

# KDE District Facilities Branch 2013 Update

High Performance Sustainable Schools Workshop

**Greg Dunbar**  
Branch Manager  
March 14, 2013



# Agenda

- ▶ Efficient School Design (KRS 157.450 and 157.455)
- ▶ 2013 KY Green Ribbon Schools
- ▶ School Safety and Security
- ▶ Pending Legislation



# Encouraging Efficient School Design



# Efficient School Design (KRS 157.450 & 157.455)

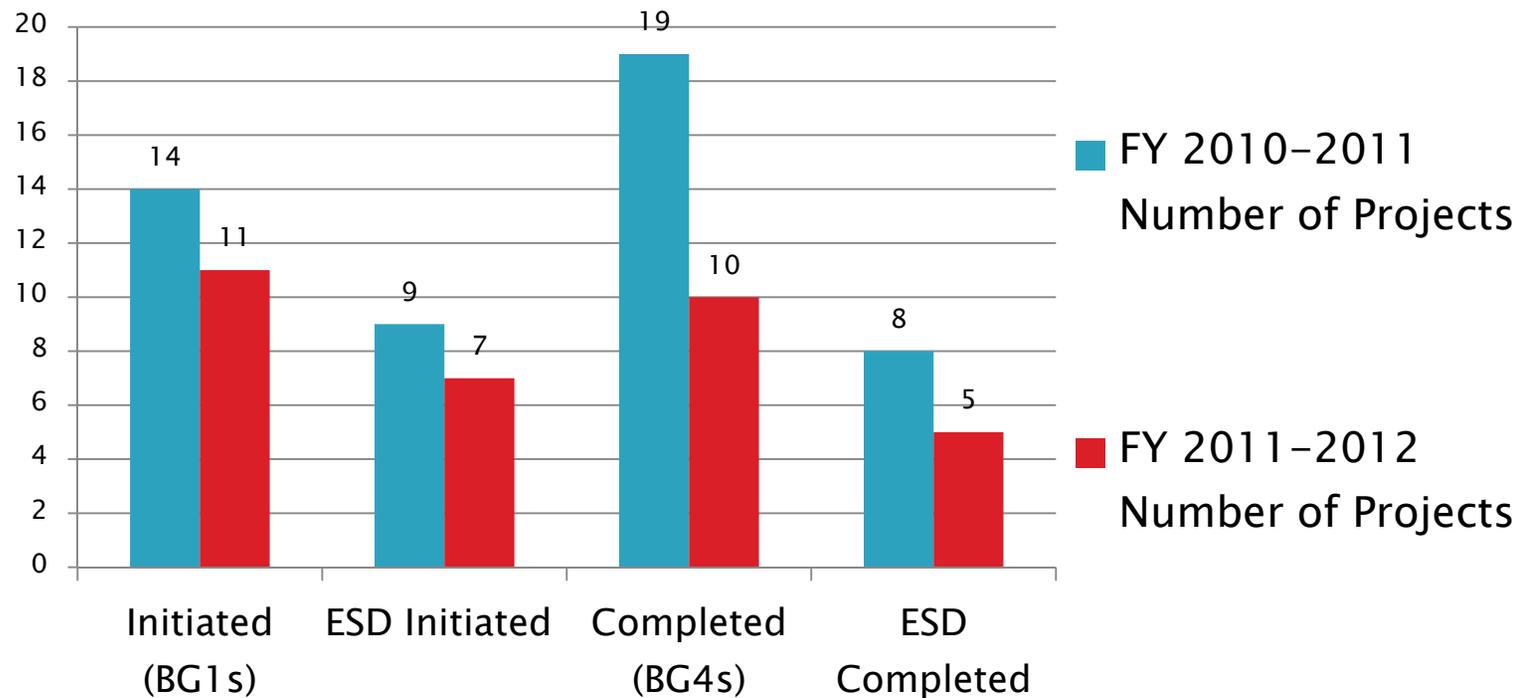
All Projects FY 2010-2011	Initiated (BG1s)	Completed (BG4s)
Number of Projects	314	94
Total Project Construction Cost	\$503,339,940	\$402,205,726

All Projects FY 2011-2012	Initiated (BG1s)	Completed (BG4s)
Number of Projects	263	180
Total Project Construction Cost	\$354,137,888	\$262,788,716



# Efficient School Design (KRS 157.450 & 157.455)

## New Construction Projects



# Efficient School Design (KRS 157.450 & 157.455)

- ▶ It is the intent of KRS 157.450 and 157.455 to:
  - (1) Support the construction of new school buildings and the renovation of existing school buildings in a manner that will create a healthy environment for students and teachers while saving energy, resources, and operational expenses; and
  - (2) Encourage the use of a life-cycle cost, holistic approach to building design that considers school design, construction, operation, and maintenance in the initial decision-making process.

Effective: July 15, 2010



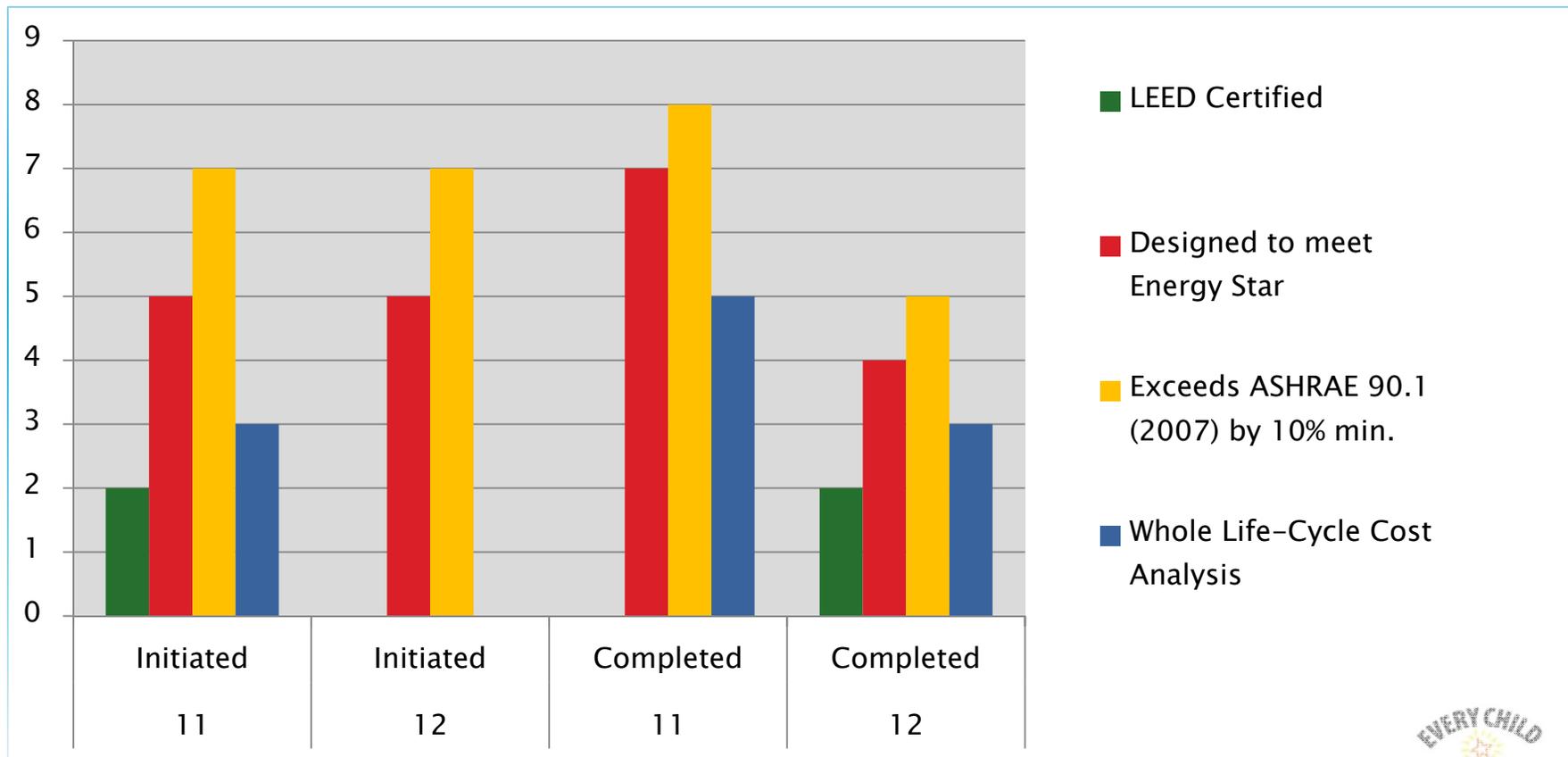
# Efficient School Design (KRS 157.450 & 157.455)

- ▶ "Efficient school design" means a school building design:
  - 1. That meets, at a minimum, the requirements of the United States Green Building Council's Leadership in Energy and Environmental Design (LEED) for schools at the "Certified" level or certification under a comparable system with equivalent requirements or other building performance certification systems, such as the United States Department of Energy's Energy Star program;
  - 2. That ensures energy savings from a building design that equates to or exceeds ten percent (10%) over the American Society of Heating, Refrigerating, and Air Conditioning Engineers energy standard 90.1–2007; and
  - 3. For which whole building life-cycle cost analysis illustrates that the design is cost-effective.



# Efficient School Design (KRS 157.450 & 157.455)

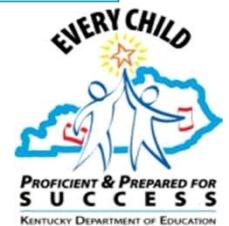
## Number of Projects by Efficient School Design Criteria



# Efficient School Design (KRS 157.450 & 157.455)

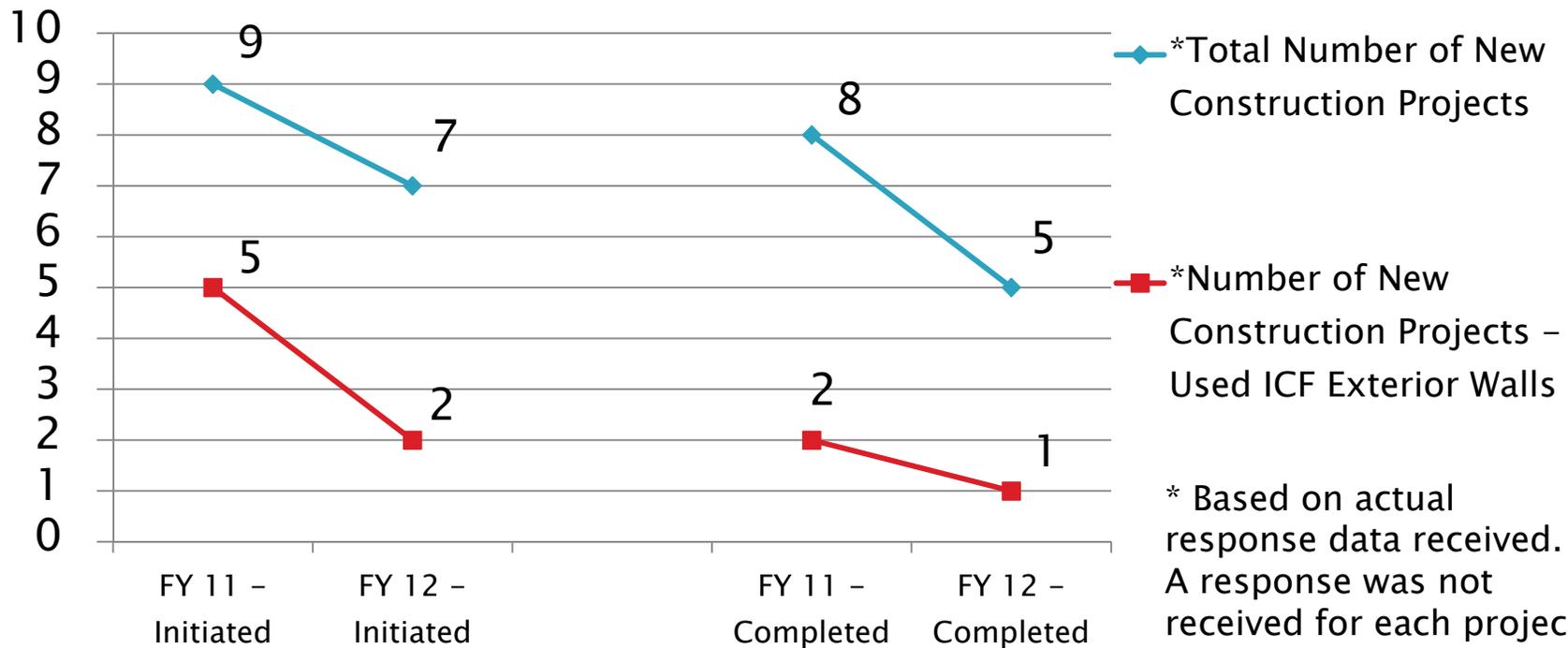
## Number of Kentucky ENERGY STAR Labeled K-12 Schools

- ▶ Building Construction Ranging from 1925 to 2010
  - Over 16 Million ft<sup>2</sup> Floor Space
- ▶ 201 as of March 8, 2013 (14% of approximately 1,400 schools)



# Efficient School Design (KRS 157.450 & 157.455)

## Number of New Construction Projects - ICF Exterior Walls



# Congratulations – 2013 KY Green Ribbon Schools



# 2013 KY Green Ribbon Schools

- ▶ This award is a comprehensive recognition of exemplary achievement in environmental impact, health, and education.
- ▶ It recognizes schools where staff, students, officials, and communities have worked together to produce energy efficient, sustainable, and healthy school environments and to ensure the sustainability and environmental literacy of graduates.



# 2013 KY Green Ribbon Schools

High achievements or demonstrated improvements in three pillars:



Reduce environmental impact and costs



Improve the health and wellness of students and staff



Provide effective environment and sustainability education, incorporating STEM, civic skills and green career pathways



# 2013 KY Green Ribbon Schools

Three outstanding Kentucky schools are recipients of the 2013 Kentucky Green Ribbon Schools Award, listed by school district:

- ▶ **Fayette County** – Locust Trace AgriScience Farm
- ▶ **Jefferson County** – Cane Run Elementary
- ▶ **Scott County** – Northern Elementary

These schools are nominees for the 2013 National Green Ribbon Schools Award, which will be announced on April 22, 2013 by the US Department of Education



# School Safety and Security

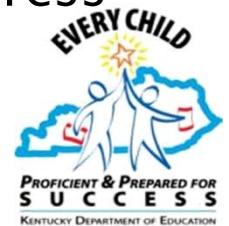


# School Safety and Security

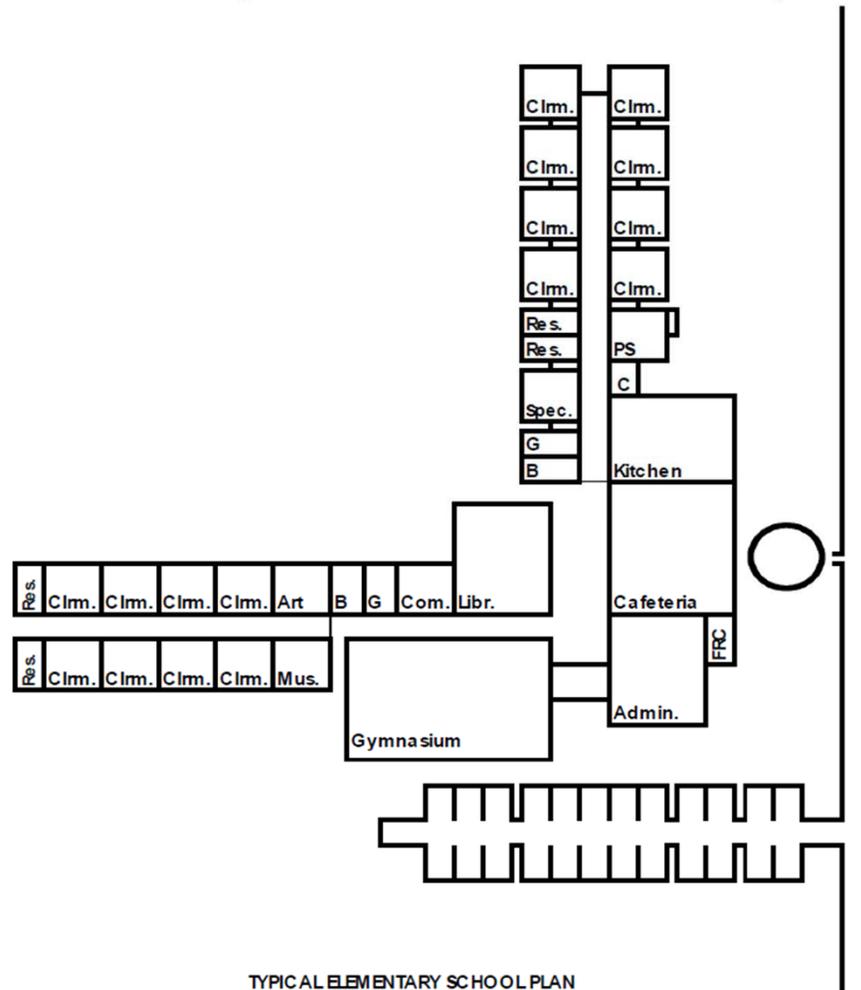
## Holistic View



- ▶ Fire Safety / Life Safety – Changes in Fire Safety Codes
- ▶ Natural Disasters – Changes in Building Codes ongoing
- ▶ Internal Violence and/or Medical Emergency – Changes in protocols and administrative operations but no building code or regulation changes
- ▶ External Violent Intrusion – Changes in protocols and administrative operations. Likely legislative action to address regulation and code changes



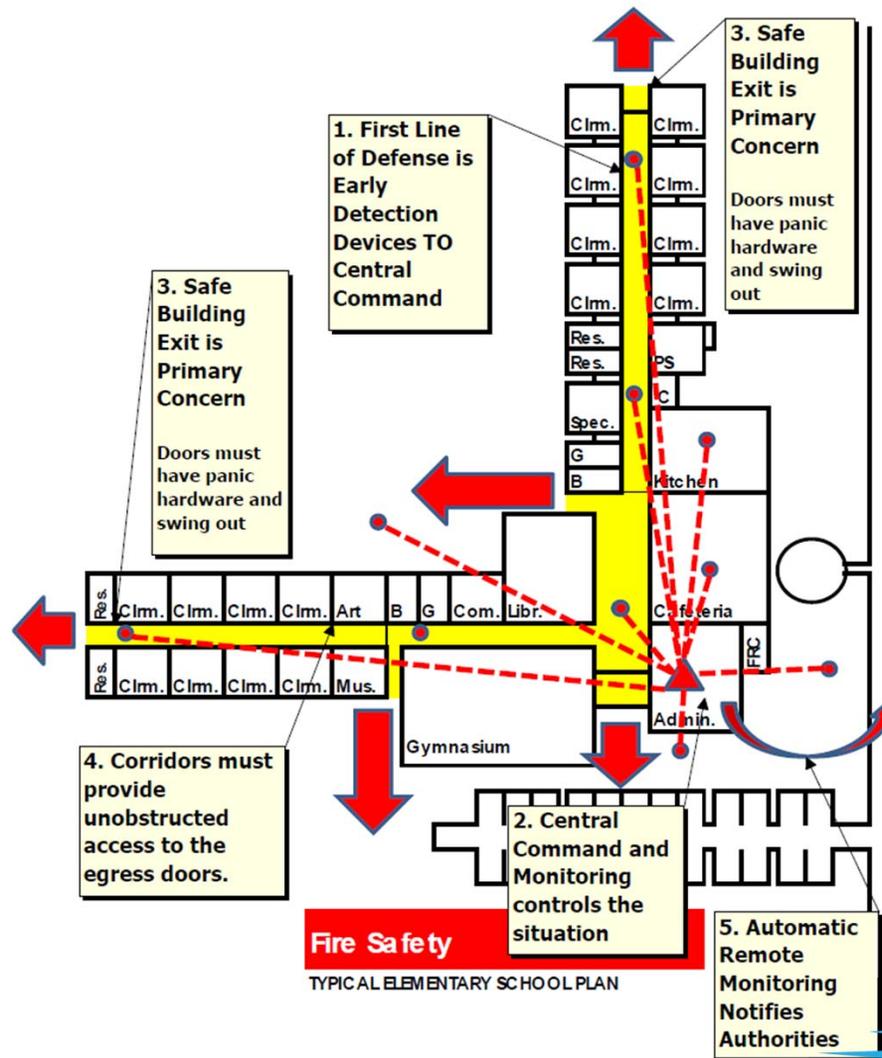
# School Safety and Security



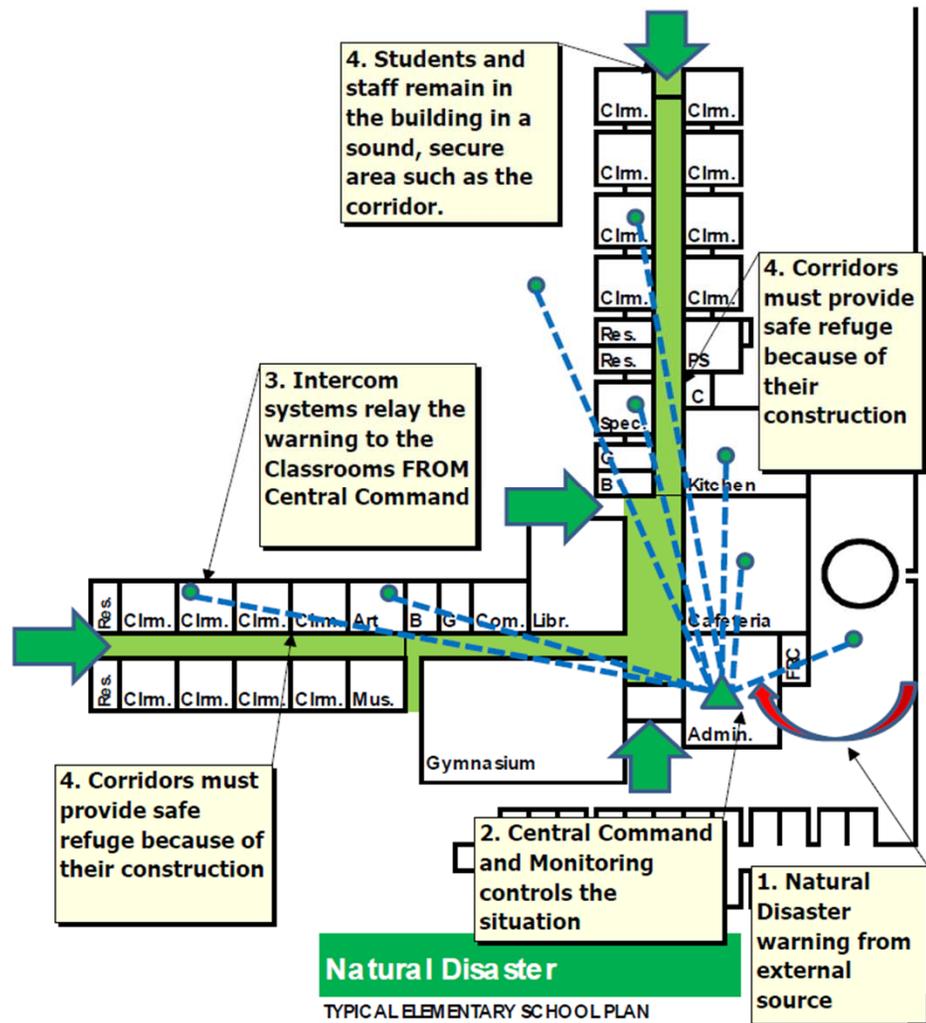
TYPICAL ELEMENTARY SCHOOL PLAN



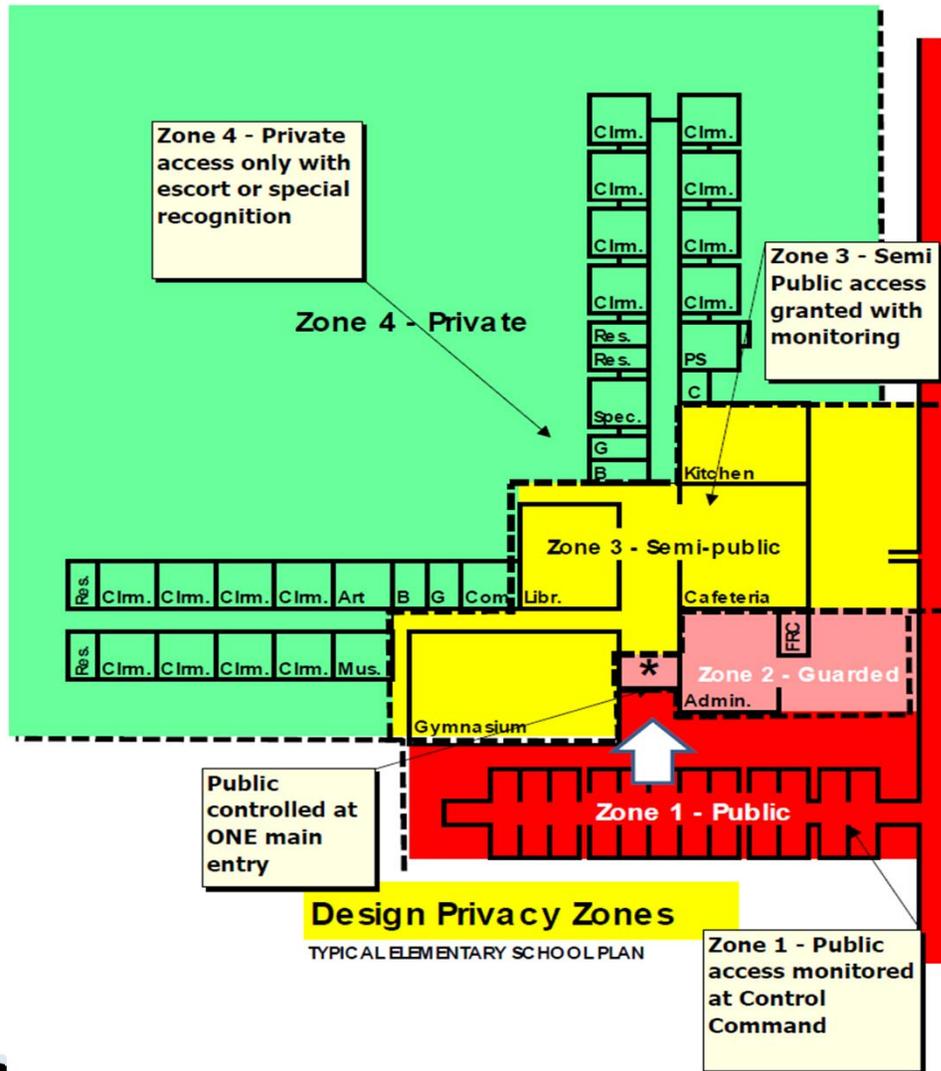
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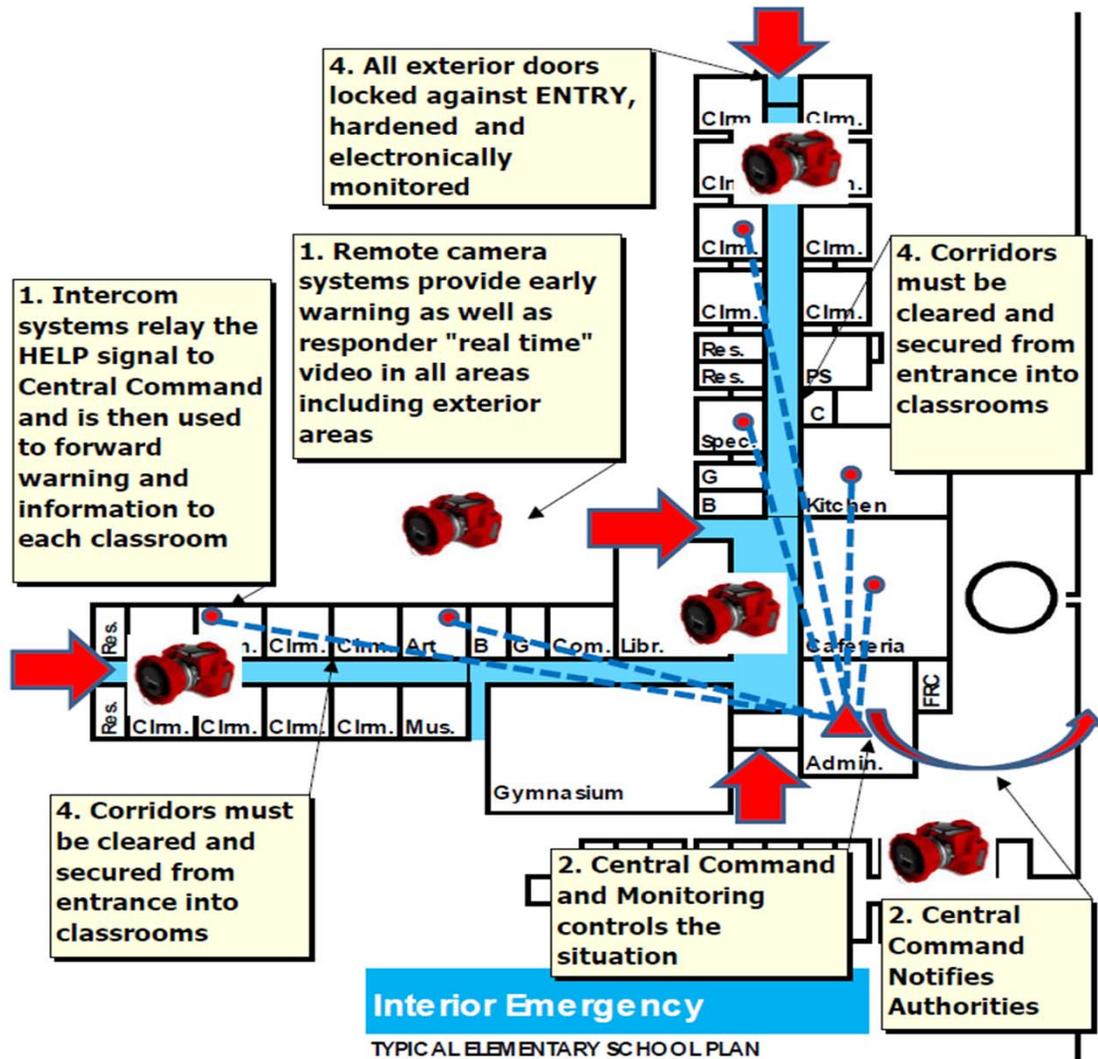
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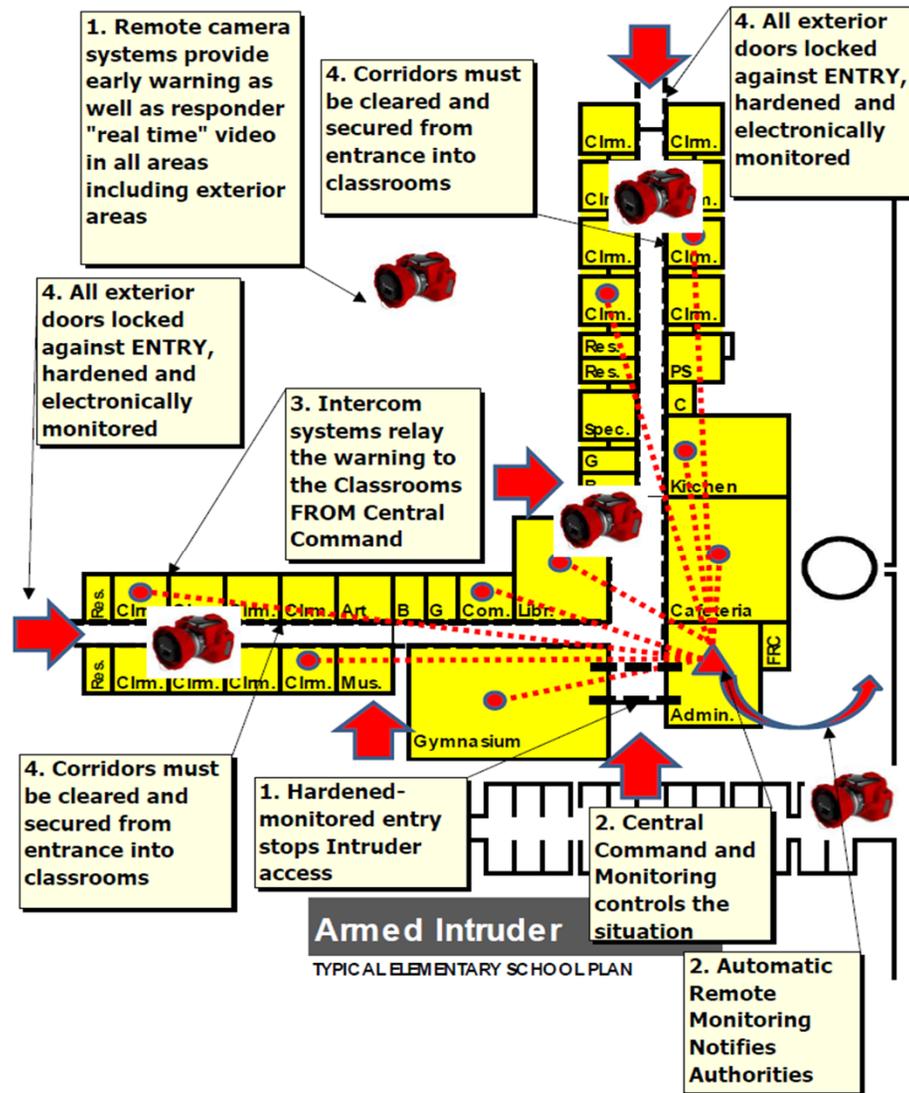
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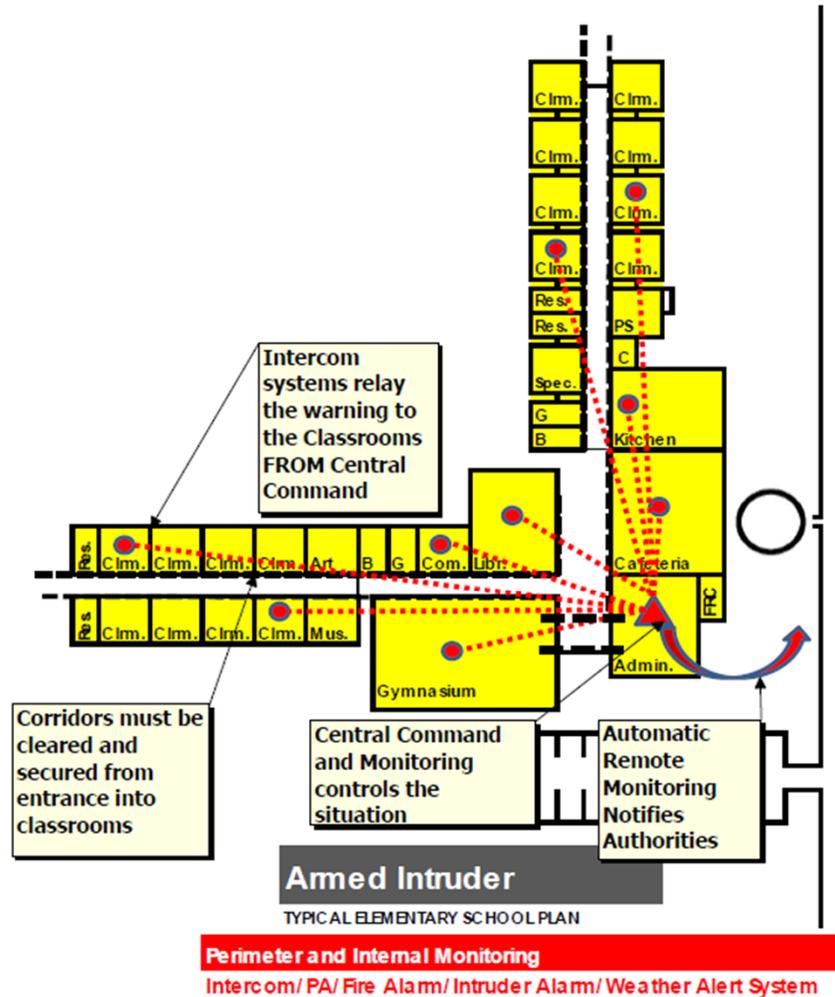
# School Safety and Security



# School Safety and Security

## Perimeter and Internal Monitoring

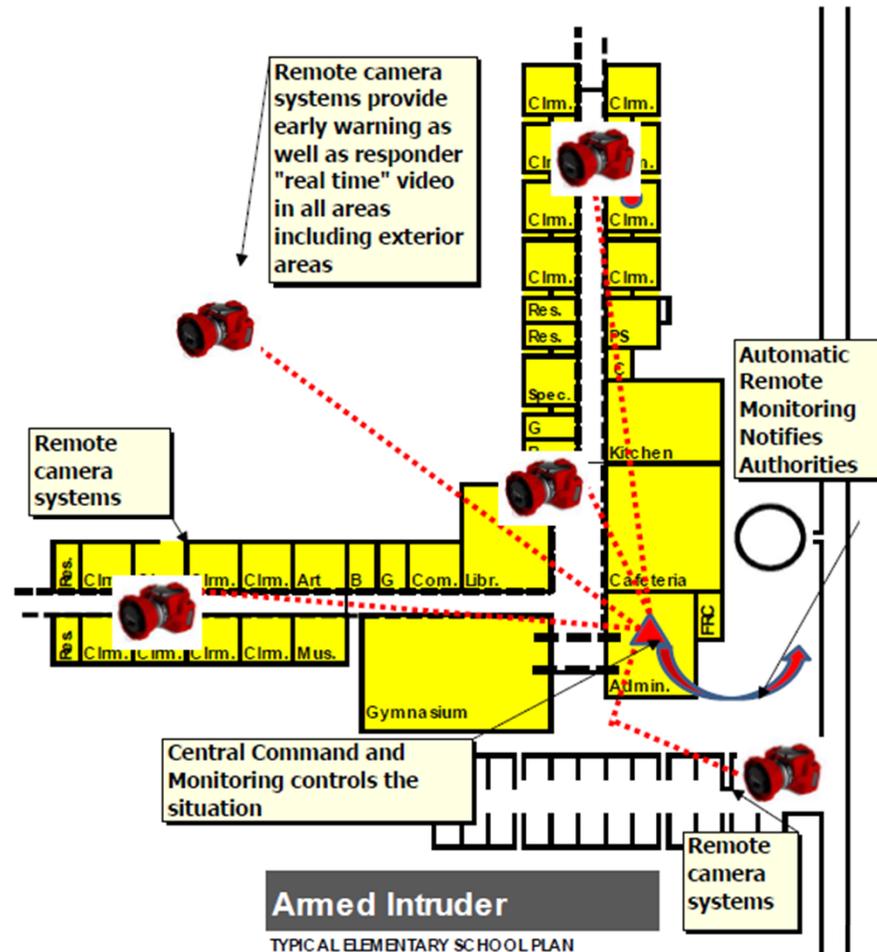
- Intercom/PA/Fire Alarm/Intruder Alarm/Weather Alert System
  - ❑ New system with up to 16 alarm codes - **\$1.00 per sf. of building area**
    - ❑ Includes head-in monitor and external monitoring @ **about \$200 per year**
    - ❑ Private Room Phones could replace room "Panic" Button
  - ❑ Existing system upgrade with up to 16 alarm codes – **50 cents per sf. of building area**
  - ❑ Includes head-in monitor upgrade and external monitoring @ **about \$200 per year**



# School Safety and Security

## Perimeter and Internal Monitoring

- Intercom/PA/Fire Alarm/Intruder Alarm/Weather Alert System
  - ❑ Cameras
    - \$10,000 for a systems and one camera
    - \$1,500 for each additional camera



Perimeter and Internal Monitoring

Remote Camera Systems

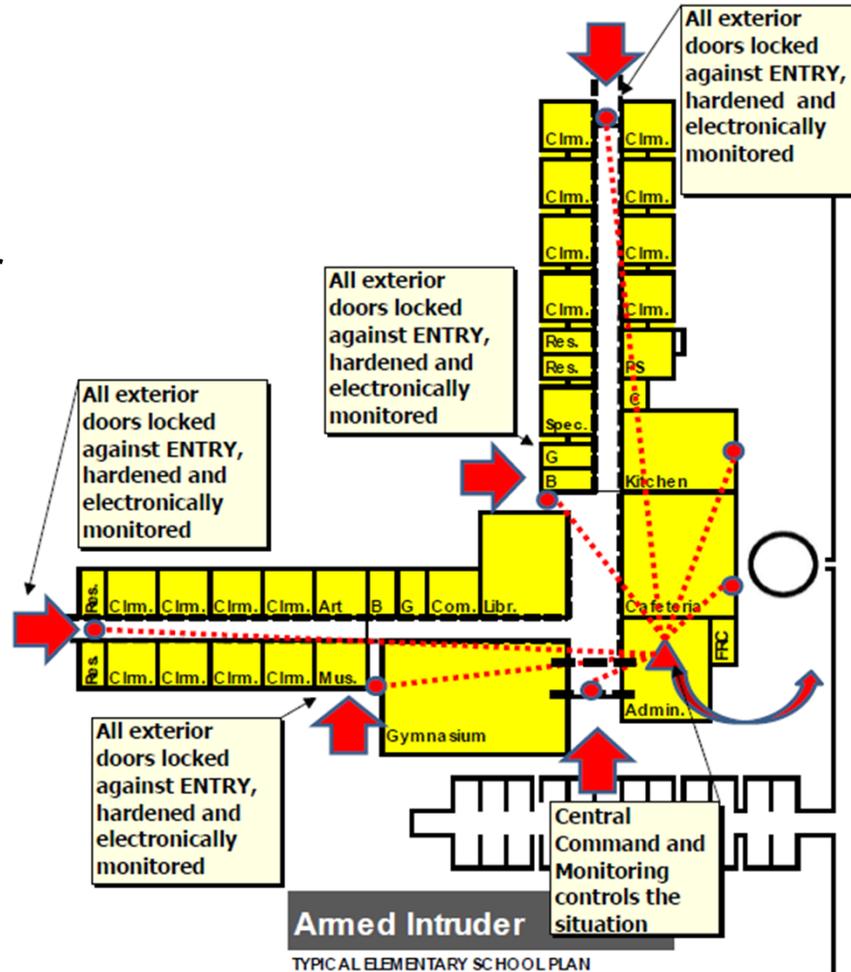


# School Safety and Security

## Perimeter and Internal Monitoring

Intercom/PA/Fire Alarm/Intruder Alarm/Weather Alert System

- ❑ Door contact monitors  
\$1,000 per door



**Perimeter and Internal Monitoring**  
 Door Contact Monitors

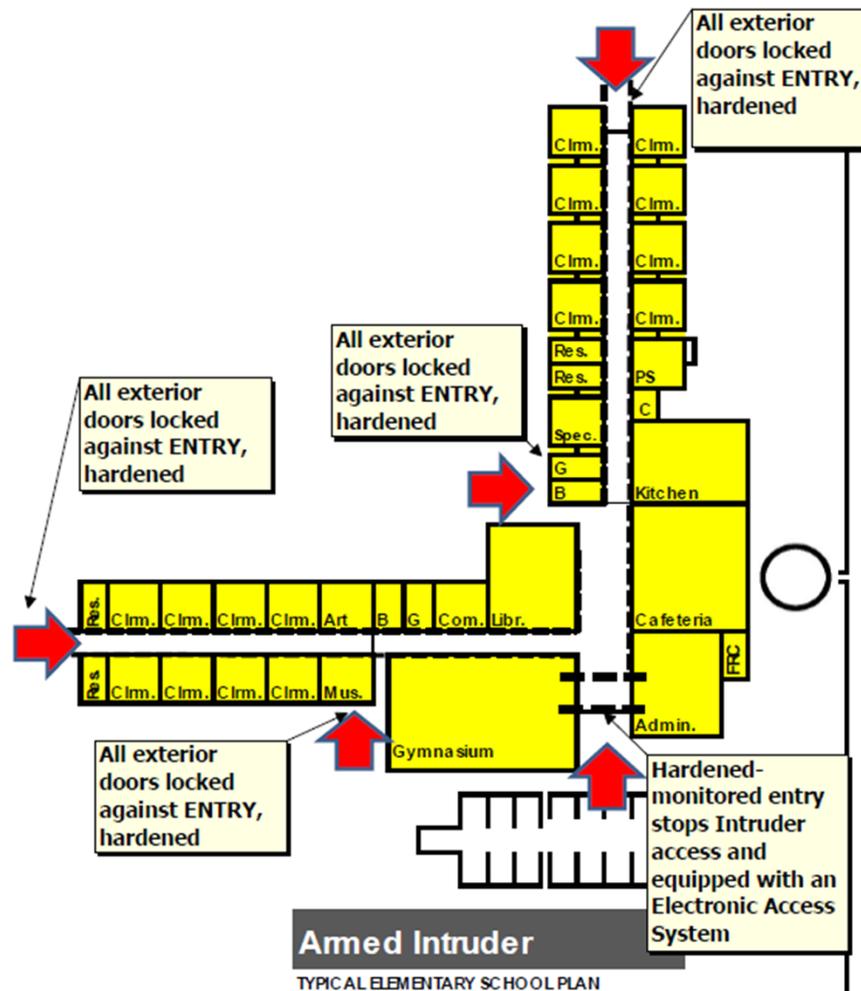


# School Safety and Security

## Perimeter “Hardening”

### Doors

- ❑ New hardened exterior/interior door/frame and hardware – **\$2,000 to \$2,500 each**
- ❑ Replacement locksets for better security on existing doors - **\$150 to \$300 each**
- ❑ Exterior Door Electronic Access System (Buzzer/Video/Voice/Electric Contract/Wire/Installation) - **\$2,500 to \$3,000 each**



**Perimeter Hardening**  
Doors and Glazing

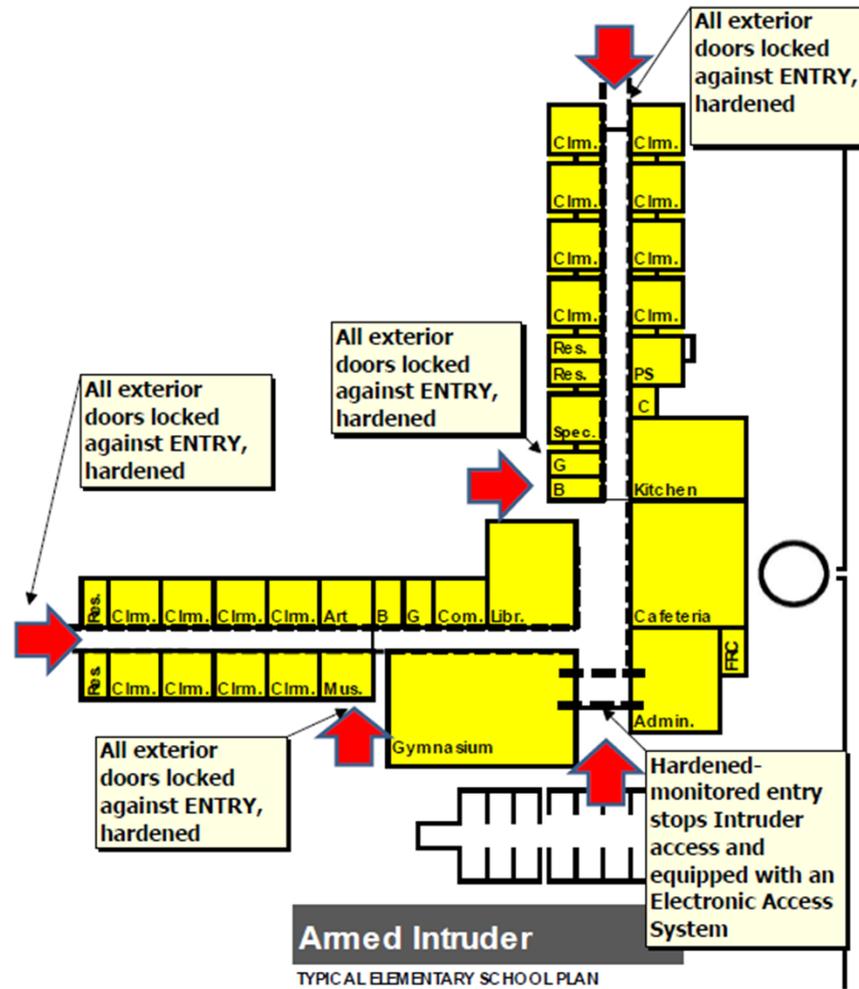


# School Safety and Security

## Perimeter “Hardening”

### Glazing

- ❑ Level 1 – Bullet Proof Glazing (9mm pistol)
  - ❑ Glass ¾” Thick
  - ❑ 9 #/sf.
  - ❑ **\$45/sf.** (vs. \$5/sf. for tempered glass and \$10/sf. laminated)
  
- ❑ Plastic ¾” Thick
  - ❑ 4.6 #/sf.
  - ❑ **\$65/sf.** (vs. \$5/sf. for tempered glass and \$10/sf. laminated)



**Perimeter Hardening**  
Doors and Glazing



# School Safety and Security

## Funding Options

- ▶ Undertaken through the standard BG-1 Process
  - Submission to KDE
  - Architect review or design
- ▶ 2008 changes in 702 KAR 4:180 allow “safety and security systems” to be included on the District Facilities Plan (DFP) as a single system in funding priority
- ▶ If not on DFP, costs are generally modest and could be paid from “restricted cash” by submission of a Capital Funds Request Form



# Pending Legislation



# Pending Legislation

## THE FOLLOWING IS A LISTING OF SEVERAL 2013 LEGISLATIVE BILLS PERTAINING TO EDUCATIONAL ISSUES

(In parentheses is status of bill on March 5, 2013)

### SENATE BILLS

- ▶ **SB 8 AN ACT** relating to school safety
  - (Sen. Mike Wilson) requires the adoption of a school emergency plan, requires emergency drills, and requires an annual report to the department of education. The legislation will require safety drills within the first month of school and require a lockdown practice within the first month of school. Local boards will be required to review crime prevention designs when constructing or renovating a school building. (In House Education Committee)



# Pending Legislation

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(In parentheses is status of bill on March 5, 2013)

### HOUSE BILLS

- ▶ 2013 House Special Subcommittee on School Safety Issues
- ▶ HB 135 AN ACT relating to school and student safety
- ▶ HB 354 AN ACT relating to school safety



# Pending Legislation

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### HOUSE BILLS

- ▶ **2013 House Special Subcommittee on School Safety Issues**
  - The House of Representatives created a Special Subcommittee on School Safety Issues, which met three times during the session break. The subcommittee heard presentations from members of law enforcement, the military, local schools, the Kentucky Center for School Safety, and KDE's Office of Administration and Support. The meetings were for informational purposes only, as no actions on bills can be taken during the odd-year session break. The subcommittee will continue its work during the session.



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(In parentheses is status of bill on March 5, 2013)

### HOUSE BILLS

- ▶ **HB 135 AN ACT** relating to school and student safety
  - (Rep. Richard Henderson) establishes the School and Student Safety Review Subcommittee as a statutory committee of the Legislative Research Commission. (Senate State and Local Committee)



# Pending Legislation

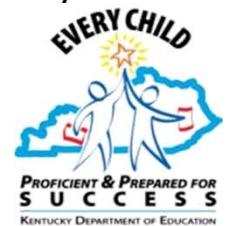
## THE FOLLOWING IS A LISTING OF SEVERAL 2013 LEGISLATIVE BILLS PERTAINING TO EDUCATIONAL ISSUES

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### HOUSE BILLS

#### ▶ HB 354 AN ACT relating to school safety

- (Rep. Richard Henderson) requires adoption of a school emergency plan and sets requirements for emergency drills. Districts must report annually to KDE and the Kentucky Center for School Safety (KCSS). The bill deletes requirements to alert parents and guardians to be advised about lockdown procedures. The bill also requires local boards to review crime prevention designs when constructing or renovating a school building. Districts will also be mandated to provide law enforcement, fire, and medical personnel with copies of school emergency response plans and floor plans. All facility floor plans must have emergency identification numbers for windows and doors by 2015. Also, the bill would require KDE to develop protocols for student records within the student information system to provide schools with prior offenses. The bill also requires parents (and potentially therapists) to notify schools of students with mental or emotional conditions. (Senate Education Committee)



# Questions

