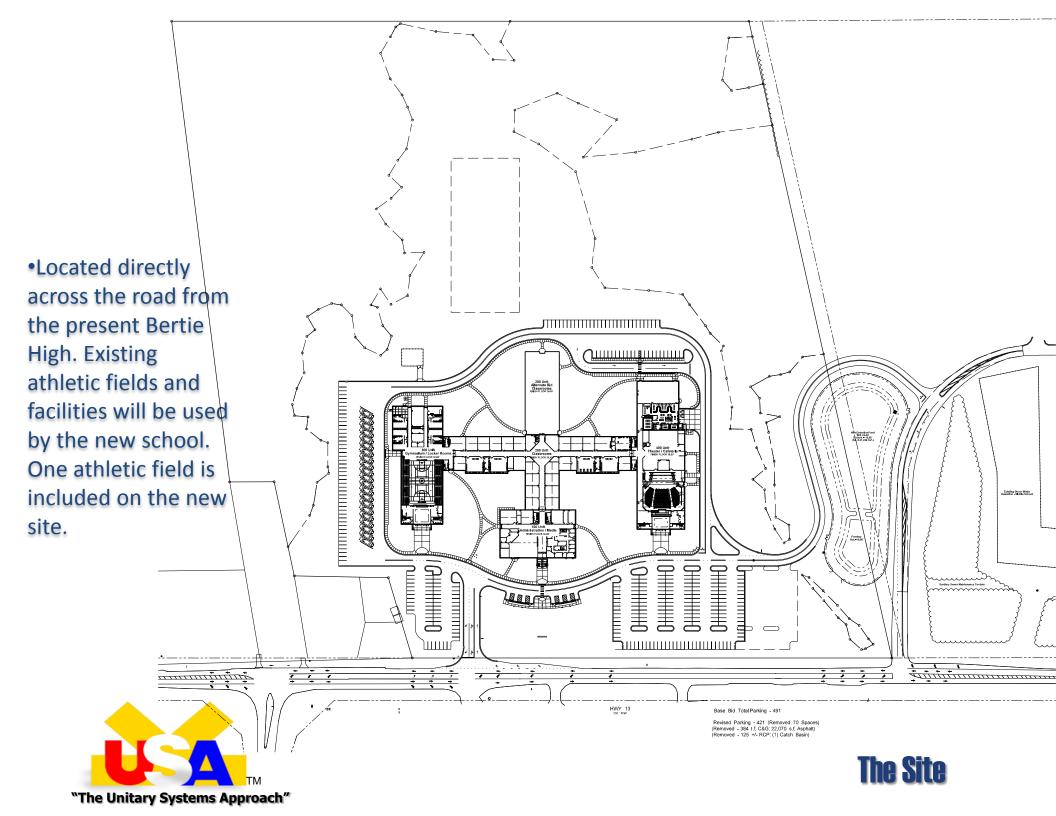
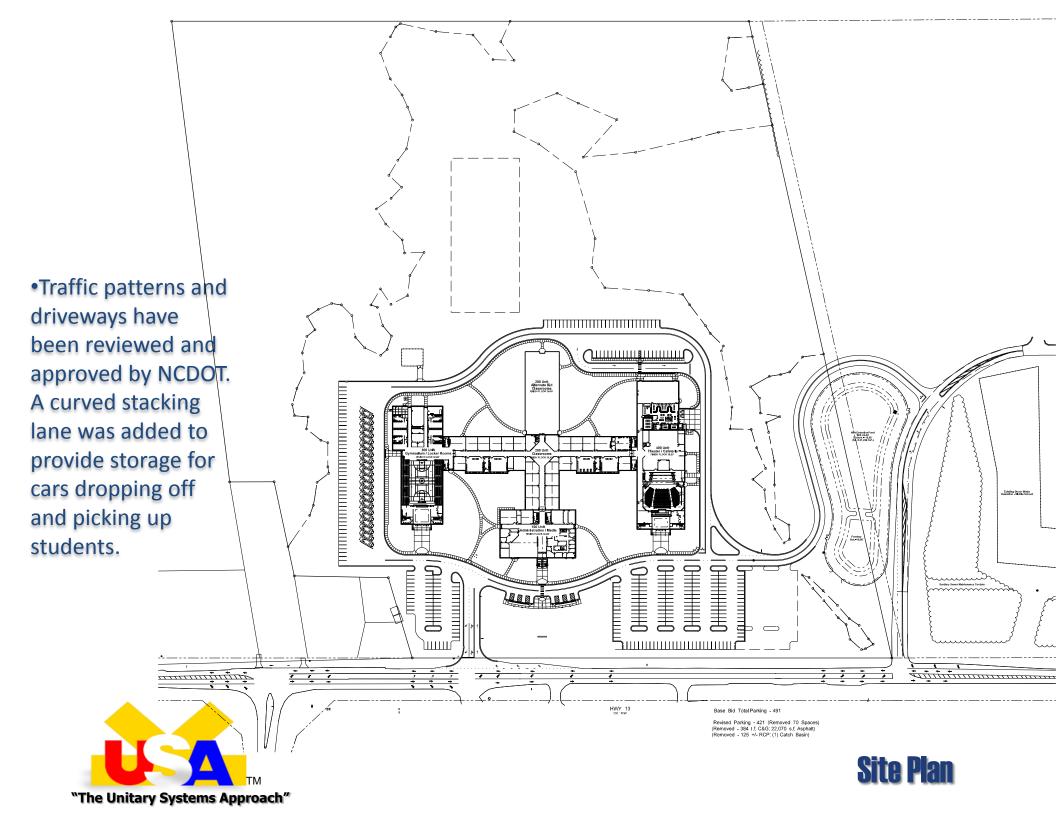
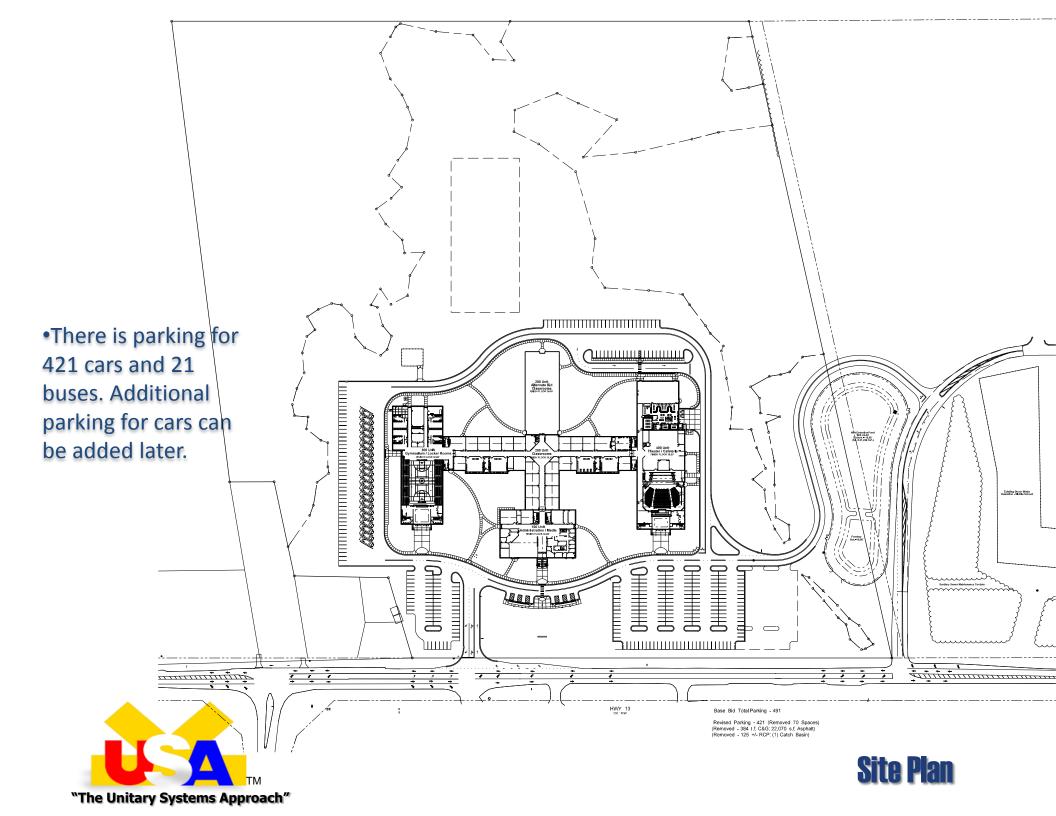
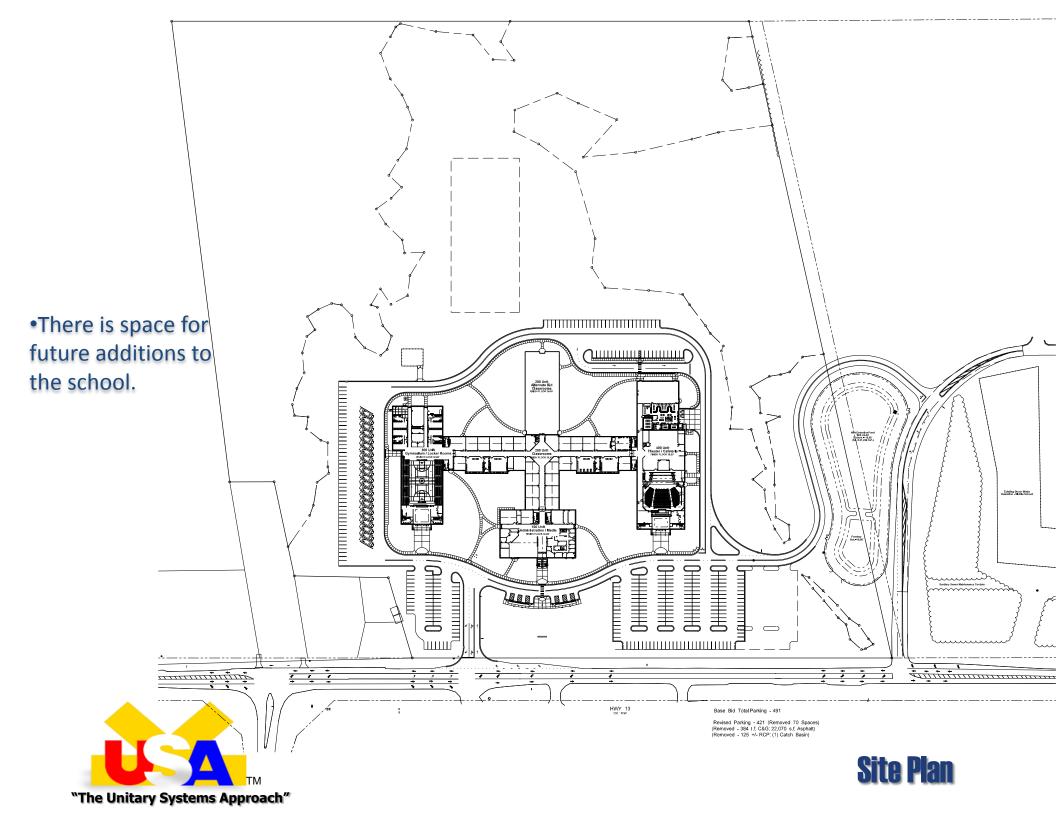
# Design of the New Bertie High School



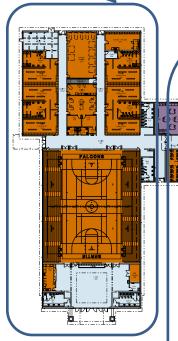








The building is designed in three major sections, each with its own entrance, lobby, and restrooms. They can each be locked off and operate independently for various schools and community functions.



#### **Athletics**

The left section houses athletic functions – a 1,000 seat competition gym, a strength training center, locker rooms and coaching offices that will also be used throughout the day for required physical education classes

### **Academic Core**

The center section is the "academic core" and main body of the school. It houses the administration area, the library, and both regular and specialized classrooms.

## Auditorium / Cafeteria

The right section includes a 500 seat auditorium, a large music and band area, ROTC classrooms, and a cafeteria that is sized for a future capacity of 900 students in 3 lunches.

**The Building-131,706 s.f.** 

Brick and glass exterior





•All metal roof with wide overhangs



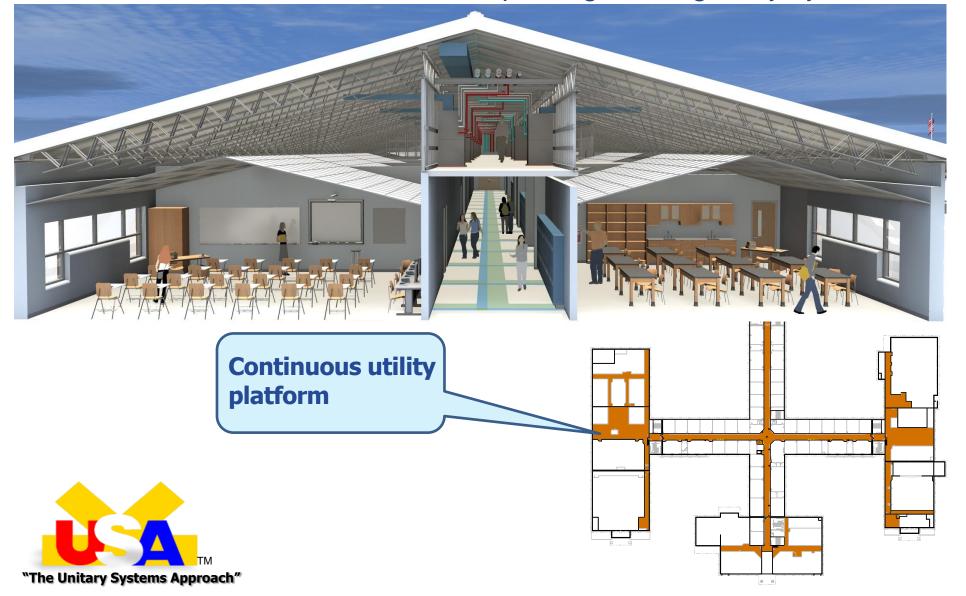


•Four pipe boiler / chiller HVAC system with state of the art controls system





•28,000 SF continuous overhead platform system above hallways for ease of maintenance and updating building utility systems



•Numerous energy efficiency features – super insulation of walls and roof, high efficiency lighting and controls, high efficiency heating and air conditioning and controls



High performance insulation + <u>High performance glazing systems =</u> Superior building envelopes



# Technology Package

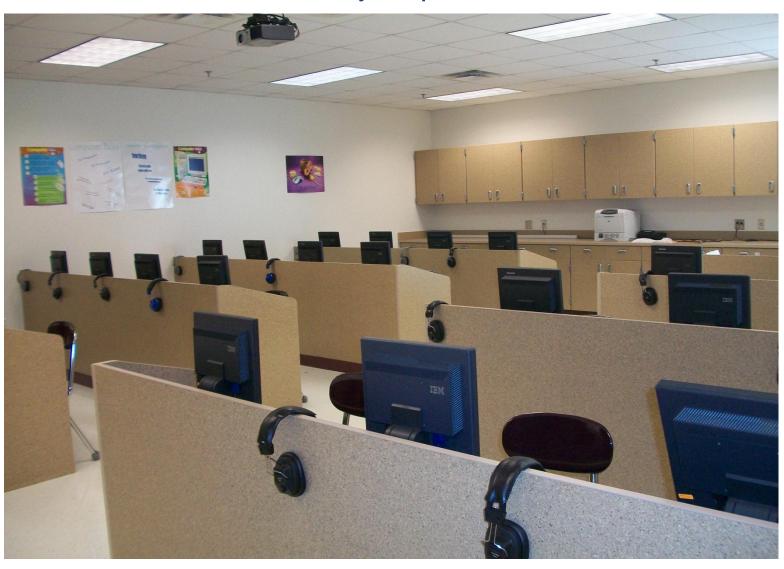
•Classrooms access a central server and the internet through both wired and wireless access points.





## Technology Package

•Contractor will install video projectors throughout the school in classrooms and all major spaces.



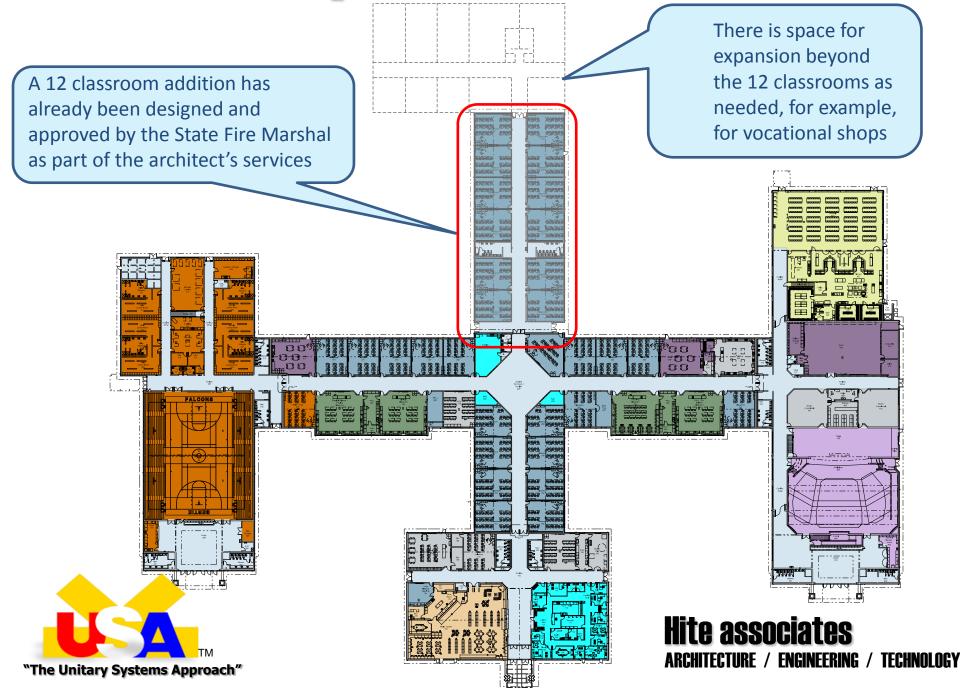
# Technology Package

 Overhead platforms allow technology updates with minimal cost





**Future Expansion** 



## **Total Cost**

Planning, permitting,	and construction administration costs	\$910,121
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Construction costs	\$18,226,679
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Construction contingency	\$300,000
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Furniture	\$300,000
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Financing costs \$700,000

TOTAL PROJECT COST \$20,436,000





## **Potential Reimbursements**

NCDOT for bus drives and parking costs \$50,000

Federal "E-rate" for technology costs \$148,500

TOTAL POTENTIAL REIMBURSEMENTS \$198,500





## **Site Conditions**

- •The site soils are generally soft and require the addition of "structural fill" to build on. The "structural fill" is typically part of any building site in Eastern NC to properly support a building. The soft soils on our site are "buildable"; it just requires more fill than would normally be used.
- •The current site work contract includes:
  - grading of the entire site
  - pavement in all required areas
  - curb and gutter in parking lots and driveways
  - •additional thickness of asphalt for bus parking lot (required by the state)
  - Storm drainage
  - \*\* These costs would be the same for any site





## **Site Conditions**

- •The additional "structural fill" required on our site has a value of \$250,000. If a new site with "average" soil conditions was selected and the project moved to this site, the cost of the new site would be far in excess of the cost for extra fill, for the following reasons:
  - •A new site would have to be purchased
  - •A new site would require new site design fees and new permitting fees
  - •Time for new design and permitting would take several months. Costs have been rising since the project was bid in April. It is expected that cost increases would negate any projected savings for a site with better soils.
  - •If a new site was selected further away from the existing high school, construction of new athletic facilities would be several times the cost of the extra structural fill required for the present site.
- •A new site with better soil conditions may have other characteristics that add to the cost of development higher cost for water, sewer, or gas utilities, blue line streams, grading and storm water management issues, etc.





## In conclusion

#### Hite Associates has:

- designed the plans for the new high school with input from numerous administrative and staff members
- completed the site survey and the geotechnical investigation
- completed the Traffic Impact Analysis and the Wetlands Delineation
- received all required approvals from
  - DENR (storm water and wet detention basin operation agreements)
  - Division of Water Quality
  - •DOT

"The Unitary Systems Approach"

- DPI (Division of School Planning)
- Department of Insurance
- NC Environmental Health
- and the Town of Windsor.

We have taken bids on this project and are ready to proceed with the vote of the commissioners.

