In North Carolina, the statutory responsibility for operating public schools is assigned to local boards of education. A board of education also has the legal responsibility and authority for entering into contracts for the design and construction of public school buildings within its jurisdiction.

Charged with these responsibilities, conscientious school boards and superintendents keep abreast of recent developments and trends in public education, utilize extensive professional resources and plan continuously for the improvement of educational programs and facilities.

We commend this Seventh edition of Schools of Interest to you. Since the first edition in 1971, these publications have served to stimulate effective and imaginative school planning and to strengthen and improve building programs. The staff of the Department of Public Instruction is available for consultation and assistance in all aspects of the planning process.

Bob Etheridge
State Superintendent

Charles H. Weaver
Assistant State Superintendent
Auxiliary Services
We are pleased to present examples of plans for buildings planned or constructed during the last few years. Selecting just a few schools for this publication from among the many notable designs constructed in North Carolina is difficult. There are many others which are worthy of presentation each time we prepare an issue of Schools of Interest. Almost all administrative districts have a new school or an addition to an older school which is of particular educational or architectural interest.

The schools presented here represent a wide range of educational philosophies and design solutions. These preferences and objectives blend with the capabilities of local design services and educational objectives to produce more variety than is ordinarily believed to be the case. Each community can express its own individuality and educational preferences. The public school planning process is remarkably responsive in this respect.

Building plan relationships are a matter of choice as well as tradition. Special program facilities are included or anticipated wherever local educational preferences dictate. Room sizes, arrangements and relationships can and do vary as much as the perceptions of educators, architects and school boards. The latest educational or architectural trends are frequently reflected in new school buildings. This variety of building design solutions is illustrative of the democratic complexity and responsiveness of public education.

The objective of this publication is to stimulate good planning. Staff members of School Planning are available to work with local superintendents and their boards of education toward this objective.

Karen S. Gulledge
Chief Consultant
School Planning
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- Windsor Elementary .................................... 3
- First Ward Elementary ................................. 4
- Northwest Elementary .................................. 5
- Roger R. Bell Elementary ............................. 6
- Hasty Elementary ....................................... 7
- Southwest Elementary .................................. 8
- Union Cross Elementary ............................... 9
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Lilesville Elementary

Administrative Unit ............................................ Anson County
Grade Organization ............................................. K-6
Approximate Capacity ........................................... 400
Opening Date .................................................... December 1990
Architects ....................................................... Boney Architects, Inc.
Landscape Architect ............................................ LandDesign Services

Structural Engineers ............................................. McKim & Creed
Mechanical Engineers ........................................... Cheatham & Associates
Electrical Engineers ............................................ Reece, Noland & McElrath
Square Footage ................................................... 64,000
Total Cost .......................................................... $4,733,307
Building Cost Per Square Foot ............................... $73.95
Mountain View Elementary

Administrative Unit .................................. Ashe County
Grade Organization ..................................... K-6
Approximate Capacity ................................... 700
Opening Date ........................................... Fall 1990
Architects ................................................ Howell Associates
Structural Engineers ................................. Robert T. Williams & Associates

Mechanical Engineers ............................... Associated Engineering Consultants
Electrical Engineers ................................. Associated Engineering Consultants
Square Footage ....................................... 81,319
Total Cost ............................................. $5,096,595
Site Development Cost .............................. $584,933
Building Cost Per Square Foot .................... $51.73
First Ward Elementary
Administrative Unit .................. Charlotte/Mecklenburg
Grade Organization .................. 4-6
Approximate Capacity .................. 800
Opening Date .................. Fall 1989
Architects ... The Morgan Adams Group, Murray Whisnant
Landscape Architect .................. The Morgan Adams Group
Structural Engineers .................. Structural Engineers, Inc.
Mechanical Engineers ... Professional Engineering Assocs.
Electrical Engineers .................. Steve W. Haas & Associates
Total Square Footage .................. 40,380
New Construction 18,534 sf, Renovation 21,846 sf
Total Cost .................. $2,078,739
Building Cost Per Square Foot .................. $51.47
<table>
<thead>
<tr>
<th>Administrative Unit</th>
<th>Charlotte-Mecklenburg</th>
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</thead>
<tbody>
<tr>
<td>Grade Organization</td>
<td>K-6</td>
</tr>
<tr>
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<tr>
<td>Opening Date</td>
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</tr>
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<td>Architects</td>
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<tr>
<td>Structural Engineers</td>
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<td>Mechanical &amp; Electrical Engineers</td>
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<td>Building Cost Per Square Foot</td>
<td>$46.14</td>
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</table>
Administrative Unit .............................................. Craven County
Grade Organization .................................................. K-5
Approximate Capacity .............................................. 625
Opening Date ......................................................... September 1986
Architects ............................................................. Stephens & Francis
Structural Engineers .................................................. GKC Associates
Mechanical Engineers ............................................. Buffaloe, Morgan & Associates
Electrical Engineers .................................................. Buffaloe, Morgan & Associates
Square Footage ....................................................... 56,854
Total Cost ............................................................. $3,158,621
Building Cost Per Square Foot .................................. $55.55
Hasty Elementary

Administrative Unit: Davidson County
Grade Organization: K-5
Approximate Capacity: 560
Opening Date: Fall 1989
Architects: Alred & Mercer
Landscape Architect: In House
Structural Engineers: Nallamala Engineers
Mechanical Engineers: Jeglinski Engineers, Inc.
Electrical Engineers: Jeglinski Engineers, Inc.
Square Footage: 52,000
Total Cost: $2,800,000
Building Cost Per Square Foot: $53.84
Administrative Unit: Forsyth County
Grade Organization: K-5
Approximate Capacity: 650
Opening Date: Fall 1991
Architects: Fred W. Butner, Jr., Associates
Landscape Architect: In House
Structural Engineers: Sutton-Kenney & Associates
Mechanical Engineers: Consultant Engineer Service
Electrical Engineers: William G. Robinson, Jr.
Square Footage: 77,108
Total Cost: $5,406,578
Building Cost Per Square Foot: $70.11
Gold Sand Elementary

Administrative Unit .............. Franklin County
Grade Organization ................. K-6
Approximate Capacity .............. 500
Opening Date ......................... August 1988
Architects ......................... Shawcroft-Taylor
Landscape Architect .............. LandDesign Services
Structural Engineers .......... Lasater-Hopkins
Mechanical and Electrical Engineers

Southeastern Engineering Associates
Square Footage .................... 52,897
Total Cost ......................... $3,629,278
Building Cost Per Square Foot .... $68.61
Youngsville Elementary

Administrative Unit: Franklin County
Grade Organization: K-8
Approximate Capacity: 600
Opening Date: January 1988
Architects: Shawcroft-Taylor
Landscape Architect: LandDesign Services
Structural Engineers: Lasater-Hopkins
Mechanical and Electrical Engineers: Southeastern Engineering Associates
Square Footage: 63,700
Total Cost: $4,078,458
Building Cost Per Square Foot: $64.03
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<td>McNeely Associates</td>
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<td>J. E. Greiner Company</td>
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<tr>
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<tr>
<td>Architects</td>
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Administrative Unit ................................................................. Union County
Grade Organization ................................................................. K-5
Approximate Capacity ............................................................... 500
Opening Date ................................................................. Fall 1991
Architects ................................................................. Martin Boal Anthony & Johnson
Structural Engineers ................................................................. Armfield
Mechanical Engineers ............................................................... Integrated Engineering Services
Electrical Engineers ............................................................... Integrated Engineering Services
Square Footage ................................................................. 53,230
Total Cost ................................................................. $4,400,000
Building Cost Per Square Foot ................................................................. $82.66
Administrative Unit .............................................. Wake County
Grade Organization .................................................. K-5
Approximate Capacity .................................................. 800
Opening Date .......................................................... Fall 1987
Architects ........................................................... Ballard McCredie Elliott Associates
Landscape Architect .................................................. McNeely Associates
Structural Engineers .................................................. Bigger & Agnew
Mechanical Engineers .................................................. Watco Engineers
Electrical Engineers ..................................................... Wells Electric
Square Footage .......................................................... 74,787
Total Cost ............................................................ $3,559,629
Building Cost Per Square Foot ........................................ $47.60
The cover photograph is of Vance Elementary School.
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<td>Watauga County</td>
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<td>Grade Organization</td>
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<td>Opening Date</td>
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<tr>
<td>Architects</td>
<td>Skinner, Lamm, Hood &amp; Highsmith</td>
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<td>Landscape Architect</td>
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<td>Structural Engineers</td>
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</table>
Legend
A = Sanctuary Structure
B = Upper School
C = Multi-purpose Building
D = Lower School
E = Maintenance Building

Administrative Unit .......... Private School in Craven County
Grade Organization .................. K-8
Approximate Capacity ................. 300
Opening Date .................. Fall 1991
Architects .................. Robert Winston Carr, Inc.
Structural Engineers .................. Gardner & Associates
Mechanical Engineers .................. Knott & Roberts
Electrical Engineers .................. Knott & Roberts
Square Footage .................. 29,891
Total Cost .................. $2,200,140
Building Cost Per Square Foot .................. $73.60
<table>
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<tr>
<th>Administrative Unit</th>
<th>Carteret County</th>
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<tbody>
<tr>
<td>Grade Organization</td>
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<tr>
<td>Approximate Capacity</td>
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<tr>
<td>Opening Date</td>
<td>Fall 1988</td>
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<tr>
<td>Architects</td>
<td>James B. Willis</td>
</tr>
<tr>
<td>Landscape Architect</td>
<td>Bill Glazer</td>
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<tr>
<td>Structural Engineers</td>
<td>Bigger &amp; Agnew</td>
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<td>Mechanical Engineers</td>
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Administrative Unit .................................................. Dare County
Grade Organization .................................................. 6-8
Approximate Capacity .............................................. 780
Opening Date ......................................................... Fall 1991
Architects ................................................................. Doggett Architects, Inc.
Landscape Architect ................................................ McKim & Creed

Structural Engineers ................................................. G K C Associates
Mechanical Engineers .............................................. Douglas Y. Perry Associates
Electrical Engineers ............................................... Douglas Y. Perry Associates
Square Footage ....................................................... 129,637
Building Cost ......................................................... $9,107,424
Building Cost Per Square Foot ................................. $70.25
<table>
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<tr>
<td>Approximate Capacity</td>
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<td>Opening Date</td>
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<tr>
<td>Architects</td>
<td>DePasquale, Thompson &amp; Wilson</td>
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<tr>
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<td>Cotter Coulter Associates</td>
</tr>
<tr>
<td>Structural Engineers</td>
<td>G K C Associates</td>
</tr>
<tr>
<td>Mechanical Engineers</td>
<td>Knott &amp; Roberts</td>
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<tr>
<td>Electrical Engineers</td>
<td>Knott &amp; Roberts</td>
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<tr>
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</table>
Administrative Unit: Franklin County
Grade Organization: 6-8
Approximate Capacity: 550
Opening Date: Fall 1991
Architects: Dove-Knight and Associates
Landscape Architect: Jerry Turner and Associates
Structural Engineers: W. H. Gardner, Jr. and Associates
Mechanical Engineers: Bass, Nixon and Kennedy, Inc
Electrical Engineers: Bass, Nixon and Kennedy, Inc
Square Footage: 92,360
Total Cost: $5,500,000
Building Cost Per Square Foot: $59.54
Administrative Unit: Greene County
Grade Organization: 6-8
Approximate Capacity: 700
Opening Date: January 1991
Architects: The East Group
Landscape Architect: Joel Moulin
Structural Engineers: The East Group
Mechanical Engineers: The East Group
Electrical Engineers: The East Group
Square Footage: 93,829
Total Cost: $5,593,579
Building Cost Per Square Foot: $59.61
Western Harnett Middle

Administrative Unit ............................................ Harnett County
Grade Organization ................................................ 6-8
Approximate Capacity ............................................. 850
Opening Date ...................................................... Fall 1990
Architects ......................................................... MacMillan & MacMillan
Landscape Architect ............................................. Ragsdale Consultants
Structural Engineers ............................................. Lasater-Hopkins
Mechanical Engineers ................................. Progressive Design Collaborative
Electrical Engineers .............................................. Progressive Design Collaborative
Square Footage ..................................................... 145,000
Total Cost .......................................................... $9,420,000
Building Cost Per Square Foot ....................... $64.96
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<td>Opening Date</td>
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<td>Architects</td>
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<td>Shultz Associates</td>
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<td>Electrical Engineers</td>
<td>Steve W. Haas &amp; Associates</td>
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<td>Square Footage</td>
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<td>Building Cost Per Square Foot</td>
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<td>Administrative Unit</td>
<td>Montgomery County</td>
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<td>Grade Organization</td>
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<td>Approximate Capacity</td>
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<td>Opening Date</td>
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<td>Architects</td>
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<td>Landscape Architect</td>
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<td>Structural Engineers</td>
<td>V. H. Patel Associates</td>
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<td>Mechanical Engineers</td>
<td>Schultz Associates</td>
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<td>Electrical Engineers</td>
<td>Steve W. Haas &amp; Associates</td>
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<td>Square Footage</td>
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Myrtle Grove Middle

Administrative Unit: New Hanover County
Grade Organization: 6-8
Approximate Capacity: 900
Opening Date: August 1988
Architects: Boney Architects, Inc.
Structural Engineers: McKim & Creed
Mechanical Engineers: McKim & Creed
Electrical Engineers: William B. Leland
Square Footage: 92,000
Total Cost: $4,863,310
Building Cost Per Square Foot: $52.86
Administrative Unit: Randolph County
Grade Organization: 6-8
Approximate Capacity: 700
Opening Date: Fall 1990
Architects: Dean L. Spinks
Landscape Architect: In House
Structural Engineers: Sutton-Kennerly & Associates
Mechanical & Electrical Engineers: Jack C. Dillard
Square Footage: 170,000
Total Cost: $7,200,000
Building Cost Per Square Foot: $42.35
Administrative Unit .......................................... Surry County
Grade Organization ........................................ 6-8
Approximate Capacity ..................................... 500
Opening Date ............................................. August 1990
Architects ................................................. Boney Architects, Inc.
Landscape Architect ...................................... LandDesign Services
Structural Engineers ..................................... Henry Von Oesen & Associates
Mechanical Engineers ................................... McKim & Creed
Electrical Engineers ..................................... William B. Leland
Square Footage ........................................... 86,000
Total Cost ................................................ $5,915,218
Building Cost Per Square Foot ....................... $68.78
Administrative Unit ........................................... Wake County
Grade Organization ........................................... K-5, 6-8, 9-12
Approximate Capacity ....................................... 3,200
   Elem 600  Middle 1,000  High 1,600
Opening Date ................................................. Elem 1992, Middle 1991, High 1993
Architects ..................................................... Milton Small
Landscape Architect ......................................... William G. Daniel & Associates
Structural Engineers ......................................... Lasater-Hopkins
Mechanical Engineers ....................................... Lasater-Hopkins
Electrical Engineers ......................................... Douglas Y. Perry Associates
Square Footage .............................................. 427,836
   Elem 57,683  Middle 138,170  High 231,983
Each component includes shared facilities
Total Construction Budget .................................. $33,085,455
Administrative Unit: Wake County
Grade Organization: 6-8
Approximate Capacity: 1,000
Opening Date: August 1989

Architects: Boney Architects, Inc.
Landscape Architect: LandDesign Services
Structural Engineers: McKim & Creed
Mechanical Engineers: McKim & Creed
Electrical Engineers: Reece Noland & McElrath
Square Footage: 135,000
Total Cost: $8,612,761
Building Cost Per Square Foot: $63.79
<table>
<thead>
<tr>
<th>Administrative Unit</th>
<th>Wake County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Organization</td>
<td>K-5 and 6-8</td>
</tr>
<tr>
<td>Approximate Capacity</td>
<td>Elem 600, Middle 1,000</td>
</tr>
<tr>
<td>Opening Date</td>
<td>Elem Fall 1991, Middle Fall 1992</td>
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<tr>
<td>Architects</td>
<td>Boney Architects, Inc.</td>
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<tr>
<td>Landscape Architect</td>
<td>Coulter Associates</td>
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<tr>
<td>Structural Engineers</td>
<td>McKim &amp; Creed</td>
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<tr>
<td>Mechanical Engineers</td>
<td>Cheatham &amp; Associates</td>
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<tr>
<td>Electrical Engineers</td>
<td>Reece, Noland &amp; McElrath</td>
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<tr>
<td>Square Footage</td>
<td>Elem 70,000, Middle 130,538</td>
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<tr>
<td>Total Cost</td>
<td>Elem $4,900,000, Middle $8,000,000</td>
</tr>
<tr>
<td>Building Cost Per Square Foot</td>
<td>Elem $70.00, Middle $61.28</td>
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</tbody>
</table>

(Elementary School Cost reflects site work for Middle School)
Administrative Unit: Beaufort County
Grade Organization: 9-12
Approximate Capacity: 750
Opening Date: August 1989
Architects: Boney Architects, Inc.
Landscape Architect: Capps & Associates
Structural Engineers: Henry Von Oeson & Associates
Mechanical Engineers: McKim & Creed
Electrical Engineers: William B. Leland
Square Footage: 128,000
Total Cost: $8,136,004
Building Cost Per Square Foot: $63.56
Administrative Unit: Craven County
Grade Organization: 9-12
Approximate Capacity: 2,500
Opening Date: Fall 1991
Architects: Stephens & Francis
Structural Engineers: GKC Associates
Mechanical Engineers: Buffaloe, Morgan & Associates
Electrical Engineers: Buffaloe, Morgan & Associates
Square Footage: 222,453
Total Cost: $13,978,500
Building Cost Per Square Foot: $62.83
<table>
<thead>
<tr>
<th>Administrative Unit</th>
<th>Durham County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Organization</td>
<td>9-12</td>
</tr>
<tr>
<td>Approximate Capacity</td>
<td>1,560</td>
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<tr>
<td>Opening Date</td>
<td>Fall 1991</td>
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<tr>
<td>Architects</td>
<td>DePasquale Thompson Wilson</td>
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<tr>
<td>Landscape Architect</td>
<td>Conover Associates</td>
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<tr>
<td>Structural Engineers</td>
<td>GKC Associates</td>
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<tr>
<td>Mechanical and Electrical Engineers</td>
<td>Knott &amp; Roberts</td>
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<tr>
<td>Square Footage</td>
<td>260,000</td>
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<tr>
<td>Total Cost</td>
<td>$17,000,000</td>
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<tr>
<td>Building Cost Per Square Foot</td>
<td>$65.38</td>
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</tbody>
</table>
Graham County High

Administrative Unit: Graham County
Grade Organization: 7-12
Approximate Capacity: 600
Opening Date: Fall 1992
Architects: Foy & Lee Associates
Landscape Architect: John Broadbrooks
Structural Engineers: Sutton-Kennerty & Associates
Mechanical Engineers: Kelso Regen Associates
Electrical Engineers: Fred Vreeland
Square Footage: 127,000
Total Cost: $8,000,000
Building Cost Per Square Foot: $62.99
Administrative Unit ........................................ Hammet County
Grade Organization ....................................... 9-12
Approximate Capacity ...................................... 1,900
Opening Date ............................................... Fall 1985
Architects ................................................. MacMillan & MacMillan
Landscape Architect ...................................... McNeely Associates
Structural Engineers ..................................... Lasater-Hopkins
Mechanical Engineers ................................. Progressive Design Collaborative
Electrical Engineers ................................. Progressive Design Collaborative
Square Footage ............................................. 238,000
Total Cost .................................................. $10,068,723
Building Cost Per Square Foot ....................... $42.30
Administrative Unit ........................................ Vance County
Grade Organization ........................................ 9-12
Approximate Capacity ..................................... 800
Opening Date ............................................. Fall 1990
Architects .................................................. The Smith Sinnett Associates
Landscape Architect ...................................... McNeely Associates
Structural Engineers ..................................... J.E. Greiner Company
Mechanical Engineers ................................... Shelton Y. Adcock
Electrical Engineers ...................................... Shelton Y. Adcock
Square Footage ........................................... 170,000
Total Cost .................................................. $11,007,500
Building Cost Per Square Foot ......................... $64.75
Administrative Unit: Western Rockingham City
Grade Organization: 9-12
Approximate Capacity: 900
Opening Date: 1991
Architects: Smith & Boynton
Landscape Architect: In House
Structural Engineers: Smith & Boynton
Mechanical Engineers: Smith & Boynton
Electrical Engineers: Smith & Boynton
Square Footage: 165,000
Total Cost: $11,958,930
Building Cost Per Square Foot: $72.47
PERSPECTIVE AT MAIN ENTRY
The following plan diagrams represent some School Planning ideas which have been suggested by actual school planning conditions frequently encountered by architects and school administrators. The diagrams are attempts to standardize a basic school plan design element so that it can be repeated or combined with similar units to produce parts of plans or complete school building plans. Close examination of school building design programs reveals that schools are really combinations of somewhat standard units of area and multiples or subdivisions of these units. Conventional school plan shapes are the result of building construction imperatives and the common idea of what constitutes a school plan. Contemporary educational requirements and methodologies suggest that the usual school planning response to these requirements is rarely more valid than the units of area, their multiples and subdivisions indicated in these diagrams. Also, a good case can be made against the traditional rectangular school planning unit and for another unit shape with less rigidity. A combination of school planning units with five walls and five corners can provide a great deal more planning flexibility and order without sacrificing the one teacher/one room concept basic to traditional educational thinking. However, that is a subject for another set of School Planning diagrams.

Prototype computerised plan diagrams prepared by:
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Alvis O. George, Jr., A.I.A.
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