



# Security Enhancement Proposal

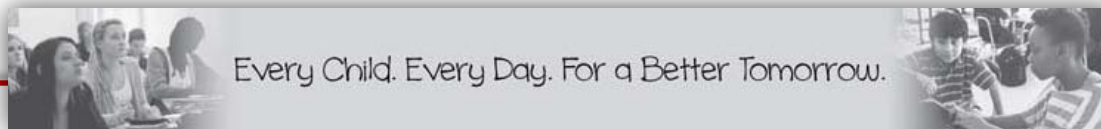
Charlotte-Mecklenburg County Commissioners

Presentation April 16, 2013

# Our Commitment

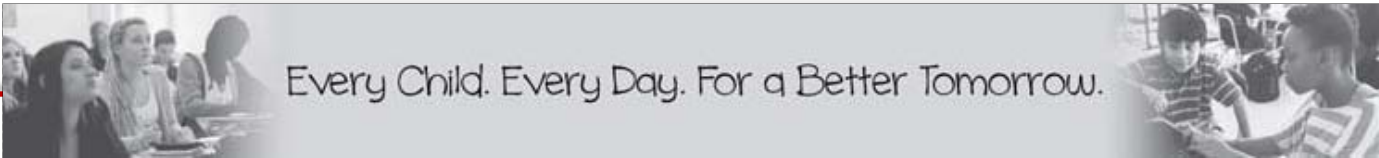
“At Charlotte-Mecklenburg Schools, the highest priority we have is to ensure the safety of our students and our staff. All other priorities come after that most sacred obligation. We have to learn and constantly challenge ourselves to continue to think about what it’s going to take to keep our students and staff safe.”

- *Superintendent Heath Morrison*

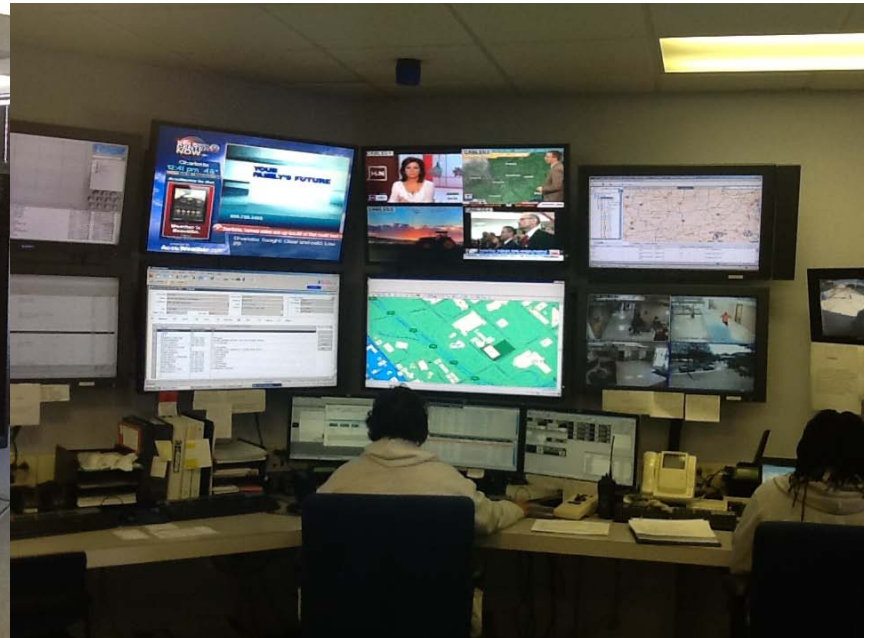


# Current Security Measures

- CMS Police Department : 18 officers, 126 security associates and 8 dispatchers
- 62 school resource officers at middle and high schools
- Camera systems at high schools, administrative sites, alternative education sites and select locations
- Safe schools plans, crisis plans, annual safe school audits, lock down drills
- Electronic visitor check-in systems at 86 sites
- Burglar and fire alarms, security and communication systems at all schools (intercoms and Walkie Talkies)
- GPS tracking systems (buses, support vehicles, CMSPD)
- 800 MHZ communication with first responders, minimal reception at facilities
- 24/7/365 manned dispatch center



# CMS Police Department 24-Hour Monitoring

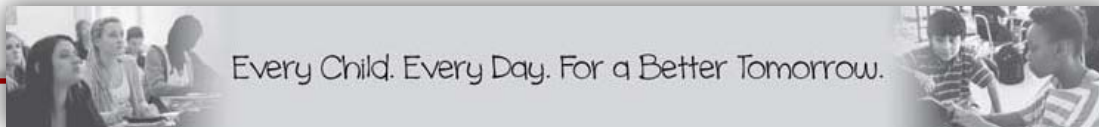


# Ongoing Security Measures

- Annual training of all school staff
- Annual review of each school's emergency response plan
- Annual table-top drills to assess vulnerability
- Emergency simulation drills
- Crime prevention through environmental design (CPTED) in building/renovating schools

# Goal: Enhance Security of Children and Staff

- Clearly identify who is on campus and why
- Control access to school buildings
- Ensure seamless communications with Law Enforcement and First Responder partners
- Connect schools in real time with national and local safety networks
- Reduce theft and vandalism, deter bullying



# Safety Requires Collaborative Partnerships

## Local Law Enforcement

- Charlotte-Mecklenburg Police Department
- Cornelius Police Department
- Davidson Police Department
- Huntersville Police Department
- Matthews Police Department
- Mecklenburg County Sheriff's Office
- Mint Hill Police Department
- Pineville Police Department

Department of Homeland Security

Charlotte Fire Department

Mecklenburg County Fire Marshal



# Endorsement of Law Enforcement Partners



**Police Department**

Bob Walton Plaza  
700 East Stonewall Street, Suite 700  
Charlotte, North Carolina 28202

March 5, 2013

Mr. Harry Jones and Members of The Mecklenburg County Board of Commissioners:

We, the Chiefs of Police of the City of Charlotte and the Towns within Mecklenburg County, in conjunction with the Sheriff of Mecklenburg County and the Fire Chief of the Charlotte Fire Department, wish to express our support for the efforts undertaken by Charlotte-Mecklenburg Schools (CMS) and The Charlotte-Mecklenburg Board of Education (CMBE) to provide enhanced safety and security measures for its school children throughout Mecklenburg County.

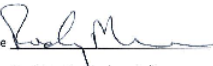
The safety of our community's students is of paramount concern to us. We know that CMS is charged with not only educating our children, but keeping them secure. A student is entrusted to their care from the moment he or she steps on a bus each morning.

We understand that no single measure, or series of measures, can guarantee that student's safe return each afternoon. However, it is incumbent upon us as a community to take whatever reasonable steps may be necessary to increase that likelihood. Key elements of the CMS plan include providing cameras inside schools and additional safety measures at the entry points. The use of bi-directional antenna (BDA) technology, as within the comprehensive approach outlined by CMS staff, will be extremely helpful to us in helping CMS keep our children safe.

We trust that you will take the next reasonable step in this process and approve the funding request before you. The BDAs will greatly assist CMS, law enforcement, and public safety personnel as we strive to ensure a safe and secure school environment for each and every student attending a CMS school.

Daniel Bailey  3/5/13  
Date

Sheriff – Mecklenburg County

Rodney Monroe  3/5/13  
Date

Chief of Police – Charlotte Mecklenburg Police

E-mail: [cmspolice@cms.k12.nc.us](mailto:cmspolice@cms.k12.nc.us)

Phone: 980-343-9030 Fax: 980-343-6033 [www.cms.k12.nc.us](http://www.cms.k12.nc.us) CMS-TV Cable 3

In compliance with federal law, Charlotte-Mecklenburg Schools administers all educational programs, employment activities and admissions without discrimination against any person on the basis of gender, race, color, religion, national origin, age or disability.



**Police Department**

Bob Walton Plaza  
700 East Stonewall Street, Suite 700  
Charlotte, North Carolina 28202

Bob L. Hunter  03/05/13  
Date

Chief of Police – Matthews Police Dept.

Philip Potter  3/5/2013  
Date

Chief of Police – Huntersville Police Dept.

Jeanne Miller  03/06/2013  
Date

Chief of Police – Davidson Police Dept.

Bence Hoyle  3-6-2013  
Date

Chief of Police – Cornelius Police Dept.

Tim Ledford  3-5-2013  
Date

Chief of Police – Mint Hill Police Dept.

Rob Merchant  3-5-2013  
Date

Chief of Police – Pineville Police Dept.

John Hannon  3-5-12  
Date

Fire Chief – Charlotte Fire Dept.

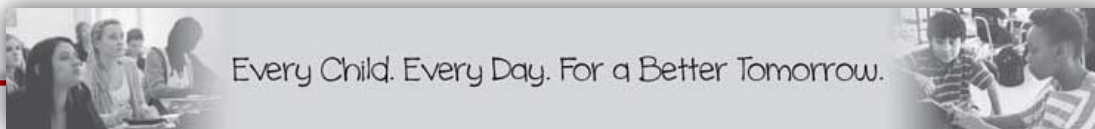
Bud Cesena  3-15-2013  
Date

Chief of Police – CMS Police Department

E-mail: [cmspolice@cms.k12.nc.us](mailto:cmspolice@cms.k12.nc.us)

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Every Child. Every Day. For a Better Tomorrow.



# Key Features of Security Enhancement Proposal

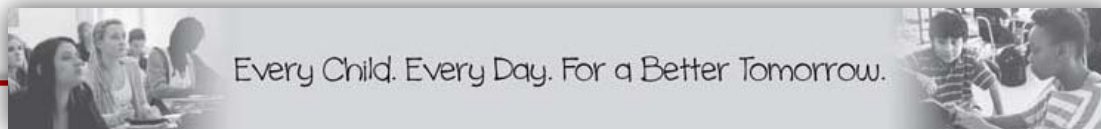
- Secure identification system, including electronic access, visitor management system, student and staff identification in all schools

# Key Features of Security Enhancement Proposal

- Improved communication with First Responders using Bi-directional amplifiers (BDAs)
- Security cameras in all schools

# Benefits of Features

	Identify Visitors	Secure Access to Buildings	Improve Emergency Communication	Reference Safety Networks National, Local	Reduce Crime and Deter Bullying
Electronic Access/ Visitor Management System/ Students, Staff IDs	X	X	X	X	X
Cameras	X	X			X
Bi-Directional Amplifiers			X		



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# Secure Identification System

- **Electronic access system** requires visitors to be admitted to schools with video camera monitoring and verbal communication
  - Reduces need for master keys
  - Enhances flow to playgrounds, portable classrooms, multi-building campuses
- **Visitor management system** immediately monitors visitors against a national registered sex offender database and against CMS “banned” list

# Secure Identification System

**Identification badges** provide picture identification of students and staff, possibly using “smart” technology for multiple applications such as food service, transportation, media



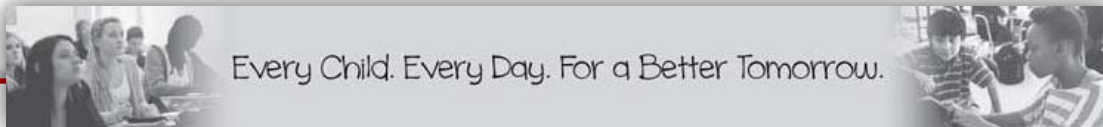
## IMPORTANT ID BADGE INFORMATION

This ID badge is the property of Charlotte-Mecklenburg Board of Education.

If any employee should leave his/her employment with CMS, it is imperative that the employee come to the Security Department and turn the ID badge in for security purposes.

All CMS employees will be required to wear ID badges on CMS property. It is the responsibility of all CMS employees to maintain their ID badge. If lost or damaged, there will be a replacement cost of \$5.00.

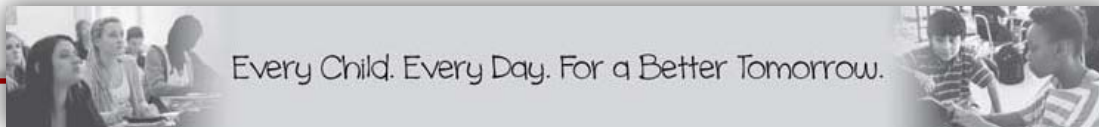
# Electronic Access



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# Improved Communications with First Responders

- Bi-directional amplifiers are needed to improve communications with Law Enforcement and First Responders especially during emergencies
- Emergency personnel (police, fire and medic) have identified improved communication as a major need



# Security Cameras

Camera quantity and placement will vary depending upon the site. High schools currently have cameras; some line-of-sight gaps exist. This proposal provides cameras for elementary and middle schools and fills in coverage gaps at high schools. Currently, there are 2,500 cameras in schools. This proposal increases cameras to 6,500.

Schools	Range	Standard
Elementary (89)	16 – 32 cameras	24
Middle (39) (including K-8)	32 – 64 cameras	48
High (24)	50 – 100 cameras	75
Alternative (4)		

Includes Open Network Video Interface Forum cameras (life span 5-10 years), extended recording capacity, switches, software, panic buttons in front office.





# Video Monitoring

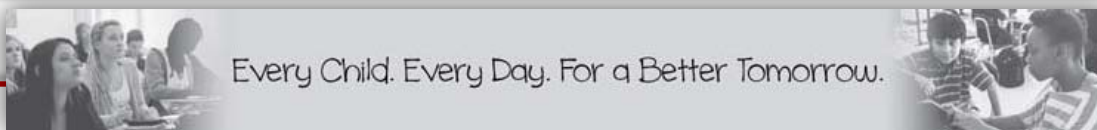


# Component Costs

Component	Amount
Electronic access, visitor management system	\$3,012,070
Bi-Directional Amplifiers (BDAs)	\$4,140,000
Cameras	\$12,168,847
<b>TOTAL</b>	<b>\$19,320,917</b>

# Annual Recurring Costs

Component	Amount
Electronic access, visitor management software application licenses	\$75,000
Bi-Directional Amplifiers (BDAs) annual fee	\$16,905
Additional bandwidth to support cameras	\$777,000
Cameras: preventive maintenance and repair (\$60/camera x 4,000 new)	\$240,000
Data center hardware: rack space, cross connects, power	\$54,480
<b>TOTAL</b>	<b>\$1,163,385</b>



# Timeline

- Presentation to Board of Education
  - March 26, 2013
- Proposal to County Commissioners
  - April 16, 2013
- Planning and installation 2013-14
  - Summer 2013, review school security plans, conduct table top drills, conduct training
  - By August 2013, student and staff identification cards will be implemented and electronic access installed
  - By January 2014, visitor mgmt systems, entry video systems and panic buttons will be installed. Visitor management systems follow VoIP upgrade which is scheduled to be completed in November.
  - By August 2014: BDA's and Cameras will be installed.
- Training and implementation
  - 2013-14 and ongoing