Comprehensive Facilities Master Plan

SMITHGROUP | JJR
Eva Klein & Associates
Brailsford & Dunlavey
RMF Engineers
Martin Alexiou Bryson
Protection Engineering Group
ISES

East Carolina University
Task 2: Data Collection Overview
• Introduction
  • Purpose and Goals

• Schedule and Process Overview

• Task 2 Accomplishments
  • Individual Updates
    • EKA – Strategic Review
    • SG/JJR – Health Sciences
    • B & D – Housing, Recreation
    • B & D – Athletics
    • MAB – Transit, Parking, Pedestrian
    • PEG – Security
    • SG/JJR – Architectural Guidelines
    • RMF – Utility Infrastructure

• Next Steps
“The purpose of this comprehensive plan is to create a plan that will anticipate the future by considering facility needs generated by the University’s Mission Statement, Strategic Plan and corresponding Academic Program.”
3 Key Themes:

1. Create a socially, economically, and environmentally sustainable campus plan that represents the hopes and aspirations of this region.
   - Integrate strategic, academic, and financial planning

2. Bring 4 diverse campus environments into a coherent and connected campus plan.
   - East Campus
   - Health Sciences Campus
   - West Research Campus
   - North Recreational Fields Complex

3. Utilize the campus to support and enhance the University and the community.
   - University as engaged resource
Goals of Task 2

- Finalize work plan with ECU management
- Prepare inventory data list
- Collect and review inventory data
- Site inspections by Project Team with Focus Groups
- Reports discussing data collection and initial findings
- Draft architectural guidelines
- ECU SharePoint site - up and running
- ECU public Master Plan Site
Task 2: Team Updates
Strategic Review—Objectives

• Prepare team for Master Plan

• Identify ECU priorities, initiatives, targets

• Define Master Plan Guiding Principles

• Produce Strategic Framework summary
Contexts: UNC Tomorrow and ECU Tomorrow

Main Strategies of *UNC Tomorrow*  

- Our Global Readiness
- Our Citizens and Their Future: Access to Higher Education
- Our Children and Their Future: Improving Public Education
- Our Communities and Their Economic Transformation
- Our Health
- Our Environment
- Our University's Outreach and Engagement

Main Strategies of ECU Tomorrow

- Education for a New Century
- The Leadership University
- Economic Prosperity in the East
- Health Care and Medical Innovation
- The Arts, Culture, and the Quality of Life

*Strategic & Academic Research Planning*  
EKA
Master Plan Principles

• Education Outcomes, Instructional Content and Delivery, and the Student Experience

• Research, Scholarship, and Related Faculty Community Issues

• Community/Regional Constituencies, Connections, and Partnerships

• Physical Characteristics of the Campuses

• Business and Policy Considerations
Issues for Decisions

• Enrollment Issues

• Research Growth and Space Productivity

• Space Ownership, Utilization, and Configurations
The “Maturing” Health Sciences Center

Robust School of Nursing @ 1,100 Students (Largest in the State)
  • Regional Education and Placement Model
  • Significant Distance Education Curriculum
  • Growth will be Limited at Class Size of 150

Robust School of Allied Health @ 800 Students
  • Very Broad Curriculum Offering
  • Clinical Enterprise with 4 Distinct Clinics (Speech, PT, Rehab / Substance Abuse, and Sports PT)
  • Anticipate 34% growth over next 8 years

Health Sciences
SG/JJR
The “Maturing” Health Sciences Center

New Dental School @ 200 Students

- Innovative Regional Clinical Offering (4th Year in a Regional Campus Setting)

Mature School of Medicine @ 320 Students with Growth to 480 Students

- Historic Clinical Training Focus with Family and Rural Health Mission
- Robust + Broad Clinical Enterprise; Centers of Excellence in Cancer, Metabolic, CardioVascular
- Close Relationship with PCMH, Require Regional Expansion to Serve Student Growth
- Historic Source of Extramural Funding (Research)
- Expectation to Grow Research
### Comprehensive Facilities Master Plan

### UNIVERSITY HEALTH SYSTEMS

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Complex Beds</th>
<th>Discharges</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitt County Memorial Hospital</td>
<td>745</td>
<td>34,923</td>
<td>Greenville, NC 27835</td>
</tr>
<tr>
<td>Heritage Hospital</td>
<td>117</td>
<td>4,002</td>
<td>Tarboro, NC 27886</td>
</tr>
<tr>
<td>Roanoke-Chowan Hospital</td>
<td>112</td>
<td>3,922</td>
<td>Ahoskie, NC 27910</td>
</tr>
<tr>
<td>Duplin General Hospital</td>
<td>89</td>
<td>2,788</td>
<td>Elizabeth City, NC 27909</td>
</tr>
<tr>
<td>Chowan Hospital</td>
<td>25</td>
<td>1,902</td>
<td>Tarboro, NC 27886</td>
</tr>
<tr>
<td>The Outer Banks Hospital</td>
<td>18</td>
<td>1,533</td>
<td>Ahoskie, NC 27910</td>
</tr>
<tr>
<td>Bertie Memorial Hospital</td>
<td>15</td>
<td>444</td>
<td>Windsor, NC 27983</td>
</tr>
<tr>
<td>Albemarl Health</td>
<td>142</td>
<td>7,246</td>
<td>Elizabeth City, NC 27909</td>
</tr>
</tbody>
</table>

**SUB-TOTAL** 1,263  56,760

### ECU TARGET AFFILIATIONS

<table>
<thead>
<tr>
<th>Hospital</th>
<th>Complex Beds</th>
<th>Discharges</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenoir Memorial Hospital</td>
<td>188</td>
<td>9,348</td>
<td>Goldsboro, NC 27534</td>
</tr>
<tr>
<td>Wilson Medical Center</td>
<td>277</td>
<td>8,786</td>
<td>Rocky Mount, NC 27910</td>
</tr>
<tr>
<td>Nash General Hospital</td>
<td>353</td>
<td>14,421</td>
<td>Rocky Mount, NC 27910</td>
</tr>
<tr>
<td>Wayne Memorial Hospital</td>
<td>276</td>
<td>14,014</td>
<td>Rocky Mount, NC 27910</td>
</tr>
<tr>
<td>Halifax Regional MC</td>
<td>144</td>
<td>7,061</td>
<td>New Bern, NC 27854</td>
</tr>
<tr>
<td>Craven Regional MC</td>
<td>303</td>
<td>15,166</td>
<td>New Bern, NC 28561</td>
</tr>
<tr>
<td>Sampson Regional MC</td>
<td>105</td>
<td>3,965</td>
<td>Clinton, NC 28328</td>
</tr>
<tr>
<td>Onslow Memorial Hospital</td>
<td>162</td>
<td>8,042</td>
<td>Jacksonville, NC 28541</td>
</tr>
<tr>
<td>New Hanover Regional MC</td>
<td>665</td>
<td>30,149</td>
<td>Wilmington, NC 28401</td>
</tr>
</tbody>
</table>

**SUB-TOTAL** 2,473  110,952

**TOTAL** 3,736  167,712

## Medical Student to Staff Ratio

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Medical Students</td>
<td>404</td>
<td>348</td>
<td>454</td>
<td>665</td>
<td>210</td>
<td>293</td>
<td>494</td>
<td>291</td>
<td>254</td>
<td>567</td>
<td>216</td>
<td>224</td>
<td>246</td>
<td>243</td>
<td>315</td>
<td>413</td>
<td>242</td>
<td>440</td>
<td>456</td>
<td>245</td>
<td>416</td>
</tr>
<tr>
<td>Total Full Time Faculty incl Instructors</td>
<td>1,663</td>
<td>914</td>
<td>932</td>
<td>1,267</td>
<td>276</td>
<td>358</td>
<td>586</td>
<td>333</td>
<td>258</td>
<td>541</td>
<td>204</td>
<td>208</td>
<td>221</td>
<td>216</td>
<td>266</td>
<td>343</td>
<td>195</td>
<td>349</td>
<td>310</td>
<td>138</td>
<td>112</td>
</tr>
<tr>
<td>Ratio of Faculty to Students</td>
<td>4.12</td>
<td>2.63</td>
<td>2.05</td>
<td>1.91</td>
<td>1.31</td>
<td>1.22</td>
<td>1.19</td>
<td>1.14</td>
<td>1.02</td>
<td>0.95</td>
<td>0.94</td>
<td>0.93</td>
<td>0.90</td>
<td>0.89</td>
<td>0.84</td>
<td>0.83</td>
<td>0.81</td>
<td>0.79</td>
<td>0.68</td>
<td>0.56</td>
<td>0.27</td>
</tr>
<tr>
<td>Y1 + Y2 Students</td>
<td>202</td>
<td>174</td>
<td>227</td>
<td>333</td>
<td>105</td>
<td>247</td>
<td>146</td>
<td>146</td>
<td>127</td>
<td>284</td>
<td>108</td>
<td>112</td>
<td>123</td>
<td>122</td>
<td>158</td>
<td>207</td>
<td>121</td>
<td>220</td>
<td>228</td>
<td>123</td>
<td>208</td>
</tr>
<tr>
<td>Total Basic Science Faculty</td>
<td>194</td>
<td>71</td>
<td>181</td>
<td>233</td>
<td>37</td>
<td>137</td>
<td>81</td>
<td>90</td>
<td>84</td>
<td>51</td>
<td>64</td>
<td>45</td>
<td>45</td>
<td>37</td>
<td>54</td>
<td>43</td>
<td>50</td>
<td>50</td>
<td>41</td>
<td>66</td>
<td>41</td>
</tr>
<tr>
<td>Ratio of Faculty to Students</td>
<td>0.96</td>
<td>0.41</td>
<td>0.80</td>
<td>0.70</td>
<td>0.35</td>
<td>0.55</td>
<td>0.56</td>
<td>0.71</td>
<td>0.30</td>
<td>0.47</td>
<td>0.57</td>
<td>0.37</td>
<td>0.37</td>
<td>0.30</td>
<td>0.34</td>
<td>0.21</td>
<td>0.41</td>
<td>0.23</td>
<td>0.18</td>
<td>0.54</td>
<td>0.20</td>
</tr>
<tr>
<td>Y3 + Y4 Students</td>
<td>1,469</td>
<td>843</td>
<td>751</td>
<td>1,034</td>
<td>239</td>
<td>249</td>
<td>449</td>
<td>252</td>
<td>168</td>
<td>457</td>
<td>153</td>
<td>144</td>
<td>176</td>
<td>179</td>
<td>212</td>
<td>300</td>
<td>145</td>
<td>299</td>
<td>269</td>
<td>72</td>
<td>71</td>
</tr>
<tr>
<td>Total Clinical Science Faculty</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ratio of Faculty to Students</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HSC Aspirations

• Consistent Desire to Create an Integrated **Health Science Center Campus** Respectful of Student and Faculty Support and Patient Access

• Efficient and effective

• Consistent Goal of Aligning Clinical Service, Education and Research Leadership with Health Needs of Region

• Desire to Provide an Integrated Core Curriculum in support of Interprofessional Education across the Health Science Center Schools

• Continue and Strengthen Regional Growth in Support of Current and Anticipated Program Development

HSC Conceptual Vision

An Integrated, Humanistic-Oriented, Community-Based Care-Delivery, Education, and Research Model.

**Health Sciences**

SG/JJR
HSC Limitations

- Various Programs are Fragmented and Non-Integrated
- Funding Resource Constraints
- Inconsistent Utilization of Existing Facilities
- Limited Physical Ability of Current Facilities to Support Future Program Development
- Revenue Sources are Inconsistent; Distribution in Support of Programs Require Constant Negotiation
- Wayfinding Challenges due to Historic Focus on a “Medical Mall” Model Rather Than an “Integrated Health” Model (A Community Health Resource Center)
Housing, Recreation, and Union
B & D

The Master Plan should:

• Support Enrollment Growth
  • 37,000 students projected by 2017
  • Capacity to house at least 25% of undergraduate population

• Consider West Campus Growth

• Evaluate Options for Public / Private Partnerships

• Enhance the Relationships between Quality of Life Facilities
Housing, Recreation, and Union
B & D

Market Analysis Summary

• Administrative Interviews
• Focus Groups / Intercept Interviews
• Off-Campus Market Analysis
• Competitive Context Review
• Student Survey Analysis
### Comprehensive Facilities Master Plan

#### Housing Demand & Summary

**B & D**

<table>
<thead>
<tr>
<th>2008-2009</th>
<th>Unit A - Traditional Residence Hall Double</th>
<th>Unit B - Traditional Residence Hall Single</th>
<th>Unit C - 8-person Suite Double</th>
<th>Unit D - 4-person Suite Single</th>
<th>Unit E - 2-person Semi-Suite Single</th>
<th>Unit F - 2-person Apartment Single</th>
<th>Unit G - 4-bedroom Apartment Single</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year</td>
<td>197</td>
<td>152</td>
<td>137</td>
<td>832</td>
<td>505</td>
<td>444</td>
<td>520</td>
<td>2,788</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>127</td>
<td>141</td>
<td>121</td>
<td>429</td>
<td>276</td>
<td>405</td>
<td>433</td>
<td>1,931</td>
</tr>
<tr>
<td>Junior Year</td>
<td>47</td>
<td>83</td>
<td>41</td>
<td>229</td>
<td>379</td>
<td>313</td>
<td>266</td>
<td>1,359</td>
</tr>
<tr>
<td>Senior Year</td>
<td>0</td>
<td>210</td>
<td>81</td>
<td>262</td>
<td>213</td>
<td>262</td>
<td>231</td>
<td>1,258</td>
</tr>
<tr>
<td>Graduate/Professional Year(s)</td>
<td>28</td>
<td>83</td>
<td>0</td>
<td>28</td>
<td>132</td>
<td>220</td>
<td>110</td>
<td>599</td>
</tr>
<tr>
<td><strong>Total Demand (# beds)</strong></td>
<td><strong>398</strong></td>
<td><strong>668</strong></td>
<td><strong>380</strong></td>
<td><strong>1,780</strong></td>
<td><strong>1,505</strong></td>
<td><strong>1,644</strong></td>
<td><strong>1,560</strong></td>
<td><strong>7,936</strong></td>
</tr>
<tr>
<td><strong>Existing On Campus Beds</strong></td>
<td><strong>4,513</strong></td>
<td><strong>0</strong></td>
<td><strong>494</strong></td>
<td><strong>490</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>0</strong></td>
<td><strong>5,497</strong></td>
</tr>
<tr>
<td><strong>Surplus/(Deficit)</strong></td>
<td><strong>4,115</strong></td>
<td><strong>(668)</strong></td>
<td><strong>114</strong></td>
<td><strong>(1,290)</strong></td>
<td><strong>(1,505)</strong></td>
<td><strong>(1,644)</strong></td>
<td><strong>(1,560)</strong></td>
<td><strong>(2,439)</strong></td>
</tr>
</tbody>
</table>

**Surplus of Traditional-Style Beds**

**Deficit of Suite- and Apartment-Style Beds**
### Recreation Demand

#### B & D

<table>
<thead>
<tr>
<th>Activity</th>
<th>Space Type</th>
<th>Peak Demand</th>
<th>Space Allocation Based on Prioritization of Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardiovascular fitness machines</td>
<td>Sq. Ft.</td>
<td>13,040</td>
<td>9,800 to 11,100</td>
</tr>
<tr>
<td>Indoor jog or walk</td>
<td>Sq. Ft.</td>
<td>20,680</td>
<td>15,500 to 17,600</td>
</tr>
<tr>
<td>Free weights</td>
<td>Sq. Ft.</td>
<td>16,300</td>
<td>12,200 to 13,800</td>
</tr>
<tr>
<td>Group Fitness (aerobics, dance, etc.)</td>
<td>Sq. Ft.</td>
<td>15,200</td>
<td>11,400 to 12,900</td>
</tr>
<tr>
<td>Weight machines</td>
<td>Sq. Ft.</td>
<td>9,300</td>
<td>5,150 to 6,050</td>
</tr>
<tr>
<td>Yoga, stretch, or Pilates</td>
<td>Sq. Ft.</td>
<td>24,280</td>
<td>13,300 to 15,800</td>
</tr>
<tr>
<td>Lap swimming</td>
<td>Lanes</td>
<td>34</td>
<td>18 to 22</td>
</tr>
<tr>
<td>Recreational swimming</td>
<td>Sq. Ft.</td>
<td>13,050</td>
<td>5,200 to 6,500</td>
</tr>
<tr>
<td>Basketball</td>
<td>Courts</td>
<td>14</td>
<td>5 to 8</td>
</tr>
<tr>
<td>Indoor tennis</td>
<td>Courts</td>
<td>25</td>
<td>10 to 13</td>
</tr>
<tr>
<td>Water aerobics</td>
<td>Sq. Ft.</td>
<td>12,470</td>
<td>5,000 to 6,200</td>
</tr>
<tr>
<td>Outdoor tennis</td>
<td>Courts</td>
<td>28</td>
<td>11 to 14</td>
</tr>
<tr>
<td>Outdoor sand volleyball</td>
<td>Courts</td>
<td>9</td>
<td>2 to 3</td>
</tr>
<tr>
<td>Racquetball</td>
<td>Courts</td>
<td>29</td>
<td>8 to 10</td>
</tr>
<tr>
<td>Martial arts</td>
<td>Sq. Ft.</td>
<td>5,850</td>
<td>1,568 to 2,110</td>
</tr>
<tr>
<td>Outdoor basketball</td>
<td>0</td>
<td>7</td>
<td>2 to 2</td>
</tr>
<tr>
<td>Indoor soccer</td>
<td>Courts</td>
<td>5</td>
<td>1 to 1</td>
</tr>
<tr>
<td>Volleyball</td>
<td>Courts</td>
<td>6</td>
<td>1 to 1</td>
</tr>
<tr>
<td>Rock climbing wall</td>
<td>Ln. Ft.</td>
<td>43</td>
<td>4 to 9</td>
</tr>
<tr>
<td>Badminton</td>
<td>Courts</td>
<td>16</td>
<td>1 to 4</td>
</tr>
<tr>
<td>Table Tennis</td>
<td>Tables</td>
<td>18</td>
<td>2 to 3</td>
</tr>
<tr>
<td>Roller or floor hockey</td>
<td>Courts</td>
<td>2</td>
<td>0 to 0</td>
</tr>
<tr>
<td>Squash or paddleball</td>
<td>Courts</td>
<td>3</td>
<td>0 to 1</td>
</tr>
</tbody>
</table>
# Union Demand

**B & D**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Space Type</th>
<th>Peak Demand</th>
<th>Space Allocation Based on Prioritization of Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Hour Study Lounge</td>
<td>Sq. Ft.</td>
<td>7,995</td>
<td>to 6,661</td>
</tr>
<tr>
<td>Coffeehouse</td>
<td>Sq. Ft.</td>
<td>4,020</td>
<td>to 3,402</td>
</tr>
<tr>
<td>Computer Lab</td>
<td>Sq. Ft.</td>
<td>3,510</td>
<td>to 2,960</td>
</tr>
<tr>
<td>Food Court Dinner</td>
<td>Sq. Ft.</td>
<td>4,630</td>
<td>to 3,885</td>
</tr>
<tr>
<td>Food Court Lunch</td>
<td>Sq. Ft.</td>
<td>5,880</td>
<td>to 3,938</td>
</tr>
<tr>
<td>Convenience store / small grocery mkt</td>
<td>Sq. Ft.</td>
<td>420</td>
<td>to 274</td>
</tr>
<tr>
<td>Copy / Print Center</td>
<td>Sq. Ft.</td>
<td>700</td>
<td>to 452</td>
</tr>
<tr>
<td>Bookstore</td>
<td>Sq. Ft.</td>
<td>1,340</td>
<td>to 685</td>
</tr>
<tr>
<td>Food Court Breakfast</td>
<td>Sq. Ft.</td>
<td>4,520</td>
<td>to 2,302</td>
</tr>
<tr>
<td>Sports bar / pub</td>
<td>Sq. Ft.</td>
<td>4,030</td>
<td>to 2,039</td>
</tr>
<tr>
<td>Grab-and-go Lunch</td>
<td>Sq. Ft.</td>
<td>970</td>
<td>to 508</td>
</tr>
<tr>
<td>Grab-and-go Breakfast</td>
<td>Sq. Ft.</td>
<td>1,100</td>
<td>to 452</td>
</tr>
<tr>
<td>Small Group Study Rooms</td>
<td>Sq. Ft.</td>
<td>4,180</td>
<td>to 1,426</td>
</tr>
<tr>
<td>Informal lounges / social gathering areas</td>
<td>Sq. Ft.</td>
<td>3,580</td>
<td>to 1,256</td>
</tr>
<tr>
<td>Games / Informal Rec Space</td>
<td>Sq. Ft.</td>
<td>4,900</td>
<td>to 1,785</td>
</tr>
<tr>
<td>Grab-and-go Dinner</td>
<td>Sq. Ft.</td>
<td>760</td>
<td>to 152</td>
</tr>
<tr>
<td>Multipurpose theater / Auditorium</td>
<td>Sq. Ft.</td>
<td>5,160</td>
<td>to 1,000</td>
</tr>
<tr>
<td>Large Special Event Programming Space</td>
<td>Sq. Ft.</td>
<td>3,820</td>
<td>to 784</td>
</tr>
</tbody>
</table>
Recreation & Union Summary

B & D

- Recreation
  - Excellent Quality
  - Demand for Additional Quantity

- Union
  - Poor Quality
  - Demand for additional quantity is a function of ECU's strategic decisions concerning the operational model for the union system

- West Campus
  - Housing, Recreation, and Union demand has been considered and will be incorporated into the plan in the next phase.
Athletics Work Plan

B & D

• Tour Existing Facilities
• Interview Senior Athletic Administration
• Collect Data Regarding Athletic Master Planning
• Review and Organize Athletic Master Plan Data
• Provide Relevant Research and Information (for Basketball Practice Facility)
## Comprehensive Facilities Master Plan

### Parking & Traffic Department

<table>
<thead>
<tr>
<th>Sustainable Practice</th>
<th>Student Transit Authority</th>
</tr>
</thead>
<tbody>
<tr>
<td>• “Real-cost” permit sales</td>
<td>• Service area limitations (off-campus)</td>
</tr>
<tr>
<td>• Occupancy-based permit sales</td>
<td>• Formalized bus stop locations and times</td>
</tr>
<tr>
<td>• “Park once” emphasis</td>
<td>• Easy transfers to other transit systems</td>
</tr>
<tr>
<td>• Travel Demand Management programs</td>
<td>• Capital improvement planning</td>
</tr>
<tr>
<td>• Long-range parking strategies</td>
<td>• Coordinated service planning</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-Sustainable Practice</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Subsidized parking permit costs</td>
<td>• Subsidize (25%) of costs to apartment complexes</td>
</tr>
<tr>
<td>• Subsidized parking deck construction</td>
<td>• Demand-responsive route planning</td>
</tr>
<tr>
<td>• Maximum permit flexibility (drive to meetings)</td>
<td>• Non-Transparent decision making</td>
</tr>
<tr>
<td>• “Hunting” for parking spaces</td>
<td>• Temporary or improvised bus stops/transfer areas</td>
</tr>
<tr>
<td>• Free visitor parking</td>
<td>• Renting bus dispatch/storage location</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caveats</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Parking enforcement “liaison” program</td>
<td>• Full-time driver safety coordinator</td>
</tr>
<tr>
<td>• 5-Year financial plan</td>
<td>• Formal data collection program</td>
</tr>
<tr>
<td>• Departmental outreach program</td>
<td>• Departmental outreach program</td>
</tr>
</tbody>
</table>
Transit Master Planning Questions

• Where do you want the East, Athletic, and Health Sciences Campus bus stops/stations?

• Where do you want the Bus Maintenance (dispatch and bus storage) Facility?

• Where will new students live?

Transit Supports Sustainability Goals

• Traffic volumes
• Pedestrian safety
• Air quality
• Land for parking
• Storm water management
• Cost of car ownership

Apartments are Spreading Out…Trend is Unsustainable

Transit, Parking, Pedestrian MAB
Parking Master Planning Questions

- Should parking lot users be able to walk to East Campus?

- How convenient should parking be for outpatients on Health Sciences Campus?

- Where should Visitor Parking be located?

Transit, Parking, Pedestrian

MAB
Pedestrian Master Planning Questions

- Which parking lots on East Campus are sacred?
- Which campus roads on East Campus are sacred?
- Where should the East Campus-Athletic Campus Connector be located?
Summary
• Scope – In-depth security survey and analysis of ECU’s current security posture.

• Physical Protection System
  • Operational
  • Architectural
  • Technology

• Assessment Report
  • Finding
  • Recommendations
  • Criticality Level
  • Frame Work for next phases

Safety and Security
PE Group
Comprehensive Facilities Master Plan

Operational
- Policies, Plans, and Procedures
- Organization, Roles & Responsibilities

Architectural
- Police Department Facility
- Lighting
- Security Integrated with Architecture (CPTED)

Technical
- Multiple Systems
- Electronic Security System Integration

Safety and Security

PE Group
Comprehensive Facilities Master Plan

Strategic Security Plan

• Goal #1: Establish Centralized Security Organization
• Goal #2: Implement Integrated Technical Security System
• Goal #3: Establish Security Operating Procedures
• Goal #4: Centralize Security Procurement Process
• Goal #5: Initiate Security Budget
• Goal #6: New Police Facility

Security Master Plan

• Documents to implement the Strategic Security Plan

Safety and Security

PE Group
Summary

- Developed Preliminary Utility Site Plans
- Inventoried Utility Generation Equipment
- Incorporated Previous Utility Master Plans

Utility Infrastructure
RMF Engineering, Inc.
Utililty Infrastructure
RMF Engineering, Inc.

ECU COMPREHENSIVE MASTER PLAN

2009 CHILLED WATER UTILITY SITE PLAN
GENERAL ATTRIBUTES

- Massing & Proportion
- Height
- Scale
- Symmetry
- Hierarchy

Architectural Guidelines
SG/JJR
GENERAL ATTRIBUTES

- Massing & Proportion
- Height
- Scale
- Symmetry
- Hierarchy

Architectural Guidelines
SG/JJR
MATERIALS

- Brick
- Grout
- Stone Panels & Accents
- Roof
- Window & Opening Systems
- Ornamentation & Trim
- Glazing
- Inscriptions

Architectural Guidelines
SG/JJR
MATERIALS

- Brick
- Grout
- Stone Panels & Accents
- Roof
- Window & Opening Systems
- Ornamentation & Trim
- Glazing
- Inscriptions
COMPONENTS

- Roof Form
- Columns
- Fenestration
- Entrance
- Ornamentation & Pattern
- Service Areas

Architectural Guidelines
SG/JJR

Hip Roof

Flat roof with false front

Gable Roof

Flat roof with parapet
Discussion & Next Steps
Next Steps
Task 3

• Facilities condition assessment & database
• Utilize inventory data to generate analysis drawings and documents
• Capital needs assessments
• Capital projects plan & database
Email: masterplan@ecu.edu

Website: www.ecu.edu/masterplan