff data (nearly 700,000 records) has taken longer than expected</p> <p>Quotes are being procured from an alternate vendor for monitoring and validating the test results for the remaining tasks in order to reduce the possibility of further timeline slips and to lower the risk of impact on production systems.</p>
<p>Infrastructure Monitoring & Management Integrated Data Center Tools</p> <p>Data Center Monitoring & Management (BMC)</p>	Q4 2014	Q2 2016	<p>Project experienced difficulty in identifying qualified external implementation resources. A project management consultant and an additional technical specialist have been hired to assist with the project</p> <p>Additional professional expertise is required for Service Management module to perform integrations and build reports</p>
Cyber Security	Q3 2014	Q2 2016	Project schedule pushed out due to reduced staff availability

	2014-				2015-				2016-2017				2017-				2018-			
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Core Network																				
Monitoring & Management - Wired & Wireless																				
Video Infrastructure																				
School Availability / Out of Band																				
Shared School Network																				
Data Center Network Upgrades																				
Mobile Access																				
IP Address Planning																				
Email and Collaboration																				
Identity Management																				
Data Center Monitoring & Management (BMC)																				
Cyber Security																				

Project Budget

	Budget	Commitments	Expenditures
Core Network Program*	\$53,439,812	\$12,808,114	\$40,631,698

*Includes ITI Infrastructure project budgets (Email & Collaboration, Identity Management and Data Center Monitoring & Management)

Local Area Network Modernization

- Will complete the 24 of 461 remaining school full Network Modernization and Convergence Projects
- Approximately 95 percent of the wireless network modernization projects were complete
- Approximately 98 percent of K-12 schools are connected to the internet with scalable fiber
- 2015 E-rate funded Wired Network Equipment Replacement projects are in progress
(See Appendices for additional information)

Safety, Communications and Security Modernization Program

Radio Systems Program Information

Project Scope and Schedule

- **800 MHz Radio System Re-banding project – In progress**
 - New frequencies assigned by FCC
 - Completed re-banding plan negotiations with Sprint
 - Implementation will begin in mid-November and will be completed by the end of March 2016
 - Currently gathering requirements from users for advanced functionality

Project Budget

	Budget	Commitments	Expenditures
Radio Project	\$31,656,991	\$12,175,650	\$19,481,341

Student Information Systems Optimization Program

My Integrated Student Information System

Project Scope and Schedule

- Received approval of additional funding to sustain the project through June 2016 to correct bugs and functional gaps, collect requirements from business owners and end users, ensure that MiSiS is ready for critical school milestones, continue to stabilize MiSiS and improve performance, provide the functional capabilities needed by schools, and improve the user-interface
- Conducted close to 30 MiSiS focus groups with participants including teachers, counselors, administrators and office staff
- Developed, tested, and released over 3,500 software fixes/enhancements into MiSiS across weekly releases
- Began a pilot of the Parent Access Support System (PASSport)—a one-stop shop for parents and guardians to access student information, including attendance, grades, schedule, and emergency information—with 14 schools in the District
- Began a pilot of an online gradebook that is part of a learning management system provided by a third party software vendor that will be integrated with MiSiS

Project Budget

The project budget increased by \$100,220,905 – \$12.1M bond funds +\$275K non-recurring general funds approved December 9, 2014 in BOE 256-14/15, \$8.5M bond funds approved April 14, 2015 in BOE 421-14/15 and \$79.6M bond funds approved June 9, 2015 in BOE 497-14/15

	Budget	Commitments	Expenditures
My Integrated Student Information System	\$133,840,725	\$84,746,205	\$49,094,520

Disaster Recovery and Business Continuity Program

Disaster Recovery and Business Continuity Project

Project Scope and Schedule

- **Phase 1: Data Recovery – Completed in June 2014**
- **Phase 2: Business Continuity and Disaster – In Progress:**
 - Completed F5 load balancer modernization project
 - Completed site preparation and design for modular data center (POD) site in Van Nuys
 - Decommissioned majority of IBM AIX platform to save power, floor space and costs
 - Decommissioned majority of legacy storage units by migration to HP 3PAR 7400 series
 - Achieved 60% server consolidation on Intel HP C7000 and VMware Platform
 - Decommissioned approximately 90% of end of life servers
 - Secured LA city approvals for civil and electrical plans for construction
 - Transportation Division’s draft business continuity plan completed

Project Budget

	Budget	Commitments	Expenditures
Disaster Recovery and Business Continuity	\$73,941,747	\$52,666,732	\$21,275,015

2015 STRATEGIC EXECUTION PLAN

APPENDICES



Appendix A: Local Area Network Modernization Schedule by School

The table on the following pages shows the project budget and scheduled completion date for local area network modernization projects. Each project includes the following:

- a) Extensive wireless networking to allow for online real-time student assessment and greater accessibility to online learning;
- b) Scalable fiber enabling technicians to "dial up" or "dial down" according to a school's bandwidth needs based on student population;
- c) A single integrated network that meets acceptable performance levels and security requirements; and
- d) A uniform and standards-based network using industry best practices, helping reduce ongoing maintenance and support costs

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
VLADOVIC	5836	109TH ST EL	Q4 2015		CONTRACTOR ON SCHEDULE	
GARCIA	7082	10TH ST EL				
VLADOVIC	5884	112TH ST EL				
VLADOVIC	5863	116TH ST EL				
VLADOVIC	5740	118TH ST EL	Q1 2016		CONTRACTOR ON SCHEDULE	
VLADOVIC	5887	122ND ST EL				
VLADOVIC	7329	232ND PL EL				
MCKENNA	7110	3RD ST EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
MCKENNA	3959	42ND ST EL				
VLADOVIC	3932	49TH ST EL				
MCKENNA	3808	52ND ST EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
MCKENNA	3781	54TH ST EL				
MCKENNA	3795	59TH ST EL				
MCKENNA	6781	6TH AVE EL				
MCKENNA	6644	74TH ST EL				
VLADOVIC	6616	7TH ST EL				
VLADOVIC	5548	92ND ST EL	Q4 2015	**Q1 2016	CONTRACTOR BEHIND SCHEDULE	
VLADOVIC	5582	93RD ST EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR ON SCHEDULE	CONTRACTOR COMPLETED AHEAD OF SCHEDULE
MCKENNA	5521	95TH ST EL				
VLADOVIC	5575	96TH ST EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
VLADOVIC	5534	99TH ST EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
SCHMERELSON	8726	ADDAMS HS				
SCHMERELSON	8507	AGGELER HS	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	2014	ALBION EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	2027	ALDAMA EL	Q4 2015		CONTRACTOR ON SCHEDULE	
MCKENNA	5111	ALEXANDER SCI CTR SC				
RATLIFF	7398	ALTA CALIFORNIA EL				
MCKENNA	2082	ALTA LOMA EL				
GARCIA	6426	AMANECER PC	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
VLADOVIC	2089	AMBLER EL				
RATLIFF	2110	ANATOLA EL				
SCHMERELSON	2117	ANDASOL EL				
MCKENNA	2123	ANGELES MESA EL				
VLADOVIC	7722	ANGELES COMMUNITY ARTS (SOCIAL JUSTICE SCHOOLS: FINE ARTS)				
VLADOVIC	8563	ANGELES COMMUNITY ARTS (SOCIAL JUSTICE SCHOOLS: GLOBAL ISSUES ACADEMY @ DR. MAYA ANGELOU)				
GARCIA	2137	ANN EL	Q3 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
VLADOVIC	2146	ANNALEE EL				
RODRIGUEZ	2151	ANNANDALE EL				
GARCIA	4356	ANTON EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RATLIFF	8609	ARLETA SH	Q2 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	
RODRIGUEZ	2219	ASCOT EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
RODRIGUEZ	2233	ATWATER EL	Q3 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	
MCKENNA	8028	AUDUBON MS				
VLADOVIC	2247	AVALON GARDENS EL	Q1 2016		CONTRACTOR ON SCHEDULE	
VLADOVIC	6886	BACA ARTS ACAD				
MCKENNA	4020	BAKEWELL PC	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
SCHMERELSON	2269	BALBOA G/HA MAG				
MCKENNA	2274	BALDWIN HILLS EL				
VLADOVIC	2288	BANDINI EL				
VLADOVIC	1941	BANNEKER SP ED CTR				
MCKENNA	5562	BARRETT EL				
SCHMERELSON	2335	BECKFORD CHTR ENR ST				
ZIMMER	2342	BEETHOVEN EL				
RODRIGUEZ	8536	BELL SH	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	8543	BELMONT SH	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	2397	BELVEDERE EL				
RATLIFF	2438	BERTRAND EL				
VLADOVIC	8060	BETHUNE MS	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
ZIMMER	1943	BLEND EL				
VLADOVIC	2473	BONITA EL				
RODRIGUEZ	7615	BOYLE HEIGHTS HS				
ZIMMER	2479	BRADDOCK DRIVE EL				
GARCIA	8754	BRAVO MEDICAL MAG				
GARCIA	2493	BREED EL				
VLADOVIC	6867	BRIDGES SCHOOL				
VLADOVIC	2527	BROAD AVE EL				
VLADOVIC	2530	BROADACRES EL				
RATLIFF	3829	BROADOUS EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
ZIMMER	2534	BROADWAY EL				
ZIMMER	2548	BROCKTON EL				
RODRIGUEZ	2589	BRYSON EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
RODRIGUEZ	2603	BUCHANAN EL	Q2 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
MCKENNA	2616	BUDLONG EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
RATLIFF	8612	BURKE HS				
ZIMMER	2704	CALABASH EL				
SCHMERELSON	2706	CALAHAN COMMUNITY CH				
RATLIFF	2726	CAMELLIA EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
MCKENNA	2740	CANFIELD EL				
SCHMERELSON	2753	CANOGA PARK EL				
RATLIFF	2781	CANTERBURY EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
ZIMMER	2795	CANYON EL				
SCHMERELSON	2802	CAPISTRANO EL				
RATLIFF	7401	CARDENAS EL				
VLADOVIC	8090	CARNEGIE MS				
VLADOVIC	2815	CAROLDALE LRNG COMM				
SCHMERELSON	2822	CARPENTER COMM CHTR				
MCKENNA	2939	CARSON-GORE ACADEMY				
MCKENNA	2849	CARTHAY CENTER EL				
SCHMERELSON	2881	CASTLEBAY LN EL				
VLADOVIC	2890	CATSKILL EL				
VLADOVIC	8589	CDS JOHNSTON				
MCKENNA	3002	CHARNOCK ROAD EL				
RATLIFF	3014	CHASE EL				
SCHMERELSON	3027	CHATSWORTH PARK EL				
GARCIA	7640	CHAVEZ EL	Q2 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
RATLIFF	7715	CHAVEZ LA-ARTES				
RATLIFF	7717	CHAVEZ LA-ASE				
RATLIFF	7716	CHAVEZ LA-SJ HUM AC				
RATLIFF	8901	CHAVEZ LA-TCHR PREP (Multiple Schools)				
ZIMMER	3041	CHEREMOYA EL				
MCKENNA	3068	CIENEGA EL				
MCKENNA	3082	CIMARRON EL				
RODRIGUEZ	3096	CITY TERRACE EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
SCHMERELSON	8590	CLEVELAND SH	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
MCKENNA	3123	CLOVER EL				
MCKENNA	8245	COCHRAN MS				
ZIMMER	6342	COEUR D ALENE EL				
GARCIA	3192	COMMONWEALTH EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR ON SCHEDULE	CONTRACTOR COMPLETED AHEAD OF SCHEDULE

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
ZIMMER	2741	COMMUNITY MAG CHT SC				
VLADOVIC	3205	COMPTON EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RATLIFF	5016	COUGHLIN EL				
ZIMMER	3260	COWAN EL				
MCKENNA	3288	CRESCENT HTS L/A/S/J				
VLADOVIC	3302	CRESTWOOD ST EL				
VLADOVIC	8103	CURTISS MS				
RODRIGUEZ	3329	DAHLIA HTS EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
SCHMERELSON	3340	DARBY EL				
SCHMERELSON	3377	DEARBORN EL				
VLADOVIC	3384	DEL AMO EL				
VLADOVIC	3425	DENKER EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
SCHMERELSON	3438	DIXIE CYN COMM CHTR				
VLADOVIC	3452	DOLORES EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
VLADOVIC	3466	DOMINGUEZ EL				
RODRIGUEZ	3479	DORRIS PLACE EL	Q3 2015	**Q1 2016	CONTRACTOR BEHIND SCHEDULE	
RATLIFF	3493	DYER EL				
VLADOVIC	7667	DYMALLY SH				
RODRIGUEZ	3507	EAGLE ROCK EL				
RATLIFF	3541	EL DORADO EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
SCHMERELSON	3545	EL ORO WAY CHTR CES				
RODRIGUEZ	3562	EL SERENO EL	Q2 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	CONTRACTOR COMPLETED AHEAD OF SCHEDULE
RODRIGUEZ	3575	ELYSIAN HEIGHTS EL	Q3 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	CONTRACTOR COMPLETED ON SCHEDULE
ZIMMER	3616	ENCINO CHARTER EL				
RODRIGUEZ	6873	ESCALANTE EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	3220	ESCUTIA PC	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
VLADOVIC	3640	ESHELMAN EL				
GARCIA	2383	ESPERANZA EL				
VLADOVIC	2942	ESTRELLA EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RATLIFF	3699	EVERGREEN EL	Q3 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	
RATLIFF	3712	FAIR EL				
ZIMMER	3726	FAIRBURN EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
ZIMMER	8621	FAIRFAX SH				
GARCIA	3740	FARMDALE EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
VLADOVIC	8127	FLEMING MS				
VLADOVIC	3890	FLORENCE EL				

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
VLADOVIC	5781	FLOURNOY EL				
ZIMMER	4027	FULLBRIGHT EL				
RATLIFF	8142	FULTON COLLEGE PREP	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	8151	GAGE MS	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
RATLIFF	4055	GARDEN GROVE EL				
RODRIGUEZ	4082	GARVANZA EL	Q3 2015	**Q1 2016	CONTRACTOR BEHIND SCHEDULE	
GARCIA	3426	GARZA PC	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	4096	GATES EL	Q3 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	CONTRACTOR COMPLETED ON SCHEDULE
SCHMERELSON	4110	GAULT EL				
SCHMERELSON	4117	GERMAIN ACAD AA	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	4137	GLEN ALTA EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
VLADOVIC	8160	GOMPERS MS				
VLADOVIC	4219	GRAHAM EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
SCHMERELSON	4233	GRANADA COMMUNITY CH	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
ZIMMER	4247	GRAND VIEW EL				
RODRIGUEZ	4260	GRANT EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
VLADOVIC	4274	GRAPE EL				
GARCIA	2385	GRATTS LA FOR YS				
RATLIFF	8816	GREY HS				
GARCIA	4301	GRIFFIN EL				
VLADOVIC	5849	GRIFFITH JOYNER EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
VLADOVIC	4315	GULF EL				
RATLIFF	4329	HADDON EL	Q2 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
SCHMERELSON	8169	HALE CHARTER ACADEMY	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
VLADOVIC	4342	HALLDALE EL				
GARCIA	6274	HAMASAKI EL				
SCHMERELSON	4349	HAMLIN CA				
ZIMMER	4397	HANCOCK PARK EL				
VLADOVIC	4425	HARBOR CITY EL				
SCHMERELSON	4445	HART ST EL				
MCKENNA	8170	HARTE PREP MS				
MCKENNA	8713	HAWKINS SH C/DAGS (Multiple Schools)				
MCKENNA	7665	HAWKINS SH CHAS				
MCKENNA	7666	HAWKINS SH RISE				
SCHMERELSON	4473	HAYNES CES	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
SCHMERELSON	8174	HENRY MS				

**LAN MODERNIZATION, HIGH DENSITY WIRELESS AND BANDWIDTH SCHEDULE
(ALPHA LIST)**

BOARD MEMBER	LOC CODE	SITE NAME	2014/15 ESTIMATED SUBSTANTIAL COMPLETION	2014/15 ESTIMATED/ACTUAL COMPLETION DATES OF 9/8/15	Q2 LAN MOD UPDATE NOTE	Q4 LAN MOD UPDATE NOTE
RATLIFF	4515	HERRICK EL	Q2 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
MCKENNA	4528	HILLCREST DR EL				
GARCIA	4534	HILLSIDE EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
ZIMMER	8693	HOLLYWOOD SH				
RODRIGUEZ	4562	HOLMES EL				
RODRIGUEZ	4575	HOOPER EL				
RODRIGUEZ	4576	HOOPER PC	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	4589	HOOVER EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	6920	HOPE EL	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
RATLIFF	4603	HUBBARD EL	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
GARCIA	2944	HUERTA EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
GARCIA	4616	HUMPHREYS EL				
GARCIA	4630	HUNTINGTON DR EL				
RODRIGUEZ	2391	HUNTINGTON PARK EL	Q4 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	8700	HUNTINGTON PARK SH	Q4 2014	TESTED AND ACCEPTED	CONTRACTOR COMPLETED BEHIND SCHEDULE	
RODRIGUEZ	8701	INTERNATIONAL ST LC				
RODRIGUEZ	4671	IVANHOE EL				
RODRIGUEZ	8714	JEFFERSON SH	Q3 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED ON SCHEDULE	
GARCIA	2943	JONES EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	
RODRIGUEZ	7821	JORDAN SH				
SCHMERELSON	4692	JUSTICE ST ACAD CHTR				
ZIMMER	4699	KENTER CANYON EL				
ZIMMER	4712	KENTWOOD EL				
GARCIA	2701	KIM EL	Q4 2015		CONTRACTOR ON SCHEDULE	
RODRIGUEZ	6179	KINGSLEY EL	Q2 2015	**Q4 2015	CONTRACTOR BEHIND SCHEDULE	
SCHMERELSON	4762	KNOLLWOOD PREP ACAD				
VLADOVIC	6869	KNOX EL	Q1 2015	TESTED AND ACCEPTED	CONTRACTOR COMPLETED AHEAD OF SCHEDULE	

Appendix B: Network Equipment Upgrade Projects

Projects approved October 14, 2014 in BOE 094-14/15. The table on the following pages shows the project budget and scheduled completion date for network equipment upgrade projects that are partially funded. Included are current funds available. E-rate applications will be filed with estimated additional E-rate funds.

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
VLADOVIC	5857	107TH ST EL	5/26/2010	Q3 2017	\$ 217,356	2016
GARCIA	7082	10TH ST EL	9/21/2010	Q4 2017	\$ 169,448	2016
VLADOVIC	5884	112TH ST EL	4/29/2010	Q3 2017	\$ 108,088	2016
VLADOVIC	5887	122ND ST EL	5/13/2010	Q3 2017	\$ 165,672	2016
MCKENNA	5877	135TH ST EL	12/18/2007	Q4 2016	\$ 191,868	2015
VLADOVIC	5822	153RD ST EL	10/25/2007	Q2 2016	\$ 87,320	2015
VLADOVIC	5808	156TH ST EL	10/29/2008	Q4 2016	\$ 92,040	2015
VLADOVIC	3767	15TH ST EL	12/30/2009	Q3 2017	\$ 127,440	2016
VLADOVIC	5753	186TH ST EL	8/17/2007	Q2 2016	\$ 198,948	2015
GARCIA	3836	1ST ST EL	3/29/2007	Q4 2016	\$ 176,292	2015
GARCIA	7274	20TH ST EL	6/12/2007	Q4 2016	\$ 138,768	2015
MCKENNA	7301	24TH ST EL	5/11/2009	Q2 2017	\$ 133,104	2016
GARCIA	7288	28TH ST EL	1/31/2008	Q4 2016	\$ 189,508	2015
GARCIA	6575	2ND ST EL	3/12/2008	Q4 2016	\$ 100,536	2015
MCKENNA	7137	32ND/USC PER ART MAG	5/25/2004	Q2 2016	\$ 259,364	2015
MCKENNA	3959	42ND ST EL	8/3/2010	Q4 2017	\$ 67,496	2016
VLADOVIC	3932	49TH ST EL	7/19/2010	Q3 2017	\$ 198,004	2016
GARCIA	3973	4TH ST EL	11/20/2006	Q2 2016	\$ 234,820	2015
MCKENNA	3795	59TH ST EL	9/22/2010	Q4 2017	\$ 94,400	2016
MCKENNA	6808	61ST ST EL	12/18/2008	Q4 2016	\$ 138,060	2015
VLADOVIC	6822	66TH ST EL	11/20/2008	Q4 2016	\$ 217,120	2015
VLADOVIC	6795	68TH ST EL	12/23/2009	Q3 2017	\$ 202,016	2016
MCKENNA	6781	6TH AVE EL	12/2/2010	Q4 2017	\$ 163,784	2016
MCKENNA	6644	74TH ST EL	6/1/2010	Q3 2017	\$ 131,452	2016
VLADOVIC	6630	75TH ST EL	12/24/2008	Q4 2016	\$ 252,284	2015
MCKENNA	5521	95TH ST EL	5/24/2006	Q3 2016	\$ 217,356	2015
GARCIA	8009	ADAMS MS	6/30/2008	Q4 2016	\$ 233,876	2015
GARCIA	2041	ALEXANDRIA EL	7/7/2005	Q2 2016	\$ 167,324	2015
KAYSER	2068	ALLESANDRO EL	8/16/2005	Q2 2016	\$ 106,200	2015
RATLIFF	7398	ALTA CALIFORNIA EL	3/25/2010	Q3 2017	\$ 207,444	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
MCKENNA	2082	ALTA LOMA EL	11/18/2010	Q4 2017	\$ 153,400	2016
GARCIA	2369	AMBSDR-GLOBAL EDUC (see 7771)	7/15/2009	Q2 2017	\$ 96,760	2016
GARCIA	7771	AMBSDR-GLOBAL LDSHP	7/15/2009	Q2 2017	\$ 155,288	2016
VLADOVIC	2096	AMESTOY EL	7/13/2007	Q2 2016	\$ 185,732	2015
MCKENNA	2123	ANGELES MESA EL	9/1/2010	Q4 2017	\$ 98,884	2016
VLADOVIC	8852	ANGEL'S GATE HS	1/25/2010	Q3 2017	\$ 21,240	2016
KAYSER	2151	ANNANDALE EL	12/16/2010	Q4 2017	\$ 71,744	2016
GARCIA	4356	ANTON EL	9/14/2009	Q2 2017	\$ 202,252	2016
RATLIFF	2164	APPERSON EL	7/27/2009	Q2 2017	\$ 105,256	2016
KAYSER	2178	ARAGON EL	6/25/2010	Q3 2017	\$ 99,356	2016
MCKENNA	2192	ARLINGTON HTS EL	9/20/2004	Q2 2016	\$ 144,432	2015
RATLIFF	2205	ARMINTA EL	9/9/2008	Q4 2016	\$ 118,236	2015
GARCIA	4322	ARROYO SECO MUSM SCI	3/8/2007	Q3 2016	\$ 122,720	2015
MCKENNA	8028	AUDUBON MS	9/9/2010	Q4 2017	\$ 168,268	2016
VLADOVIC	4685	AURORA EL	6/19/2005	Q2 2016	\$ 115,876	2015
VLADOVIC	8531	AVALON HS	7/20/2009	Q2 2017	\$ 27,140	2016
VLADOVIC	6886	BACA ARTS ACAD	7/21/2010	Q3 2017	\$ 159,772	2016
ZIMMER	8038	BANCROFT MS	8/5/2010	Q4 2017	\$ 204,612	2016
VLADOVIC	2288	BANDINI EL	4/21/2010	Q3 2017	\$ 86,140	2016
VLADOVIC	8529	BANNING SH (multiple schools)	9/16/2009	Q2 2017	\$ 608,880	2016
MCKENNA	5562	BARRETT EL	6/16/2010	Q3 2017	\$ 245,204	2016
VLADOVIC	2315	BARTON HILL EL	2/11/2008	Q4 2016	\$ 170,628	2015
GALATZAN	2323	BASSETT EL	5/20/2005	Q2 2016	\$ 210,276	2015
RATLIFF	2329	BEACHY EL	7/18/2005	Q2 2016	\$ 140,420	2015
KAYSER	8536	BELL SH	1/21/2005	Q3 2016	\$ 809,480	2015
RATLIFF	3577	BELLINGHAM EL	8/30/2010	Q4 2017	\$ 138,532	2016
GARCIA	8543	BELMONT SH	8/9/2005	Q3 2016	\$ 228,920	2015
GARCIA	2397	BELVEDERE EL	11/16/2010	Q4 2017	\$ 202,488	2016
GARCIA	8047	BELVEDERE MS	6/8/2010	Q3 2017	\$ 320,016	2016
GARCIA	8057	BERENDO MS	6/4/2010	Q3 2017	\$ 245,912	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
ZIMMER	8696	BERNSTEIN SH (multiple schools)	8/14/2008	Q4 2016	\$ 270,220	2015
GALATZAN	2470	BLYTHE EL	7/3/2008	Q2 2016	\$ 110,212	2015
MCKENNA	7123	BRADLEY GLBL AWR MAG	8/11/2004	Q2 2016	\$ 94,164	2015
RATLIFF	2486	BRAINARD EL	4/3/2008	Q4 2016	\$ 44,604	2015
GARCIA	8754	BRAVO MEDICAL MAG	11/5/2010	Q4 2017	\$ 439,432	2016
ZIMMER	2507	BRENTWOOD SCI MAG	1/18/2005	Q3 2016	\$ 260,308	2015
GARCIA	2521	BRIDGE EL	12/14/2009	Q3 2017	\$ 69,148	2016
MCKENNA	7164	BRIGHT EL	3/1/2007	Q3 2016	\$ 170,864	2015
ZIMMER	2534	BROADWAY EL	12/3/2010	Q4 2017	\$ 107,144	2016
GARCIA	2562	BROOKLYN AVE EL	2/1/2008	Q4 2016	\$ 145,140	2015
GALATZAN	2630	BURBANK EL	9/8/2005	Q2 2016	\$ 91,804	2015
KAYSER	8066	BURBANK MS	6/19/2009	Q2 2017	\$ 216,884	2016
MCKENNA	8075	BURROUGHS MS	2/23/2010	Q3 2017	\$ 440,140	2016
RATLIFF	2658	BURTON EL	6/10/2005	Q2 2016	\$ 106,908	2015
KAYSER	2671	BUSHNELL WAY EL	8/30/2005	Q2 2016	\$ 88,264	2015
RATLIFF	8080	BYRD MS	6/26/2007	Q4 2016	\$ 404,268	2015
VLADOVIC	2685	CABRILLO EL	10/30/2009	Q2 2017	\$ 98,176	2016
GARCIA	2699	CAHUENGA EL	6/8/2010	Q3 2017	\$ 145,612	2016
ZIMMER	2712	CALVERT EL	4/12/2005	Q3 2016	\$ 88,028	2015
RATLIFF	2767	CANTARA EL	3/2/2007	Q3 2016	\$ 139,004	2015
RATLIFF	7401	CARDENAS EL	10/21/2009	Q2 2017	\$ 139,948	2016
VLADOVIC	8090	CARNEGIE MS	10/18/2010	Q4 2017	\$ 207,444	2016
VLADOVIC	2836	CARSON EL	4/26/2007	Q4 2016	\$ 164,492	2015
VLADOVIC	8575	CARSON SH (multiple schools)	1/13/2009	Q2 2017	\$ 620,680	2016
MCKENNA	2939	CARSON-GORE ACADEMY	6/21/2010	Q3 2017	\$ 154,816	2016
KAYSER	8094	CARVER MS	3/31/2010	Q3 2017	\$ 249,452	2016
GARCIA	2863	CASTELAR EL	12/17/2008	Q4 2016	\$ 152,928	2015
MCKENNA	2877	CASTLE HTS EL	8/9/2005	Q3 2016	\$ 133,340	2015
GARCIA	8045	CASTRO MS	8/9/2005	Q3 2016	\$ 111,156	2015
ZIMMER	8670	CDS ALONZO	8/14/2008	Q4 2016	\$ 53,100	2015

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
VLADOVIC	7761	CDS JOHNSON (DOROTHY V.)	NO	Q4 2017	\$ 19,116	2016
GALATZAN	8092	CDS LONDON	7/5/2005	Q3 2016	\$ 22,534	2015
GARCIA	8991	Central TRI-C (multiple sites)	varies	Q2 2016	\$ 113,612	2015
GARCIA	8580	CENTRAL HS (multiple sites)	6/27/2007	Q4 2016	\$ 235,886	2015
MCKENNA	2945	CENTURY PARK EL	10/7/2004	Q2 2016	\$ 98,884	2015
GALATZAN	2959	CHANDLER EL	10/23/2009	Q2 2017	\$ 133,812	2016
VLADOVIC	2986	CHAPMAN EL	4/18/2007	Q4 2016	\$ 105,256	2015
RATLIFF	7715	CHAVEZ LA ARTES (multiple schools)	12/14/2010	Q4 2017	\$ 477,664	2016
ZIMMER	3041	CHEREMOYA EL	8/27/2010	Q4 2017	\$ 68,676	2016
MCKENNA	8688	CHEVIOT HILLS HS	10/20/2010	Q4 2017	\$ 22,534	2016
MCKENNA	3068	CIENEGA EL	6/15/2010	Q3 2017	\$ 163,784	2016
GARCIA	8801	CITY OF ANGELS (multiple sites)	varies	Q2 2016	\$ 760,032	2015
KAYSER	3110	CLIFFORD EL	7/3/2007	Q4 2016	\$ 31,860	2015
GARCIA	8062	CLINTON MS	7/29/2005	Q3 2016	\$ 210,276	2015
RATLIFF	3137	COHASSET EL	8/10/2005	Q2 2016	\$ 131,216	2015
GALATZAN	3151	COLDWATER CYN EL	2/21/2007	Q2 2016	\$ 181,484	2015
GALATZAN	3164	COLFAX EL	7/27/2009	Q2 2017	\$ 154,108	2016
MCKENNA	3178	COLISEUM EL	5/25/2004	Q2 2016	\$ 61,124	2015
RATLIFF	7432	COLUMBUS AVE EL	4/8/2008	Q4 2016	\$ 141,128	2015
GALATZAN	8102	COLUMBUS MS	4/29/2010	Q3 2017	\$ 186,440	2016
GARCIA	8517	CONTRERAS LC (multiple schools)	5/28/2006	Q3 2016	\$ 421,968	2015
KAYSER	3219	CORONA EL	3/13/2007	Q3 2016	\$ 232,224	2015
GARCIA	8516	CORTINES SCH OF VPA	1/21/2009	Q2 2017	\$ 392,704	2016
MCKENNA	8596	CRENSHAW SH	8/31/2010	Q4 2017	\$ 252,284	2016
VLADOVIC	8104	DANA MS	9/29/2009	Q2 2017	\$ 353,056	2016
GALATZAN	3335	DANUBE EL	12/14/2007	Q4 2016	\$ 109,504	2015
KAYSER	3356	DAYTON HEIGHTS EL	5/20/2008	Q4 2016	\$ 136,880	2015
VLADOVIC	2301	DE LA TORRE JR EL	12/14/2005	Q2 2016	\$ 168,504	2015
GARCIA	2386	DEL OLMO EL	6/6/2005	Q2 2016	\$ 185,496	2015
KAYSER	3397	DELEVAN DRIVE EL	2/3/2009	Q2 2017	\$ 120,360	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
GARCIA	3315	DENA EL	3/14/2008	Q4 2016	\$ 109,268	2015
VLADOVIC	8110	DODSON MS	6/28/2010	Q3 2017	\$ 444,388	2016
VLADOVIC	3466	DOMINGUEZ EL	5/21/2010	Q3 2017	\$ 136,644	2016
MCKENNA	8600	DORSEY SH	1/20/2005	Q3 2016	\$ 278,480	2015
GARCIA	8738	DOWNTWN BUSINESS MAG	2/8/2005	Q2 2016	\$ 246,856	2015
VLADOVIC	8112	DREW MS	1/29/2009	Q2 2017	\$ 239,304	2016
KAYSER	8614	EAGLE ROCK HS	8/16/2010	Q4 2017	\$ 606,756	2016
VLADOVIC	8578	EAGLE TREE CONTN HS	1/21/2009	Q2 2017	\$ 34,220	2016
GALATZAN	8788	EARHART HS	12/13/2010	Q4 2017	\$ 28,792	2016
RATLIFF	8607	EAST VALLEY SH	6/30/2006	Q3 2016	\$ 188,092	2015
GARCIA	3521	EASTMAN EL	4/16/2007	Q4 2016	\$ 247,564	2015
VLADOVIC	8113	EDISON MS	3/19/2009	Q2 2017	\$ 282,964	2016
RATLIFF	8770	EINSTEIN HS	1/20/2009	Q2 2017	\$ 16,992	2016
GARCIA	8118	EL SERENO MS	5/6/2009	Q2 2017	\$ 308,216	2016
KAYSER	3548	ELIZABETH LC	9/23/2010	Q4 2017	\$ 421,496	2016
MCKENNA	8930	ELLINGTON HS	6/14/2001	Q2 2016	\$ 27,848	2015
GALATZAN	3589	EMELITA EL	2/8/2008	Q4 2016	\$ 105,964	2015
ZIMMER	8123	EMERSON MS	7/24/2007	Q4 2016	\$ 139,948	2015
GALATZAN	3610	ENADIA EL	10/28/2008	Q4 2016	\$ 57,820	2015
GALATZAN	3630	ERWIN EL	8/1/2005	Q2 2016	\$ 176,528	2015
KAYSER	6873	ESCALANTE EL	2/26/2010	Q3 2017	\$ 147,736	2016
GARCIA	2383	ESPERANZA EL	10/18/2010	Q4 2017	\$ 184,316	2016
VLADOVIC	2942	ESTRELLA EL	2/19/2010	Q3 2017	\$ 131,688	2016
GARCIA	3671	EUCLID EL	5/21/2007	Q4 2016	\$ 217,120	2015
RATLIFF	8876	EVERGREEN HS	7/22/2010	Q3 2017	\$ 24,780	2016
RATLIFF	3753	FERNANGELES EL	9/13/2005	Q3 2016	\$ 169,684	2015
VLADOVIC	3822	FIGUEROA EL	6/15/2010	Q3 2017	\$ 109,504	2016
KAYSER	3849	FISHBURN EL	8/16/2004	Q3 2016	\$ 149,388	2015
KAYSER	3877	FLETCHER DR EL	7/10/2008	Q4 2016	\$ 92,040	2015
KAYSER	3918	FORD BLVD EL	5/10/2007	Q4 2016	\$ 295,236	2015

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
MCKENNA	8132	FOSHAY LC	4/10/2009	Q2 2017	\$ 467,752	2016
KAYSER	3986	FRANKLIN EL	3/1/2005	Q3 2016	\$ 118,708	2015
KAYSER	8643	FRANKLIN SH	7/6/2005	Q3 2016	\$ 358,720	2015
VLADOVIC	8650	FREMONT SH	4/7/2009	Q2 2017	\$ 549,644	2016
VLADOVIC	4014	FRIES EL	10/23/2008	Q2 2016	\$ 129,800	2015
GALATZAN	8137	FROST MS	8/12/2009	Q2 2017	\$ 363,912	2016
VLADOVIC	4041	GARDENA EL	3/27/2008	Q2 2016	\$ 127,204	2015
VLADOVIC	8664	GARDENA SH	5/23/2005	Q3 2016	\$ 389,400	2015
ZIMMER	4068	GARDNER EL	7/20/2005	Q3 2016	\$ 104,548	2015
GARCIA	8679	GARFIELD SH	6/25/2010	Q3 2017	\$ 575,368	2016
KAYSER	4123	GLASSELL PARK EL	6/27/2005	Q2 2016	\$ 110,212	2015
RATLIFF	4130	GLEDHILL EL	6/24/2005	Q3 2016	\$ 122,956	2015
KAYSER	4164	GLENFELIZ BLVD EL	5/29/2007	Q4 2016	\$ 88,028	2015
RATLIFF	4192	GLENWOOD EL	6/30/2005	Q2 2016	\$ 108,324	2015
VLADOVIC	8160	GOMPERS MS	10/11/2010	Q4 2017	\$ 181,012	2016
GALATZAN	8683	GRANT SH	7/5/2005	Q3 2016	\$ 517,548	2015
RATLIFF	4295	GRIDLEY EL	6/21/2005	Q2 2016	\$ 171,100	2015
GARCIA	8168	GRIFFITH MS	5/7/2009	Q2 2017	\$ 337,244	2016
MCKENNA	8686	HAMILTON SH-COMPLEX	10/28/2010	Q4 2017	\$ 709,888	2016
VLADOVIC	8518	HARBOR TCHR PREP ACD	1/1/2004	Q3 2016	\$ 102,896	2015
RATLIFF	4431	HARDING EL	10/28/2009	Q2 2017	\$ 118,236	2016
KAYSER	4681	HARMONY EL	11/15/2010	Q4 2017	\$ 170,864	2016
GARCIA	4438	HARRISON EL	3/20/2008	Q4 2016	\$ 128,620	2015
GARCIA	2042	HARVARD EL	5/7/2005	Q2 2016	\$ 120,596	2015
GALATZAN	4452	HASKELL EL	1/30/2008	Q4 2016	\$ 134,048	2015
VLADOVIC	4466	HAWAIIAN EL	7/15/2010	Q3 2017	\$ 157,648	2016
RATLIFF	4493	HAZELTINE EL	5/10/2007	Q4 2016	\$ 177,472	2015
KAYSER	4507	HELIOTROPE EL	2/5/2004	Q2 2016	\$ 180,540	2015
ZIMMER	4521	HESBY OAKS SCHOOL	8/14/2006	Q3 2016	\$ 133,104	2015
KAYSER	8645	HIGHLAND PARK HS	3/27/2009	Q2 2017	\$ 19,588	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
GARCIA	4548	HOBART BLVD EL	9/27/2004	Q2 2016	\$ 175,112	2015
GARCIA	8179	HOLLENBECK MS	5/6/2010	Q3 2017	\$ 299,956	2016
ZIMMER	6549	HOLLYWOOD PC	6/4/2005	Q2 2016	\$ 49,796	2015
GALATZAN	8182	HOLMES MS	9/16/2010	Q4 2017	\$ 367,216	2016
VLADOVIC	8652	HOPE HS	3/20/2009	Q2 2017	\$ 22,892	2016
GARCIA	2944	HUERTA EL	6/9/2010	Q3 2017	\$ 112,336	2016
KAYSER	2375	HUGHES EL	2/22/2007	Q3 2016	\$ 213,580	2015
KAYSER	8700	HUNTINGTON PARK SH	9/9/2004	Q3 2016	\$ 476,720	2015
KAYSER	6880	INDEPENDENCE EL	8/9/2004	Q2 2016	\$ 195,644	2015
GALATZAN	8559	INDEPENDENCE HS	6/3/2008	Q4 2016	\$ 31,860	2015
KAYSER	8189	IRVING MS	3/19/2009	Q2 2017	\$ 144,904	2016
GARCIA	2943	JONES EL	10/13/2009	Q2 2017	\$ 86,612	2016
MCKENNA	5112	JONES PC	1/30/2008	Q4 2016	\$ 36,580	2015
GARCIA	8777	KAHLO HS	10/20/2006	Q2 2016	\$ 36,580	2015
KAYSER	4696	KENNEDY EL	3/12/2007	Q3 2016	\$ 103,840	2015
GALATZAN	8725	KENNEDY SH	3/3/2005	Q3 2016	\$ 500,084	2015
GALATZAN	4726	KESTER EL	1/11/2005	Q3 2016	\$ 220,896	2015
GARCIA	8064	KIM ACADEMY	8/28/2008	Q4 2016	\$ 194,936	2015
MCKENNA	6534	KING JR EL	8/30/2004	Q3 2016	\$ 117,056	2015
KAYSER	8208	KING MS	6/8/2009	Q2 2017	\$ 393,412	2016
VLADOVIC	8727	KING-DREW MED MAG	12/15/2009	Q3 2017	\$ 379,252	2016
GALATZAN	4760	KITTRIDGE EL	4/16/2007	Q2 2016	\$ 191,868	2015
VLADOVIC	6869	KNOX EL	10/23/2009	Q2 2017	\$ 224,672	2016
RATLIFF	7399	KORENSTEIN EL	10/19/2009	Q2 2017	\$ 136,408	2016
GARCIA	8501	LA HS ARTS @RFK	7/15/2009	Q2 2017	\$ 97,232	2016
GARCIA	8210	LA TEACHER PREP ACAD	8/9/2005	Q3 2016	\$ 57,820	2015
GARCIA	2543	LAFAYETTE PARK PC	8/19/2010	Q4 2017	\$ 33,512	2016
KAYSER	4767	LANE EL	5/18/2004	Q2 2016	\$ 93,692	2015
GARCIA	1919	LANTERMAN HS	3/9/2007	Q3 2016	\$ 48,852	2015
GALATZAN	8217	LAWRENCE MS	10/30/2009	Q2 2017	\$ 349,044	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

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ZIMMER	8226	LE CONTE MS	7/28/2010	Q3 2017	\$ 209,804	2016
GALATZAN	1908	LEICHMAN SP ED CTR	3/28/2007	Q4 2016	\$ 46,964	2015
KAYSER	5170	LEXINGTON AVE PC	4/19/2005	Q2 2016	\$ 54,516	2015
KAYSER	4863	LIBERTY EL	2/8/2007	Q3 2016	\$ 144,196	2015
GARCIA	8058	LIECHTY MS	11/13/2006	Q3 2016	\$ 279,188	2015
RATLIFF	4870	LIGGETT EL	4/11/2007	Q4 2016	\$ 179,832	2015
GARCIA	8729	LINCOLN SH (multiple schools)	4/12/2010	Q3 2017	\$ 379,960	2016
GALATZAN	1947	LOKRANTZ SP ED CTR	4/4/2007	Q4 2016	\$ 25,724	2015
KAYSER	4918	LOMA VISTA EL	4/5/2007	Q4 2016	\$ 201,544	2015
GALATZAN	8685	LONDON HS	9/25/2008	Q4 2016	\$ 29,500	2015
KAYSER	4959	LORETO EL	9/28/2005	Q3 2016	\$ 88,736	2015
RATLIFF	4973	LORNE EL	10/8/2009	Q2 2017	\$ 138,532	2016
RATLIFF	1948	LOWMAN SP ED CTR	3/31/2010	Q3 2017	\$ 34,456	2016
ZIMMER	5014	LOYOLA VILLAGE EL	3/31/2009	Q2 2017	\$ 91,096	2016
GALATZAN	1959	LULL SP ED CTR	2/16/2007	Q3 2016	\$ 27,848	2015
GARCIA	2544	MACARTHUR PARK VPA	8/18/2010	Q4 2017	\$ 127,912	2016
MCKENNA	5113	MACK EL	6/4/2005	Q2 2016	\$ 99,356	2015
RATLIFF	8228	MACLAY MS	6/29/2009	Q2 2017	\$ 206,028	2016
KAYSER	3210	MADISON EL	2/28/2006	Q3 2016	\$ 146,556	2015
GALATZAN	8230	MADISON MS	9/24/2005	Q3 2016	\$ 395,772	2015
GARCIA	7220	MAPLE PC	6/6/2004	Q2 2016	\$ 50,268	2015
GARCIA	5137	MARIANNA EL	1/30/2007	Q3 2016	\$ 92,276	2015
ZIMMER	8235	MARINA DEL REY MS	10/4/2010	Q4 2017	\$ 168,976	2016
ZIMMER	8425	MARK TWAIN MS	8/27/2010	Q4 2017	\$ 161,660	2016
KAYSER	8750	MARSHALL SH	6/8/2005	Q3 2016	\$ 599,912	2015
KAYSER	5205	MAYBERRY EL	7/22/2008	Q4 2016	\$ 75,520	2015
VLADOVIC	6658	MC KINLEY EL	8/4/2004	Q3 2016	\$ 181,012	2015
GARCIA	8611	MENDEZ LC MATH/SCI	6/25/2009	Q2 2017	\$ 155,996	2016
GARCIA	8757	METROPOLITAN HS	1/29/2007	Q3 2016	\$ 37,288	2015
MCKENNA	3500	MIDCITY PRESCOTT MAG	9/7/2010	Q4 2017	\$ 59,472	2016

NETWORK EQUIPMENT UPGRADE PROJECTS

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KAYSER	5301	MIDDLETON EL	8/27/2004	Q3 2016	\$ 269,040	2015
KAYSER	5302	MIDDLETON PC	6/3/2005	Q2 2016	\$ 58,056	2015
GALATZAN	8238	MILLIKAN MS	8/11/2010	Q4 2017	\$ 518,020	2016
VLADOVIC	8666	MONETA HS	9/28/2009	Q2 2017	\$ 22,534	2016
GALATZAN	5342	MONLUX EL	7/19/2005	Q3 2016	\$ 167,088	2015
KAYSER	5384	MONTE VISTA EL	9/1/2005	Q2 2016	\$ 112,100	2015
GARCIA	8677	MONTEREY HS	12/16/2008	Q4 2016	\$ 13,688	2015
ZIMMER	7402	MOSK EL	7/15/2010	Q3 2017	\$ 123,192	2016
RATLIFF	8240	MOUNT GLEASON MS	5/25/2007	Q4 2016	\$ 238,124	2015
RATLIFF	5404	MOUNTAIN VIEW EL	11/12/2004	Q3 2016	\$ 83,544	2015
RATLIFF	8916	MT LUKENS HS	7/14/2009	Q2 2017	\$ 22,420	2016
VLADOVIC	8779	NARBONNE SH	3/10/2008	Q4 2016	\$ 671,656	2015
VLADOVIC	8838	NARBONNE SH HARTS LA	3/10/2008	Q4 2016	\$ 90,152	2015
KAYSER	5466	NEVIN EL	10/11/2004	Q2 2016	\$ 149,152	2015
RATLIFF	5479	NEWCASTLE EL	3/13/2007	Q3 2016	\$ 97,940	2015
KAYSER	8264	NIGHTINGALE MS	7/8/2009	Q2 2017	\$ 194,228	2016
RATLIFF	5603	NOBLE EL	9/29/2005	Q3 2016	\$ 205,792	2015
MCKENNA	5630	NORMANDIE EL	2/15/2007	Q3 2016	\$ 214,288	2015
GALATZAN	8513	NORTHRIDGE ACAD SH	1/25/2010	Q3 2017	\$ 256,768	2016
GALATZAN	8283	NORTHRIDGE MS	8/18/2010	Q4 2017	\$ 193,520	2016
GARCIA	5699	NORWOOD EL	10/4/2004	Q3 2016	\$ 153,872	2015
MCKENNA	6868	OBAMA GLBL PREP ACAD	5/14/2010	Q3 2017	\$ 202,960	2016
KAYSER	5153	ORCHARD ACADEMIES (multiple schools)	5/12/2010	Q3 2017	\$ 216,412	2016
KAYSER	4642	PACIFIC BLVD SCHOOL	5/1/2007	Q4 2016	\$ 142,780	2015
RATLIFF	8610	PANORAMA SH	4/3/2006	Q3 2016	\$ 352,820	2015
KAYSER	6005	PARK AVE EL	5/3/2010	Q3 2017	\$ 143,724	2016
RATLIFF	3576	PARKS LRN CTR	8/8/2005	Q3 2016	\$ 176,764	2015
VLADOVIC	6021	PARMELEE EL	7/30/2007	Q2 2016	\$ 216,176	2015
GALATZAN	6027	PARTHENIA EL	4/14/2008	Q2 2016	\$ 156,940	2015
VLADOVIC	8781	PATTON HS	3/7/2008	Q4 2016	\$ 22,534	2015

NETWORK EQUIPMENT UPGRADE PROJECTS

BOARD MEMBER	LOC CODE	SITE NAME	LAST NETWORK EQUIPMENT UPGRADE	ANTICIPATED SUBSTANTIAL COMPLETION	ESTIMATED PROJECT BUDGET	E-RATE APPLICATION YEAR
GALATZAN	8558	PEARL JOURN/COMM MAG	2/26/2007	Q3 2016	\$ 99,120	2015
VLADOVIC	8352	PEARY MS	3/19/2008	Q4 2016	\$ 339,604	2015
GARCIA	1953	PEREZ SP ED CTR	1/28/2009	Q2 2017	\$ 75,992	2016
ZIMMER	8909	PHOENIX HS	7/14/2010	Q3 2017	\$ 22,534	2016
RATLIFF	6096	PLAINVIEW CHTR ACAD	3/22/2007	Q3 2016	\$ 79,768	2015
GALATZAN	8354	PORTER MS	3/28/2008	Q4 2016	\$ 392,940	2015
ZIMMER	8107	PORTOLA MS	5/22/2009	Q2 2017	\$ 430,700	2016
RATLIFF	4776	PRIMARY ACADEMY	8/17/2005	Q2 2016	\$ 78,824	2015
GARCIA	8731	PUEBLO DE LA HS	4/12/2010	Q3 2017	\$ 21,948	2016
MCKENNA	6158	PURCHE EL	4/26/2007	Q4 2016	\$ 126,968	2015
MCKENNA	6164	QUEEN ANNE EL	8/27/2004	Q2 2016	\$ 83,544	2015
GARCIA	8807	RAMONA HS	3/9/2009	Q2 2017	\$ 22,534	2016
RATLIFF	6192	RANCHITO EL	3/15/2007	Q3 2016	\$ 132,632	2015
GALATZAN	8355	REED MS	3/23/2005	Q3 2016	\$ 400,492	2015
RATLIFF	8814	RESEDA SH	3/23/2005	Q3 2016	\$ 427,396	2015
GARCIA	7783	RFK NEW OPEN WLD ACAD	7/15/2009	Q2 2017	\$ 270,692	2016
KAYSER	5385	RIORDAN PC	10/25/2010	Q4 2017	\$ 59,708	2016
VLADOVIC	8867	RIVERA LC(SRHS #2 multiple sites)	11/15/2010	Q4 2017	\$ 105,256	2016
KAYSER	6329	ROCKDALE EL	6/1/2007	Q4 2016	\$ 65,372	2015
VLADOVIC	8723	RODIA HS	9/25/2002	Q2 2016	\$ 24,544	2015
RATLIFF	8116	ROMER MS	8/3/2007	Q4 2016	\$ 286,032	2015
GARCIA	7749	ROOSEVELT (all schools)	6/16/2005	Q2 2016	\$ 487,104	2015
ZIMMER	6384	ROSEWOOD EL	2/7/2005	Q3 2016	\$ 71,980	2015
GARCIA	8544	ROYBAL LC	1/17/2008	Q4 2016	\$ 369,104	2015
KAYSER	4641	SAN ANTONIO ELEM	6/30/2008	Q4 2016	\$ 157,884	2015
KAYSER	8702	SAN ANTONIO HS	9/3/2009	Q2 2017	\$ 24,544	2016
RATLIFF	8843	SAN FERNANDO SH	10/21/2008	Q4 2016	\$ 564,040	2015
RATLIFF	6479	SAN JOSE EL	8/7/2007	Q4 2016	\$ 166,852	2015
KAYSER	6875	SAN MIGUEL EL	8/11/2004	Q3 2016	\$ 250,396	2015
GARCIA	6507	SAN PEDRO EL	12/7/2007	Q4 2016	\$ 172,044	2015

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VLADOVIC	8850	SAN PEDRO SH	6/25/2010	Q3 2017	\$ 645,224	2016
RATLIFF	7404	SANTANA ARTS ACADEMY	7/8/2010	Q3 2017	\$ 136,880	2016
RATLIFF	6565	SATICOY EL	3/1/2007	Q3 2016	\$ 137,116	2015
GARCIA	8206	SCH VIS ARTS/HUM@RFK	7/15/2009	Q2 2017	\$ 106,908	2016
GARCIA	8497	SECONDARY CDS (multiple sites)	varies	Q2 2016	\$ 47,436	2015
RATLIFF	3574	SEDAK EL	6/22/2005	Q2 2016	\$ 131,688	2015
RATLIFF	8363	SEPULVEDA MS	7/8/2010	Q3 2017	\$ 383,500	2016
MCKENNA	6671	SHENANDOAH EL	7/29/2010	Q3 2017	\$ 113,516	2016
GARCIA	6685	SHERIDAN ST EL	11/9/2006	Q3 2016	\$ 252,520	2015
GARCIA	6753	SIERRA PARK EL	12/21/2010	Q4 2017	\$ 115,640	2016
KAYSER	8377	SOUTH GATE MS	9/27/2005	Q3 2016	\$ 547,520	2015
KAYSER	8153	SOUTHEAST MS	6/23/2008	Q4 2016	\$ 283,200	2015
KAYSER	6905	STANFORD PC	9/7/2010	Q4 2017	\$ 37,288	2016
GARCIA	8387	STEVENSON MS	9/9/2004	Q3 2016	\$ 419,372	2015
RATLIFF	8396	SUN VALLEY MS	7/31/2009	Q2 2017	\$ 246,856	2016
RATLIFF	8093	SUN VALLEY SH	8/5/2009	Q2 2017	\$ 148,444	2016
GARCIA	6988	SUNRISE EL	9/3/2004	Q2 2016	\$ 108,324	2015
ZIMMER	8406	SUTTER MS	7/7/2010	Q3 2017	\$ 270,692	2016
RATLIFF	7014	SYLMAR EL	12/16/2004	Q2 2016	\$ 143,252	2015
RATLIFF	7027	SYLVAN PARK EL	7/29/2005	Q3 2016	\$ 210,040	2015
ZIMMER	8883	THOREAU HS	9/28/2010	Q4 2017	\$ 24,780	2016
KAYSER	7178	TOLAND WAY EL	5/5/2010	Q3 2017	\$ 86,376	2016
GARCIA	8606	TORRES (multiple schools)	8/3/2010	Q4 2017	\$ 528,404	2016
GARCIA	7219	TRINITY EL	2/15/2008	Q4 2016	\$ 94,400	2015
KAYSER	7260	TWEEDY EL	11/8/2010	Q4 2017	\$ 159,064	2016
GARCIA	7780	UCLA COMMUNITY SCH	7/15/2009	Q2 2017	\$ 238,124	2016
ZIMMER	8886	UNIVERSITY SH	10/19/2007	Q4 2016	\$ 425,744	2015
GALATZAN	7390	VALLEY ALTERN MAG	7/31/2009	Q2 2017	\$ 142,780	2016
VLADOVIC	7419	VAN DEENE EL	10/30/2007	Q4 2016	\$ 95,344	2015
RATLIFF	7438	VAN NUYS EL	9/24/2005	Q2 2016	\$ 139,712	2015

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RATLIFF	8893	VAN NUYS SH	9/12/2005	Q3 2016	\$ 641,684	2015
RATLIFF	8914	VERDUGO HILLS SH	7/16/2005	Q3 2016	\$ 381,612	2015
MCKENNA	7479	VERMONT EL	2/7/2007	Q3 2016	\$ 177,944	2015
KAYSER	7507	VICTORIA EL	3/28/2007	Q4 2016	\$ 121,776	2015
MCKENNA	8602	VIEW PARK CONTN HS	9/24/2002	Q2 2016	\$ 22,534	2015
ZIMMER	7534	VINE EL	4/7/2005	Q2 2016	\$ 132,632	2015
GALATZAN	7562	VINTAGE MATH/SCI MAG	12/1/2004	Q3 2016	\$ 189,508	2015
MCKENNA	7575	VIRGINIA EL	8/20/2004	Q2 2016	\$ 105,964	2015
RATLIFF	7400	VISTA DEL VALLE ACAD	8/6/2010	Q4 2017	\$ 106,672	2016
RATLIFF	8117	VISTA MS	7/18/2004	Q2 2016	\$ 324,028	2015
KAYSER	4640	WALNUT PARK EL	4/25/2007	Q4 2016	\$ 202,488	2015
MCKENNA	7630	WASHINGTON PC	4/25/2005	Q2 2016	\$ 49,560	2015
ZIMMER	8481	WEBSTER MS	9/8/2010	Q4 2017	\$ 122,720	2016
MCKENNA	7151	WEEMES EL	2/7/2007	Q3 2016	\$ 179,360	2015
GARCIA	8748	WEST ADAMS PREP SH	2/5/2007	Q3 2016	\$ 400,020	2015
MCKENNA	7644	WEST ATHENS EL	10/4/2004	Q3 2016	\$ 182,664	2015
ZIMMER	8730	WEST HOLLYWOOD CDS	1/1/2004	Q3 2016	\$ 22,534	2015
GARCIA	2542	WHITE EL	9/15/2010	Q4 2017	\$ 81,656	2016
VLADOVIC	8487	WHITE MS	8/21/2009	Q2 2017	\$ 398,840	2016
MCKENNA	1914	WIDNEY HS	12/1/2004	Q3 2016	\$ 46,492	2015
VLADOVIC	8490	WILMINGTON MS	3/26/2010	Q3 2017	\$ 343,616	2016
VLADOVIC	6872	WISDOM EL	4/26/2010	Q3 2017	\$ 221,604	2016
GALATZAN	8591	WOODEN HS	12/16/2008	Q4 2016	\$ 37,288	2015
ZIMMER	8493	WRIGHT MS	8/21/2009	Q2 2017	\$ 153,164	2016
KAYSER	7959	YORKDALE EL	7/16/2008	Q4 2016	\$ 76,700	2015
MCKENNA	8598	YOUNG HS	12/1/2009	Q3 2017	\$ 9,204	2016
MCKENNA	8948	YTH OPP UNLTD ALT HS	varies	Q2 2016	\$ 70,092	2015