

**CIP 2013
ENVIRONMENTAL COMPLIANCE/ADA**

Description	Budget/Year
Indoor Air Quality: Testing, Monitoring, Minor Remediation	\$582,000
Lead Paint: Remediation	\$138,000
AHERA/Asbestos: Testing, Monitoring, abatement	\$54,000
ADA: Special needs projects	\$570,000
HAZMAT: Spill Remediation, Lab Packs	\$98,500
UST: Remediation	\$330,000
ADA/Playgrounds: Grades K-1 & 2-5 Playground Re-surfacing	\$0
Total Budget per Year	\$1,772,500

Total Budget for CIP 2009	\$5,317,500
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CIP 2013
ENVIRONMENTAL COMPLIANCE/ADA

INDOOR AIR QUALITY

November 13, 2012

Justification:

The budget amount of \$582,000 per year was derived from the following reasoning:

Indoor Air Quality projects are unknown for upcoming fiscal years. Historical data from past Indoor Air Quality projects has been used to project costs for future funding needs.

Fiscal Year	Funds Spent on IAQ
08-09	\$587,000
09-10	\$423,000
10-11	\$693,000
11-12	\$511,000
Average	\$554,000

It is also noteworthy that while complete data for FY12-13 is not available, spending is trending upwards due to aging mobile units and a decrease in custodial services, which has lead to increased complaints about the indoor air quality. Therefore, we would anticipate that a 5% increase in historical costs is a reasonable expectation.

$\$554,000 + 5\% \text{ increase} = \$582,000$

Total: \$1,746,000/3 yrs. = \$582,000/yr.

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LEAD PAINT

November 13, 2012

Justification:

The budget amount of \$138,000 total was derived from the following reasoning:

Total funds spent on lead paint remediation activities in the past four fiscal years = \$362,000

\$362,000/17 schools remediated = \$23,000 per school

\$23,000 per school x 6 schools remediated per year = \$138,000 per year

Total: \$414,000/3 yrs. = \$138,000/yr.

**CIP 2013
ENVIRONMENTAL COMPLIANCE/ADA**

AHERA/ASBESTOS

November 13, 2012

Justification:

The budget amount of \$54,000 per year was derived from the following reasoning:

AHERA/Asbestos projects are unknown for the upcoming fiscal years. Historical data from past AHERA/Asbestos projects has been used to project costs for future funding needs.

Fiscal Year	Funds Spent on IAQ
08-09	\$19,000
09-10	\$38,500
10-11	\$67,000
11-12	\$24,000
Average	\$37,000

In addition, the following schools have asbestos containing building materials (ACBM) that if removed would make the school asbestos free of all known ACBM:

Briarcliff Elementary-floor tile/mastic in cafeteria and two storage rooms-\$18,500.

Brooks Elementary-pipe insulation in boiler room-\$7,500.

Douglas Elementary-pipe insulation above ceiling in cafeteria-\$4,700.

Fuller Elementary-floor tile/mastic in cafeteria-\$11,600.

Lockhart Elementary-floor tile/mastic in gym-\$8,700.

$\$37,000 \times 3 \text{ years (Projected Costs)} = \$111,000.$

\$51,000 (unfunded projects)

Total: $\$111,000 + \$51,000 = \$162,000/3\text{yrs.} = \$54,000/\text{yr.}$

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ADA

November 13, 2012

Justification:

The budget amount of \$570,000 per year was derived from the following reasoning:

ADA projects are unknown until a student with special needs enters a school that requires modifications to meet their needs. Historical data from past ADA projects has been used to project costs for future funding needs.

Fiscal Year	Funds Spent on IAQ
08-09	\$254,000
09-10	\$148,000
10-11	\$26,000
11-12	\$325,000
Average	\$188,250

In addition, the following ADA projects have been identified but are unfunded:

Athens Drive High-Football Stadium ADA Seating-\$445,000.
East Cary Middle-Accessible Route to Upper P.E. Field-\$350,000.
East Garner Middle- Accessible Route to Upper P.E. Field-\$350,000.

$\$188,250 \times 3 \text{ years (Projected Costs)} = \$564,750.$

$\$1,145,000$ (unfunded projects)

Total: $\$564,750 + \$1,145,000 = \$1,709,750/3\text{yrs.} = \$570,000/\text{yr.}$

The following is an example of the types of ADA projects that would be funded with this budget: toilet renovations, install ramps, wheelchair lifts, sidewalks, ADA compliant room signage, automatic door operators, time out rooms, ADA compliant door hardware, and highlight elevation changes for visually impaired.

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HAZMAT

November 13, 2012

Justification:

The budget amount of \$98,500 per year was derived from the following reasoning:

HAZMAT projects are unknown for the upcoming fiscal years. Historical data from past HAZMAT projects has been used to project costs for future funding needs.

Fiscal Year	Funds Spent on IAQ
08-09	\$122,000
09-10	\$119,000
10-11	\$87,000
11-12	\$66,000
Average	\$98,500

Total: \$295,500/3 yrs. = \$98,500 per year.

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Underground Storage Tanks (remediation)

November 13, 2012

Justification:

The budget amount of \$330,000 per year was derived from the following reasoning:

Four school sites where underground storage tanks have either been removed or closed in place will require remediation of the ground water due to diesel fuel contamination. Using historical data from past remediation projects, each site will cost approximately \$40,000 per year.

The following projects have also been identified:

1. Ground water remediation may be required at the Central Services Complex (Rock Quarry Road) due to diesel fuel use at the bus garage fueling station, which has been found in the UST monitoring wells. An estimated cost for this work is \$40,000 per year.
2. The Noble Road site has soil contamination that will require remediation. An estimated cost for this work is \$100,000 per year*.

$(5 \text{ sites} \times \$40,000) + \$100,000 \text{ (Noble Road site)} = \$300,000 \text{ per year}$

$\$300,000 \text{ Remediation Cost per Year} + \$30,000 \text{ Design Fees} = \$330,000/\text{yr.}$

*This cost may not be incurred by the Environmental & Grounds Department based on the status of Real Estate Services conditions.

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ADA/Playground Re-surfacing

November 13, 2012

Justification:

The budget amount of \$400,000 per year was derived from the following reasoning:

30 playgrounds x \$40,000 per surface = \$1,200,000/3 years = \$400,000 per year

Capital Planning Bond Assumptions
as approved by the Board of Education
on July 24, 2012

15. Security:

Project priorities include ensuring the health and safety of children and staff; that schools are safe quality places for students to learn. To that end, the following assumptions will ensure that these objectives are met. All new and existing schools shall have consistent security systems with the most up to date technologies equivalent to those used in all new schools. All new facilities and major renovations shall utilize Crime Prevention through Environmental Design (CPTED) principles. The purpose of these proposed assumptions is to have a centralized security system for all schools.

	<u>System</u>	<u>Elementary</u>	<u>Middle</u>	<u>High</u>
A	Closed Circuit Television System (CCTV)	Integrated IP based: minimum 16 camera system	Integrated IP based: minimum 32-64 camera system	Integrated IP based: minimum 64-80 camera system
B	Access Control (Badge system)	Enterprise based access control system	Enterprise based access control system	Enterprise based access control system
D	Visitor Management	Networked kiosk for visitor sign-in and sex offender	Networked kiosk for visitor sign-in and sex offender	Networked kiosk for visitor sign-in and sex offender
C	Area Notification (Public Address Systems / Intercoms)	Broadcast location added for designated incident command (principal conference room)	Broadcast location added for designated incident command (principal conference room)	Broadcast location added for designated incident command (principal conference room)
E	Entrance Buzzer system	Add to all schools	N/A	N/A

CIP 2013: WCPSS Security Summary Description

A CCTV System Upgrade:

All camera systems are brought up to security standards for minimum number of cameras per type of facility. All camera systems are provided/upgraded to enterprize IP camera systems.

System Standards:
 Elementary Schools - 16 cameras minimum,
 Middle Schools - 32 cameras minimum,
 High Schools - 64 cameras minimum.

Complete Project:

All camera systems are brought up to security standards for minimum number of cameras per type of facility. All camera systems in middle schools and high schools are provided/upgraded to enterprize IP camera systems. Camera systems are utilized most at the middle and high school level. Footage is typically needed for security investigations at this level. An enterprize system will give the security department greater ability to provide this footage. System Standards: Elementary Schools - 16 cameras minimum, Middle Schools - 32 cameras minimum, High Schools - 64 cameras minimum.

Priority Needs:

All camera systems are brought up to security standards for minimum number of cameras per type of facility. All new camera systems will be enterprize IP camera systems.

System Standards: Elementary Schools - 16 cameras minimum,
 Middle Schools - 32 cameras minimum,
 High Schools - 64 cameras minimum.
 Facilities have been assessed via the attached scoring matrix.

Critical Needs:

B Access Control:

All schools receive uniform enterprize card access systems. System standards:
 Elementary Schools have access on 8 doors,
 Middle Schools have access control on 10 doors,
 High Schools have access control on 12 doors.

Elementary and High schools receive uniform enterprize card access systems. Elementary schools are a priority to receive this system in order to give greater ability to lock down schools in emergency situations, control access of staff and visitors in the building, and provide secure access to outdoor facilities. High schools receive the ability to control staff, student, and visitor access by securing all exterior doors throughout the school day thus influencing pedestrian traffic. In addition the school receives greater access control for all extracurriculars. System standards:
 Elementary Schools have access on 8 doors,
 Middle Schools have access control on 10 doors,
 High Schools have access control on 12 doors.

Elementary schools receive uniform enterprize card access systems. Elementary schools are a priority to receive this system in order to give greater ability to lock down schools in emergency situations, control access of staff and visitors in the building, and provide secure access to outdoor facilities.

System standards:
 Elementary Schools have access control on 8 doors,
 Middle Schools have access control on 10 doors,
 High Schools have access control on 12 doors.
 Facilities have been assessed via the attached scoring matrix.

C Area Notification:

(Public Address Systems/Intercoms)

Provide IP access to intercom systems at all schools. Gives access to security to perform mass notification from a central location.

----- Area notification is not provided. -----

D Visitor Management:

Provide a visitor management system at all schools that tie back to a central location. This will give the security department the ability to limit access at multiple facilities as well as perform analytics and background checks on people who are accessing WCPSS facilities.

----- Visitor Management is not provided. -----

E Entrance Buzzer System:

Elementary schools receive uniform entrance access system. System shall provide the ability to acknowledge visitors to the building and to see and communicate with them before granting access to the building.

System includes a closed circuit camera, intercom, and electronic door lock. One system shall be provided to each facility for their main visitor access location.

CIP 2013: WCPSS Security Summary Funding

<u>Summary</u>	<u>Complete Project</u>	<u>Reduced Needs</u>	<u>Priority Needs</u>	<u>Critical Needs</u>
A CCTV System Upgrade	\$ 11,652,599	\$ 11,652,599	\$ 7,482,193	\$ 4,698,945
B Access Control (Badging System)	\$ 3,791,727	\$ 3,791,727	\$ 2,580,789	\$ 1,725,864
C Area Notification (Public Address Systems/Intercoms)	\$ 1,007,062	\$ -	\$ -	\$ -
D Visitor Management	\$ 1,028,620	\$ -	\$ -	\$ -
E Entrance Buzzer System	\$ 665,215	\$ 665,215	\$ 665,215	\$ 665,215
Total	\$ 18,145,223	\$ 16,109,541	\$ 10,728,197	\$ 7,090,024

FURNITURE REPLACEMENT NEEDS FOR NEXT BOND PROGRAM

	Notes	
Furniture cost per square foot for new elementary school	1	\$6.68
Furniture cost per square foot for new middle school	1	\$6.54
Furniture cost per square foot for new high school	1	\$5.60
Assumed replacement cost per square foot for furniture in schools in the system		\$6.00
Assumed square footage as of the beginning of 2013-2014 school year		22,391,944
Cost for new furniture in entire school system		\$134,351,664
Using replacement cycle of 40 years, generates yearly needs of	2	\$3,358,792

Note:

- 1) Furniture costs are based on spring 2012 pricing
- 2) Typical furniture replacement cycle is 20 years. Major campuswide renovation projects every 40 years, per bond assumptions, do significant furniture replacement every other 20 year furniture replacement cycle.
- 3) Furniture request in CIP 2006 was \$1,413,000 per year (for 3 years), but was reduced to \$419K per year due to funding limitations.
- 4) Actual expenditures have been approx. \$209K per year since original CIP 2006 stretched from original 3 years to current 6 years.
- 5) Approx. \$350K per year has been spent by Purchasing on growth and other replacement needs. With budget cuts, furniture that was previously purchased with school discretionary funds can no longer be purchased.
- 6) Furniture replacement requests are much more than available funding

Instructional Equipment Replacement

Department - Item	Price	Grade	Cycle (yrs)	# Classrooms - sets	Cycle Total	Year Total
Elementary Social Studies						
16" First Globe	\$ 215.00	K	5	525	\$ 112,875.00	\$ 22,575.00
K-1 Class Pack consisting of 16" First Globe and US/World First Map	\$ 499.00	1	5	525	\$ 261,975.00	\$ 52,395.00
Class Pack consisting of 16" Readiness Globe and US/World Readiness Map	\$ 499.00	2-3	5	945	\$ 471,555.00	\$ 94,311.00
Class Pack consisting of 16" Sculptural Relief Globe and US/World Sculptural Relief Map	\$ 499.00	4-5	5	840	\$ 419,160.00	\$ 83,832.00
North Carolina Wall Map	\$ 199.00	4	10	420	\$ 83,580.00	\$ 8,358.00
Middle School Social Studies						
World Map, European Map, South America Map (on 1 roller)	\$ 499.00	6	5	102	\$ 50,898.00	\$ 10,179.60
Map Set - World, Africa, Asia, Australia & Middle East	\$ 625.00	7	5	102	\$ 63,750.00	\$ 12,750.00
16" Globe	\$ 215.00	7	5	102	\$ 21,930.00	\$ 4,386.00
Class Pack consisting of 16" Sculptural Relief Globe and US/World Sculptural Relief Map	\$ 499.00	8	5	102	\$ 50,898.00	\$ 10,179.60
High School Social Studies						
Adv. P/P World Map (70")	\$ 179.00	9-12	5	68	\$ 12,172.00	\$ 2,434.40
Adv. P/P US Map (70")	\$ 179.00	9-12	5	68	\$ 12,172.00	\$ 2,434.40
16" Adv. P/P Globes	\$ 204.00	9-12	5	68	\$ 13,872.00	\$ 2,774.40
Adv. P/P World Maps (70")	\$ 179.00	9-12	5	68	\$ 12,172.00	\$ 2,434.40
Adv. Phy/Pol US/World/Ak/16 Globe Combo	\$ 459.00	9-12	5	68	\$ 31,212.00	\$ 6,242.40
Elementary Math						
North Carolina Primary Manipulative Kit (3 per school)	\$ 329.75	K-2	5	315	\$ 103,871.25	\$ 20,774.25
North Carolina Intermediate Manipulative Kit (3 per school)	\$ 359.50	3-5	5	315	\$ 113,242.50	\$ 22,648.50
TI 15 Calculator (set of 10 3 - per classroom) (15%)	\$ 122.39	3-5	1	708	\$ 86,652.12	\$ 86,652.12
TI 10 Calculator - 30 per classroom (15%)	\$ 9.40	K-2	1	7000	\$ 65,800.00	\$ 65,800.00
Middle School Math						
TI 73 Graphing Calculator (set of 10)	\$ 666.00	6-8	5	803	\$ 534,798.00	\$ 106,959.60
TINspire Calculators (set of 10)	\$ 1,316.00	7-8	5	386	\$ 507,976.00	\$ 101,595.20
High School Math						
TINspire Calculators (set of 10)	\$ 1,316.00	9-12	5	486	\$ 639,576.00	\$ 127,915.20
TI-34 Math/Sci Calculator	\$ 14.79	9-12	5	810	\$ 11,979.90	\$ 2,395.98
Elementary Art - Music						
Xylophone (soprano)	\$ 275.00	S	10	105	\$ 28,875.00	\$ 2,887.50
Xylophone (bass)	\$ 769.00	S	10	105	\$ 80,745.00	\$ 8,074.50
Xylophone (alto)	\$ 375.00	S	10	105	\$ 39,375.00	\$ 3,937.50
Metallophone (soprano)	\$ 271.00	S	10	105	\$ 28,455.00	\$ 2,845.50
Metallophone (bass)	\$ 790.00	S	10	105	\$ 82,950.00	\$ 8,295.00
Metallophone (alto)	\$ 362.00	S	10	105	\$ 38,010.00	\$ 3,801.00
Middle School Art - Theatre - Band (based on Rolesville MS Bid Prices)						
Theatre - Stage Sound Equipment	\$ 8,000.00	S	10	32	\$ 256,000.00	\$ 25,600.00
Theatre - Stage Lighting Equipment	\$ 12,000.00	S	12	32	\$ 384,000.00	\$ 32,000.00
Piccolo	\$ 405.00	S	15	64	\$ 25,920.00	\$ 1,728.00
Flute	\$ 369.00	S	15	64	\$ 23,616.00	\$ 1,574.40
Oboe	\$ 1,599.00	S	15	96	\$ 153,504.00	\$ 10,233.60
Clarinet	\$ 759.00	S	15	32	\$ 24,288.00	\$ 1,619.20
Bassoon	\$ 3,675.00	S	15	96	\$ 352,800.00	\$ 23,520.00
Bass Clarinet	\$ 1,525.00	S	15	128	\$ 195,200.00	\$ 13,013.33
Alto Sax	\$ 1,609.00	S	15	32	\$ 51,488.00	\$ 3,432.53
Tenor Sax	\$ 1,067.00	S	15	64	\$ 68,288.00	\$ 4,552.53
Baritone Sax	\$ 3,584.00	S	15	64	\$ 229,376.00	\$ 15,291.73
Trumpet	\$ 573.00	S	20	64	\$ 36,672.00	\$ 1,833.60
Trombone	\$ 521.00	S	20	32	\$ 16,672.00	\$ 833.60
French Horn	\$ 1,759.00	S	20	160	\$ 281,440.00	\$ 14,072.00
Euphonium	\$ 1,287.00	S	20	160	\$ 205,920.00	\$ 10,296.00
Tuba	\$ 1,811.00	S	20	160	\$ 289,760.00	\$ 14,488.00
Tom Tom Set	\$ 1,389.00	S	12	32	\$ 44,448.00	\$ 3,704.00
Timbales Set	\$ 242.00	S	12	32	\$ 7,744.00	\$ 645.33
Gong & Stand	\$ 726.00	S	10	32	\$ 23,232.00	\$ 2,323.20

Instructional Equipment Replacement

Department - Item	Price	Grade	Cycle (yrs)	# Classrooms - sets	Cycle Total	Year Total
Chimes Set	\$ 2,929.00	S	12	32	\$ 93,728.00	\$ 7,810.67
Timpani set of 4 (Fiberglass)	\$ 9,068.00	S	15	32	\$ 290,176.00	\$ 19,345.07
Bass Drum & stand	\$ 1,095.00	S	10	32	\$ 35,040.00	\$ 3,504.00
Snare Drum w/ stand	\$ 280.00	S	10	64	\$ 17,920.00	\$ 1,792.00
Cymbals	\$ 305.00	S	10	64	\$ 19,520.00	\$ 1,952.00
Bells	\$ 797.00	S	15	32	\$ 25,504.00	\$ 1,700.27
Xylophone	\$ 1,611.00	S	15	32	\$ 51,552.00	\$ 3,436.80
Vibraphone	\$ 2,988.00	S	15	32	\$ 95,616.00	\$ 6,374.40
High School Art - Theatre - Band (based on Heritage HS bid prices inflated 6%)						
Theatre - Stage Sound Equipment	\$ 17,500.00	S	10	20	\$ 350,000.00	\$ 35,000.00
Theatre - Stage Lighting Equipment	\$ 22,500.00	S	12	20	\$ 450,000.00	\$ 37,500.00
Stage Curtains	\$ 10,000.00	S	15	20	\$ 200,000.00	\$ 13,333.33
Baritone	\$ 1,475.00	S	20	20	\$ 29,500.00	\$ 1,475.00
Bass Clarinet	\$ 1,207.00	S	15	80	\$ 96,560.00	\$ 6,437.33
Bass Trombone	\$ 1,547.00	S	20	20	\$ 30,940.00	\$ 1,547.00
Bassoon	\$ 4,754.00	S	15	80	\$ 380,320.00	\$ 25,354.67
Alto Saxophone	\$ 1,455.00	S	15	60	\$ 87,300.00	\$ 5,820.00
Latin Percussion Bongo w/ stand	\$ 105.00	S	10	20	\$ 2,100.00	\$ 210.00
Musser Chimes	\$ 3,250.00	S	15	20	\$ 65,000.00	\$ 4,333.33
Concert Bass Drum	\$ 1,095.00	S	12	20	\$ 21,900.00	\$ 1,825.00
Concert Bells 2.5 octave	\$ 916.00	S	15	20	\$ 18,320.00	\$ 1,221.33
Orchestra Bells	\$ 735.00	S	15	20	\$ 14,700.00	\$ 980.00
Concert Cymbal Stand	\$ 291.00	S	15	20	\$ 5,820.00	\$ 388.00
Concert Snare Drum	\$ 420.00	S	10	40	\$ 16,800.00	\$ 1,680.00
Concert Snare Stand	\$ 62.00	S	10	40	\$ 2,480.00	\$ 248.00
Latin Percussion Congas Aspire w/ stand	\$ 297.00	S	10	20	\$ 5,940.00	\$ 594.00
Copper Timpani set 23, 26, 28, 32	\$ 9,500.00	S	20	20	\$ 190,000.00	\$ 9,500.00
Dark Crash 16" Cymbal	\$ 172.00	S	10	20	\$ 3,440.00	\$ 344.00
Dark Crash 18" Cymbal	\$ 210.00	S	10	20	\$ 4,200.00	\$ 420.00
China Boy Cymbal	\$ 155.00	S	10	40	\$ 6,200.00	\$ 620.00
Suspended Cymbal	\$ 150.00	S	10	20	\$ 3,000.00	\$ 300.00
Fr. Crash Cymbal Pair	\$ 299.00	S	10	20	\$ 5,980.00	\$ 598.00
18" Viennese Crash Cymbal Pair	\$ 301.00	S	10	20	\$ 6,020.00	\$ 602.00
Gr. Crash Cymbal Pair Sus.	\$ 457.00	S	10	20	\$ 9,140.00	\$ 914.00
Double Braced Cymbal Stand	\$ 89.00	S	10	20	\$ 1,780.00	\$ 178.00
8D Frech Horn	\$ 2,550.00	S	20	100	\$ 255,000.00	\$ 12,750.00
Eb Contra Alto Clarinet	\$ 1,903.00	S	15	40	\$ 76,120.00	\$ 5,074.67
Euphonium	\$ 1,416.00	S	20	60	\$ 84,960.00	\$ 4,248.00
Fiberglass Timpani Set	\$ 6,500.00	S	10	20	\$ 130,000.00	\$ 13,000.00
30" Gong	\$ 519.00	S	15	20	\$ 10,380.00	\$ 692.00
Marching Baritone	\$ 1,415.00	S	20	40	\$ 56,600.00	\$ 2,830.00
Mellophone	\$ 1,091.00	S	20	60	\$ 65,460.00	\$ 3,273.00
Marimba	\$ 2,414.00	S	12	20	\$ 48,280.00	\$ 4,023.33
Fox Oboe	\$ 5,580.00	S	15	40	\$ 223,200.00	\$ 14,880.00
Humes & Berg Percussion Cabinet	\$ 1,165.00	S	15	20	\$ 23,300.00	\$ 1,553.33
Piccolo	\$ 510.00	S	10	60	\$ 30,600.00	\$ 3,060.00
20" Ride Cymbal	\$ 239.00	S	20	20	\$ 4,780.00	\$ 239.00
Set of 4 Concert Toms, 13, 14, 15, 16	\$ 652.00	S	12	20	\$ 13,040.00	\$ 1,086.67
Sousaphone	\$ 5,798.00	S	15	60	\$ 347,880.00	\$ 23,192.00
Tenor Sax	\$ 1,071.00	S	20	40	\$ 42,840.00	\$ 2,142.00
3/4 size Tuba	\$ 2,744.00	S	20	20	\$ 54,880.00	\$ 2,744.00
Tuba	\$ 4,315.00	S	20	80	\$ 345,200.00	\$ 17,260.00
Vibraphone	\$ 3,544.00	S	15	20	\$ 70,880.00	\$ 4,725.33
Xylophone	\$ 1,807.00	S	15	20	\$ 36,140.00	\$ 2,409.33
Drum Set	\$ 750.00	S	10	20	\$ 15,000.00	\$ 1,500.00
Media						
Digital Camera	\$ 139.00	K-12	3	507	\$ 70,473.00	\$ 23,491.00
Library Books	\$ 3,000.00	K-12	1	169	\$ 507,000.00	\$ 507,000.00
AVCarts	\$ 159.00	K-12	8	1014	\$ 161,226.00	\$ 20,153.25
Middle School Science						
National CLED Microscope	\$ 165.75	6-8	15	1540	\$ 255,255.00	\$ 17,017.00

Instructional Equipment Replacement

Department - Item	Price	Grade	Cycle (yrs)	# Classrooms - sets	Cycle Total	Year Total
Stereo Microscope	\$ 224.25	6-8	15	108	\$ 24,219.00	\$ 1,614.60
Scout Pro Balance	\$ 133.17	6-8	7	824	\$ 109,732.08	\$ 15,676.01
Scholar Hot Plate	\$ 118.00	6-8	10	824	\$ 97,232.00	\$ 9,723.20
Triple Beam Balance	\$ 161.69	6	10	38	\$ 6,144.22	\$ 614.42
High School Science						
National #155 Microscope	\$ 235.30	9-12	20	640	\$ 150,592.00	\$ 7,529.60
National 156S Microscope	\$ 363.35	9-12	20	300	\$ 109,005.00	\$ 5,450.25
National 416-TBL-10 Microscope	\$ 276.25	9-12	20	300	\$ 82,875.00	\$ 4,143.75
National #161 Microscope	\$ 438.10	9-12	20	44	\$ 19,276.40	\$ 963.82
Lab Drying/Sterilizing Oven	\$ 480.00	9-12	10	22	\$ 10,560.00	\$ 1,056.00
Electronic Balance	\$ 65.00	9-12	7	300	\$ 19,500.00	\$ 2,785.71
Corning Stirrer/Hot Plate	\$ 350.00	9-12	7	64	\$ 22,400.00	\$ 3,200.00
vacuum/pressure pump	\$ 980.00	9-12	7	22	\$ 21,560.00	\$ 3,080.00
Elementary Language Arts						
Book Supplement and Replacement Funds	\$ 3,000.00	K-5	1	105	\$ 315,000.00	\$ 315,000.00
Middle School English/Language Arts						
Book Supplement and Replacement Funds	\$ 3,200.00	6-8	1	37	\$ 118,400.00	\$ 118,400.00
High School English & Literature						
Book Supplement and Replacement Funds	\$ 3,700.00	9-12	1	28	\$ 103,600.00	\$ 103,600.00
World Languages						
Supplementary Materials	\$ 750.00	9-12	1	28	\$ 21,000.00	\$ 21,000.00

\$ 13,334,105.47 \$ 2,560,148.60

Assumptions

105 elementary (incl Hilburn)
 38 middle (incl YMLA, YWLA, Hilburn, RiverOaks, Vernon - limited enrollments)
 28 high (incl 4 EWHS, YMLA, YWLA & Longview & Phillips ltd enr)
 5 special optional

BOE space standards - Elementary 36 TS, Middle 60 TS, High 83 TS

Enrollment 20 day 2012-13 SY - 149,508

Done as per pupil allocation this is \$17.13 per pupil per yr

MOBILE/MODULAR CLASSROOM RELOCATIONS

Average cost to relocate a single mobile unit	\$60,000
Average cost per classroom to relocate modular units	\$54,000
Assumed number of moves per year	35
Amount needed per year	\$1,962,000

Assumptions

- 1) Moves will be 1/3 single units and 2/3 modular units
- 2) Mobile/modular use for swing space will be in the project cost

Public Improvements

Actual Expenditures (as of 2/21/13)		Actual cost when expended	Year bid	Actual cost adjusted to spring 2013	Cost with 20% increased scope factor
Banks Rd Elem		\$ 1,169,078	2007	\$ 1,075,552	
Laurel Park Elem		\$ 229,110	2007	\$ 210,781	
Mills Park Elementary	3,7	\$ 1,115,887	2007	\$ 1,026,616	
River Bend Elem		\$ 259,622	2007	\$ 238,852	
Sycamore Creek Elementary	3	\$ 3,079,122	2007	\$ 2,832,792	
Alston Ridge Elementary		\$ 2,159,496	2008	\$ 2,008,331	
Herbert Akins Rd. Elementary		\$ 854,617	2008	\$ 794,794	
Lake Myra Elementary	6	\$ -	2008		
Walnut Creek Elementary		\$ 579,341	2010	\$ 643,069	
Average elementary (of ones with expenditures)				\$ 1,103,848	\$ 1,324,618
Wendell Middle	4	\$ -	2007		
Holly Grove Middle	4	\$ -	2008		
Mills Park Middle	3,7	\$ 1,231,053	2008	\$ 1,144,879	
Rolesville Middle		\$ 3,667,723	2010	\$ 4,071,173	
Average middle (of ones with expenditures)				\$ 2,608,026	\$ 3,129,631
Heritage High	8	\$ 1,489,182	2007	\$ 1,370,047	
Rolesville High	8	\$ 3,278,598	2011	\$ 3,508,100	
Average high				\$ 2,439,074	\$ 2,926,888
Renovation Projects					
Lacy Elementary	2,8	\$ 329,779	2008	\$ 296,801	
Smith Elementary	2	\$ 390,597	2008	\$ 351,537	
Wilburn Elementary	2	\$ 344,593	2010	\$ 368,715	
East Wake High	2	\$ 302,797	2007	\$ 269,489	
Wake Forest Rolesville High	2	\$ 276,571	2009	\$ 304,228	
Average renovation (of ones with expenditures)				\$ 318,154	\$ 381,785
Schools not included in analysis					
Bryan Road Elementary	2	\$ 26,912		On hold	
Abbotts Creek Elementary	2	\$ 53,800		In design	
H6 on Forestville Road	9	\$ 525,719		Abandoned project	
M8 Middle	2	\$ 51,889		In design	
Panther Creek High (for mobile capacity increase)	2,5	\$ 1,091,543		Not conventional project	
Richland Creek Elementary		\$ 284,474		In design	
Scotts Ridge Elementary	2	\$ 73,200		In design	
West Apex High		\$ 179,270		In design	

Notes:

- 1 Money spent for offsite at elementary schools increased 160%, middles 90%, and highs 70% from what was budgeted for CIP 2006 based on PLAN 2004 offsite costs. Therefore a 20% increase factor is
- 2 No funds were budgeted for existing schools, mobiles, or future schools.
- 3 Municipality provided offsite funding also that is not shown here.
- 4 Prior projects provided needed offsite infrastructure.
- 5 Original estimated cost was \$1.4M. The bid amount was less.
- 6 Developer provided offsite infrastructure.
- 7 Middle school benefited from elementary being constructed first. Therefore \$750K moved from elementary to middle expenditures.
- 8 Some onsite infrastructure is considered offsite due to the function not primarily supporting the school.
- 9 Funds were expended on this site prior to selecting another site

PROGRAM MANAGEMENT FEE PERCENTAGE SCENARIOS

Assumptions:

Current program management funds are exhausted in summer 2014 and next bond funding would immediately follow
 Next bond vote is Fall 2013, but funds are not available until August 2014,
 Program management percentages are calculated each year, although bond programs will take 2 years after the bond term to complete the majority of the work
 (minor expenditures will continue even longer)
 Program management request is for 1 year longer than stated bond program duration in order to allow for uncertainty in timing of the subsequent program
 Number of personnel in various scenarios is based on past experience during CIP 2006
 Average salary and benefits for typical personnel expense is \$85,000 per year for scenario 1&2 and \$80,000 for scenarios 3&4

Scenario 1	\$100M/year for 2 years - requires	44 people						2021		
		2012	2013	2014	2015	2016	2017		2018	2019
Personnel	\$3,740,000	\$3,852,200	\$3,967,766	\$4,086,799	\$4,209,403	\$4,335,685	\$4,465,756	\$4,599,728	\$4,737,720	\$4,879,852
Building lease	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Misc. contracts	\$200,000	\$206,000	\$212,180	\$218,545	\$225,102	\$231,855	\$238,810	\$245,975	\$253,354	\$260,955
	\$4,140,000	\$4,258,200	\$4,379,946	\$4,505,344	\$4,634,505	\$4,767,540	\$4,904,566	\$5,045,703	\$5,191,074	\$5,340,806
		Percentage by year	4.38%	4.51%						
		Program percentage (1 year past bond term)	6.76%							
Scenario 2										
\$150M/year for 2 years - requires			50 people							
Personnel	\$4,250,000	\$4,377,500	\$4,508,825	\$4,644,090	\$4,783,412	\$4,926,915	\$5,074,722	\$5,226,964	\$5,383,773	\$5,545,286
Building lease	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Misc. contracts	\$200,000	\$206,000	\$212,180	\$218,545	\$225,102	\$231,855	\$238,810	\$245,975	\$253,354	\$260,955
	\$4,650,000	\$4,783,500	\$4,921,005	\$5,062,635	\$5,208,514	\$5,358,770	\$5,513,533	\$5,672,939	\$5,837,127	\$6,006,241
		Percentage by year	3.28%	3.38%						
		Program percentage (1 year past bond term)	5.06%							
Scenario 3										
\$200M/year for 3 years - requires			65 people							
Personnel	\$5,200,000	\$5,356,000	\$5,516,680	\$5,682,180	\$5,852,646	\$6,028,225	\$6,209,072	\$6,395,344	\$6,587,204	\$6,784,821
Building lease	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Misc. contracts	\$300,000	\$309,000	\$318,270	\$327,818	\$337,653	\$347,782	\$358,216	\$368,962	\$380,031	\$391,432
	\$5,700,000	\$5,865,000	\$6,034,950	\$6,209,999	\$6,390,298	\$6,576,007	\$6,767,288	\$6,964,306	\$7,167,235	\$7,376,253
		Percentage by year	3.02%	3.10%	3.20%					
		Program percentage (1 year past bond term)	4.20%							
Scenario 4										
\$300M/year for 3 years - requires			80 people							
Personnel	\$6,400,000	\$6,592,000	\$6,789,760	\$6,993,453	\$7,203,256	\$7,419,354	\$7,641,935	\$7,871,193	\$8,107,329	\$8,350,548
Building lease	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Misc. contracts	\$300,000	\$309,000	\$318,270	\$327,818	\$337,653	\$347,782	\$358,216	\$368,962	\$380,031	\$391,432
	\$6,900,000	\$7,101,000	\$7,308,030	\$7,521,271	\$7,740,909	\$7,967,136	\$8,200,150	\$8,440,155	\$8,687,360	\$8,941,980
		Percentage by year	2.44%	2.51%	2.58%					
		Program percentage (1 year past bond term)	3.39%							

STARTUP DESIGN FUNDING REQUIREMENT BY YEAR ASSUMING FALL 2016 BOND AND SUMMER 2017 FUNDS

School	Comments	Startup design for next bond For schools opening in		
		2018	2019	2020
4 Elementary to open in 2018	Design starts Feb 2016		3.5	
4 Elementary to open in 2019	Design starts Feb 2017			1.8

STARTUP DESIGN NEEDED IN NEXT BOND FOR NEW	\$5.3M
STARTUP DESIGN NEEDED IN NEXT BOND FOR RENO	\$8.8M

Assumptions:

- 1) Funding will not be available until the summer 2017 after the fall 2016 bond
- 2) Number of new school and renovation projects initially in the next building program
- 3) Design of reno projects is approx. \$12/sf for 550,000sf needing to be renovated per year. The design cycle is typically 18 months and therefore an additional 6 months of the 18 month cycle needs to be included.
- 4) The 4 elementary schools to open in 2019 only need partial funding before the next bond

CIP 2014 Projected Land Acquisition Costs

	Proposed Opening Year	Priority	Project	CIP 2006 Cost (Owned Site)	CIP 2014 Estimated Cost/Acre	CIP 2014 Site Acreage	CIP 2014 Estimated Site Cost (Uninflated)
Elementary							
1	2016	1A	E-20	\$675,540			
2	2016	1B	E-32	\$3,279,360			
3	2017	3	E-45		\$70,500	20	\$1,410,000
4	2017	4	E-37		\$120,000	20	\$2,400,000
5	TBD	5	E-40		\$70,500	20	\$1,410,000
6	TBD	6A	E-42	\$750,000			
7	TBD	6B	E-36		\$70,500	20	\$1,410,000
8	TBD	8A	E-24	\$2,477,558			
9	TBD	8B	E-41	\$773,280			
10	TBD	10	E-46		\$70,500	20	\$1,410,000
11	TBD	TBD	E-28		\$70,500	20	\$1,410,000
12	TBD	TBD	E-29	@ East Wake HS			
13	TBD	TBD	E-31	\$2,644,650			
14	TBD	TBD	E-33		\$50,000	20	\$1,000,000
15	TBD	TBD	E-35	\$908,000			
16	TBD	TBD	E-38		\$70,500	20	\$1,410,000
17	TBD	TBD	E-		\$70,500	20	\$1,410,000
18	TBD	TBD	E-		\$70,500	20	\$1,410,000
19	TBD	TBD	E-		\$70,500	20	\$1,410,000
20	TBD	TBD	E-		\$70,500	20	\$1,410,000
21	TBD	TBD	E-		\$70,500	20	\$1,410,000
22	TBD	TBD	E-		\$70,500	20	\$1,410,000
23	TBD	TBD	E-		\$70,500	20	\$1,410,000
24	TBD	TBD	E-		\$70,500	20	\$1,410,000
25	TBD	TBD	E-		\$70,500	20	\$1,410,000
26	TBD	TBD	E-		\$70,500	20	\$1,410,000
27	TBD	TBD	E-		\$70,500	20	\$1,410,000
28	TBD	TBD	E-		\$70,500	20	\$1,410,000
29	TBD	TBD	E-		\$70,500	20	\$1,410,000
Middle							
1	2016	1	M-8	\$3,500,000			
2	2016	2A	M-11	\$1,195,500			
3	TBD	2B	M-13	\$2,896,000			
4	TBD	4A	M-12	\$1,572,960			
5	TBD	4B	M-14	\$1,250,000			
6	TBD	6	M-16	\$5,341,180			
High							
1	2016	1A	H-7	\$8,761,450			
2	2016	1B	H-8	\$2,876,300			
3	TBD	3	H-11		\$120,000	64	\$7,680,000
4	TBD	4	H-14		\$120,000	64	\$7,680,000
5	TBD	5	H-12		\$70,500	64	\$4,512,000
Transportation							
1	TBD	TBD	TC-East	\$720,500			
2	TBD	TBD	TC-South	@ Middle Creek			
3	TBD	TBD	TC-West		\$70,500	25	\$1,762,500
4	TBD	TBD	TC-North		\$70,500	25	\$1,762,500
SUBTOTAL: ESTIMATED SITE COSTS (UNINFLATED)							\$53,587,000

CIP 2014 Projected Land Acquisition Costs (continued)

Incidental Costs						
	Due Diligence*			Costs/Site	# Sites	
	ES			\$37,100	21	\$779,100
	MS			\$46,100	0	\$0
	HS			\$62,600	3	\$187,800
	TC			\$37,100	2	\$74,200
	Closing Costs**				26	\$419,218
	Total					\$1,460,318
TOTALS:				\$39,622,278	\$83,153	662
						\$55,047,318

Site Type	Owned	Needed	Total	
ES	8	21	29	
MS	6	0	6	
HS	2	3	5	
TC	2	2	4	
Total	18	26	44	

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Notes:

* Due diligence includes costs of procuring an appraisal, boundary survey, Phase I ESA, streams and wetlands delineation, preliminary geotechnical exploration and concept plans.

	ES	MS	HS
Appraisal	\$ 3,500	\$ 3,500	\$ 3,500
Boundary survey	\$ 9,000	\$ 12,500	\$ 15,000
Phase 1 ESA	\$ 2,600	\$ 2,600	\$ 2,600
Streams/Wetlands delineation	\$ 5,000	\$ 6,000	\$ 7,500
Geotech	\$ 15,000	\$ 19,500	\$ 32,000
Concept Plans	\$ 2,000	\$ 2,000	\$ 2,000
Total:	\$ 37,100	\$ 46,100	\$ 62,600

** Closing Costs include recording fees, title insurance premium, pro rata ad valorem taxes, and closing attorney fees

Recording Fees	\$ 667	(\$26/site)
Title Insurance Premiums	\$ 53,587	(Average premium of 0.10% of land cost)
Taxes	\$ 273,964	(6 months at average ad valorem of 12 municipalites X land cost)
Closing Attorney Fees	\$ 91,000	(\$3,500 X 26 sites)
Total	\$ 419,218	

CIP 2006 included \$63,321,355 in land acquisition funds, of which \$42,951,500 was included in the original bond budget, and \$20,369,855 of which was moved to the land budget from Building Program Reserves by the BOC. \$9,189,363 was reallocated from land acquisition to the County to fund the sinking fund to offset Crossroads lease costs, which to the extent repaid by the sale of the related surplus properties, will be reallocated to building projects. \$1,732,071 was reallocated from land acquisition to savings with an anticipated use on building projects. The net amount of the land budget after all allocations and reallocations is \$52,399,921.

Facility Assessments

Responsible for assessing one seventh of WCPSS sites and buildings every year.

Data collected is used to determine and quantify capital facility needs.

Additional responsibilities include inventory of systems and equipment for input into the asset management system. (Maximo)

Ensuring consistency between FDC & FMO nomenclature and databases.

4 positions – Total annual cost = \$270,050

2 – Sr. Admin. @ band 3 - 90% + benefits = \$168,800

2 – Database Mgr. non IT @ grade 26-10 + benefits = \$101,250

Supplemental annual assessment contract resource = \$85,000

Annual Facility Assessment Budget Estimate \$355,050