## FAYETTEVILLE POLICIES AND PROCEDURES

## **Construction-Project Cost Estimating Guideline**

Below is a building new construction/renovation cost estimating guideline developed to assist grant and development authorities as well as all other University departments in the preparation of project estimates for funding applications and/or proposed construction. The procedure and line item guidelines are only approximate, and any final project budgeting would need to be developed by the Facilities Management Design and Construction Services staff.

	<u>Budget Breakdown</u>	New	<b>Renovation</b>
1.	Construction – labor and material (includes demolition, utility connections, landscaping, parking lots, telecom systems, fixed equipment, building costs, etc., and would go up if any contingency funds below were spent on construction or other material items Approx. 65% Total Project Cost) a. Administration/offices	\$115/GSF	\$85/GSF
	b. Classrooms c. Wet Laboratories	\$115/GSF \$180/GSF	\$100/GSF \$180-\$225/GSF
2.	Contingency – held at 10% through project design and bidding. Typically allowed to go down to no less than 5% at award of construction to cover unforeseen construction problems.	10% Con	struction
3.	Fees – consultant fees on overall design, utilities, furnishings and equipment, building systems, site work, roadways and lots, any contingency expenditures, site representative, reimbursable expenses, etc. (Varies with the construction complexity and cost.)	6.75% Construc	ction 9% Construction
4.	Moveable Equipment and Furniture – building Construction non-fixed furnishings, etc does not include telecom support electronics, decorating, computers, etc.	5% Construction	n 4.5%
	Computers –occupant computer equip. (optional) ruction	1% Construction	n 0.5%
6. Constr	1 2	4% Construction	n 2.5%
7.	University Project Administration – Facilities	1.25% Al	l Invoices

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	Management construction administration fees. (% of invoices of items 1, 2, 3, and 4 above)		
8.	Other Costs – non-energy utilities (water, sewer Construction systems, etc.), trash, special systems (A/V, security, telephone, TV, etc.), advertising, construction surveying, testing, soil borings, custodial equipment, telecom support electronics, etc.	1% Construction	.75%
9. Constru	Moving Costs – moving occupants or related shifting action of personnel.	1% Construction	1.5%
10.	Project Escalation – 3% per year from date of estimate on construction, furniture, and other costs.	e 3% Per Year Total Project Cost	
11.	Total Project Cost = (1 - 10)	All above costs added together.	
12.	Capital Renewal Endowment – facility replacement funding	25% Construction	
		5% Total Project Cost	
13.	Financing Costs (5% for 20 years)	5% Total Pro	ject Cost
13. 14.		5% Total Pro <b>2000e costs (11 – 13) a</b>	-
			dded together.
14.	Total Bond Amount All a	oove costs (11 – 13) a \$80,000 per Mi	dded together.
14. 15. ——————————————————————————————————	Total Bond Amount All all   Annual Debt Service (5% for 20 years) Sample Project Total Budgets   Sample Project Total Budgets   struction of a new 35,778 GSF laboratory building to be	bove costs (11 – 13) a \$80,000 per Mi \$ bid in 4 years.	dded together.
14. 15. 	Total Bond Amount All all   Annual Debt Service (5% for 20 years) Sample Project Total Budgets	<b>bove costs (11 – 13) a</b> \$80,000 per Mi bid in 4 years. \$ 4 above) ms 1 thru 9 above)]	dded together.

14. Total Bond Amount (items 11 thru 13 added together)	\$11,620,281
15.Annual Debt Service (\$80,000 per Million \$ Debt)	\$929,600

B. Renovation of 6440 GSF of classroom spaces in a building to be started in 1 year.

1. Construction (classrooms - \$100/GSF)	\$644,000
2. Contingency (10% Construction)	64,400
3. Fees (9% Construction)	57,960
4. Moveable Equipment and Furniture (4.5% Construction)	28,980
5. Computers (0.5% Construction)	3,220
6. Remote Utilities (2.5% Construction)	16,100
7. University Project Administration (1.25% items 1, 2, 3, and 4 above)	9,942
8. Other Costs (0.75% Construction)	4,830
9. Moving Costs (1.5% Construction)	9,660
10.Project Escalation	
$[\{(\text{total items 1 thru 9 above})/(103x1 \text{ yr})\} - (\text{total items 1 thru 9 above})]$	25,951
11. Total Project Cost (All above costs added together.)	\$865,043
12.Capital Renewal Endowment (25% Construction)	161,000
13.Financing Costs (5% Total Projects Cost)	43,252
14. Total Bond Amount (items 11 thru 13 added together)	
15.Annual Debt Service (\$80,000 per Million \$ Debt)	\$85,544

December 4, 2003