Parking Evaluation and Development Study

Shippensburg University

A member of Pennsylvania's State System of Higher Education

January 22, 2002

GWSM, inc. Landscape Architects
INTRODUCTION

As Shippensburg University increased its student population from 6,676 in the Fall of 1999 to 7,200 in the Fall of 2001, the demand for additional parking also increased. As a result, it became necessary to prepare this Parking Evaluation and Development Study.

The approach to the development of parking in this study corresponds to and compliments the recommendations of the 1998 Facilities Master Plan that established a campus loop road concept with major parking areas located outside of an interior campus “Green Space”.
EXISTING PARKING SPACE SUMMARY &
EXISTING PARKING DATA COMPARISON CHART

EXISTING PARKING SPACE SUMMARY

1. Total University Parking/All Persons
   - Total Spaces: 3,312**
   - Total Headcount: 8,232**
   - Design Standard Average*: 0.40 parking spaces per person (deficient)
   - Design Standard Range*: 0.15 - 0.60

2. Faculty, Staff, Administration Parking/All Persons
   - Total E, FS, AS Spaces: 983**
   - Total E, FS, Admin. Headcount: 1,032**
   - Design Standard Average*: 0.95 parking spaces per person
   - Design Standard Range*: 0.70 - 1.00

3. Student Parking/All Persons
   - Total Student Spaces: 2,213**
   - Total Student Headcount: 7,200**
   - Design Standard Average*: 0.31 parking spaces per person (deficient)
   - Design Standard Range*: 0.30 - 0.50
   - Deficient 200 Resident Student Parking Spaces and 200 Commuter Student Parking Spaces in FY 2001 per Department of Public Safety

* Statistical Data accepted by the ENO Transportation Foundation, www.enotrans.com

** Fall 2001

EXISTING PARKING DATA COMPARISON CHART

Campus Population
- Fall 2001
  - (Facilities Management & Planning)
  - Executive/Managerial/ Administrative: 45
  - Faculty: 380
  - Staff: 448
  - Commuter Student (incl. 1000 Graduate Students): 4,696
  - Resident Student: 2,504
  - Grant Funded & Dining Service Employees: 159
  - Visitor: 73
  - TOTAL: 8,232

Total Students, Fall 2001 = 7,200

Parking Space Count
- Fall 2001
  - (Dept. of Public Safety)
  - ADA: 43
  - Executive/Managerial/ Administrative: 45
  - Faculty: 82
  - Faculty/Staff: 757
  - Staff: 1,153
  - Commuter Student: 1,038
  - Resident Student: 348
  - Storage Student: 827
  - Contractor: 226
  - Visitor: 73
  - TOTAL: 3,312

(Deficient 200 Resident Student Parking Spaces and 200 Commuter Student Parking Spaces)

Issued Parking Permit Decals 1999-2000
- (Dept. of Public Safety Annual Report)
  - Faculty: 854
  - Staff: 1,153
  - Commuter Student: 4,068
  - Resident Student: 396
  - Storage Student: 1,289
  - Contractor: 226
  - Visitor: 73
  - TOTAL: 8,340

Temporary: 354
## Projected Parking Space Needs

<table>
<thead>
<tr>
<th>Existing Population Fall 2001</th>
<th>Projected Population Growth Fall 2002</th>
<th>Fall 2003</th>
<th>Fall 2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student</td>
<td>7,200</td>
<td>7,200</td>
<td>7,200</td>
</tr>
<tr>
<td>Executive/Man./Admin.</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Faculty</td>
<td>380</td>
<td>380</td>
<td>380</td>
</tr>
<tr>
<td>Staff</td>
<td>448</td>
<td>448</td>
<td>448</td>
</tr>
<tr>
<td>Grant Funded &amp; Dining Service Employees</td>
<td>159</td>
<td>159</td>
<td>159</td>
</tr>
<tr>
<td>Total Population</td>
<td>8,232</td>
<td>8,232</td>
<td>8,232</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Existing Spaces Fall 2001 (Deficient 200 Resident Student Parking Spaces and 200 Commuter Student Parking Spaces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,312</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Spaces Needed (Minimum .45 spaces per person)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,704</td>
</tr>
</tbody>
</table>

* Includes the dual use of 1,000 parking spaces designated for Commuter Students and the Instructional Arts Center (2,500 seats, 1 parking space per 2.5 seats).

### Design Standard Formulas Specific to Shippensburg University Where Determined in the Process of Analyzing the Parking Space Needs

#### Total University Parking

<table>
<thead>
<tr>
<th>Total University Parking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total University Headcount x S.U. Specific University Multiplier = Total University Parking Space Needs</td>
</tr>
<tr>
<td>8,232 x .45 = 3,704</td>
</tr>
</tbody>
</table>

#### Total Student Parking

<table>
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<th>Total Student Parking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Student Headcount x S.U. Specific Student Multiplier = Parking Space Needs</td>
</tr>
<tr>
<td>7,200 x .36 = 2,593</td>
</tr>
</tbody>
</table>

## Conclusion

The Proposed Parking Site Plan on the following page is intended to serve as a flexible guide in meeting the campus parking needs. The actual designation of parking spaces may vary to meet changing conditions on campus. Final designation of parking spaces and phasing needs to be coordinated with the Shippensburg University Facilities Management and Planning and Department of Public Safety.