6-27-2016

Fort Hays Kansas State College Library building estimation

Forsyth Library, Fort Hays Kansas State College

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FORT HAYS KANSAS STATE COLLEGE LIBRARY, HAYS, KANSAS, APRIL 25, 1963

Total Funds Available----------------------------------- $1,000,000.00
Fees----------------------------------------------- -40,000.00
Total--Building and Equipment----------------------------- 960,000.00
Estimate on Equipment--------------------------------- -150,000.00
New Utilities------------------------------------------ -20,000.00
3% Contingency---------------------------------------- -79,000.00
$ 810,000.00

Total Money for Building-------------------------------- $ 766,000.00

Landscaping - By College
Parking Lot - By College
Moving Cost - By College

Cost of Building Per Sq. Ft.--Estimated--$16.00

No. of sq. ft. available @ $16.00 = 47,870

Minimum Standards (American Library Association):

10 vols. per sq. ft. or 5 vols. per linear ft.
16 sq. ft. seating per person for 30% of undergraduate student
body, plus 100% seating for graduate students plus seating
for 20% of the faculty. (Current standards recommended 50% of
undergraduates.)

Present Building

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Total Sq. Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,500</td>
<td>28,929</td>
</tr>
</tbody>
</table>

Built in 1926 for 500 enrollment.

Seating - 11% x 3500 Students = 369 seats @ 10.6 sq. ft. = 3,912 sq. ft.
Volumes - 200,000 @ 20 per sq. ft. = 9,500 sq. ft.
Documents - 250,000 actually in 500 lin. ft. shelving = 3,375 sq. ft.
Total Space for other library facilities & services = 12,142 sq. ft. (42%)

Total Building Space (Present Library Use) 28,929 sq. ft.

Comparison of present library with minimum standards of American Library
Association Standards for present college enrollment of 3500 students:

Seating - 30% x 3500 Students = 1050 seats @ 16 sq. ft. = 16,800 sq. ft.
Volumes - 200,000 @ 10 per sq. ft. = 20,000 sq. ft.
Documents - 250,000 should be in 750 lin. ft. shelving = 5,600 sq. ft.
Total space for other library facilities & services = 24,600 sq. ft. (42%)

Total Building Space (should have for present library use) = 67,000 sq. ft.
<table>
<thead>
<tr>
<th>Library Building Needed by 1965</th>
<th>Enrollment</th>
<th>Total Sq. Ft.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4,400</td>
<td>85,000</td>
<td>$1,600,000</td>
</tr>
<tr>
<td>Seating - 30% x 4400 students = 1320 seats @ 16 sq. ft.</td>
<td>= 21,000 sq. ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Volumes - 270,000 @ 10 per sq. ft.</td>
<td>= 27,000 sq. ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Documents - 250,000 items in 750 lin. ft. shelving</td>
<td>= 5,400 sq. ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total space for other library facilities &amp; services (see Page 3)</td>
<td>= 31,400 sq. ft. (37%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Building Space = 85,000 sq. ft.

Cost @ $16.00 per sq. ft.:
- Fees 4%: $51,000.00
- Equipment: $150,000.00
- Utilities: $20,000.00
- 3% Contingency: $33,000.00
- Parking lot, landscaping & moving costs: $61,000.00

Total: $1,600,000.00

Library Building Needed by 1970

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Total Sq. Ft.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,200</td>
<td>112,000</td>
<td>$2,175,000</td>
</tr>
</tbody>
</table>

Seating - 30% x 5200 students = 1560 seats @ 16 sq. ft. = 25,000 sq. ft.
Volumes - 400,000 @ 10 per sq. ft. = 40,000 sq. ft.
Documents - 400,000 items in 1,000 lin. ft. shelving = 8,000 sq. ft.
Total space for other library facilities & services = 39,000 sq. ft. (35%)

Total Building Space = 112,000 sq. ft.

Cost @ $16.00 per sq. ft.:
- Fees 4%: $72,000
- Equipment: $175,000
- Utilities: $20,000
- 3% Contingency: $54,000
- Parking lot, landscaping & moving costs: $62,000

Total: $2,175,000
### Other Library Facilities and Services

<table>
<thead>
<tr>
<th>Facility</th>
<th>Present Bldg.</th>
<th>New Bldg.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing area (Cataloging, Acquisition, Serials and Documents)</td>
<td>2,933 sq. ft.</td>
<td>6,944 sq. ft.</td>
</tr>
<tr>
<td>Seminar</td>
<td>0 sq. ft.</td>
<td>1,662 sq. ft.</td>
</tr>
<tr>
<td>Reserve Book Room</td>
<td>612 sq. ft.</td>
<td>1,152 sq. ft.</td>
</tr>
<tr>
<td>Curriculum Laboratory</td>
<td>611 sq. ft.</td>
<td>0 sq. ft.</td>
</tr>
<tr>
<td>Library Science Classroom</td>
<td>184 sq. ft.</td>
<td>720 sq. ft.</td>
</tr>
<tr>
<td>Micro Materials</td>
<td>32 sq. ft.</td>
<td>720 sq. ft.</td>
</tr>
<tr>
<td>Map Room</td>
<td>133 sq. ft.</td>
<td>720 sq. ft.</td>
</tr>
<tr>
<td>Circulation &amp; Documents Service</td>
<td>1,682 sq. ft.</td>
<td>1,840 sq. ft.</td>
</tr>
<tr>
<td>Offices</td>
<td>412 sq. ft.</td>
<td>912 sq. ft.</td>
</tr>
<tr>
<td>Film Library</td>
<td>412 sq. ft.</td>
<td>768 sq. ft.</td>
</tr>
<tr>
<td>Shipping, Receiving, Storage Area</td>
<td>0 sq. ft.</td>
<td>1,896 sq. ft.</td>
</tr>
<tr>
<td>Elevator</td>
<td>0 sq. ft.</td>
<td>81 sq. ft.</td>
</tr>
<tr>
<td>Janitor Rooms</td>
<td>171 sq. ft.</td>
<td>180 sq. ft.</td>
</tr>
<tr>
<td>Rest Rooms and Student-Staff Locker Room</td>
<td>738 sq. ft.</td>
<td>1,674 sq. ft.</td>
</tr>
<tr>
<td>Catalog, Indexes &amp; Bibliographies (both reference and documents)</td>
<td>1,000 sq. ft.</td>
<td>3,276 sq. ft.</td>
</tr>
<tr>
<td>Stairs, Lobby, Vestibule &amp; Corridors</td>
<td>3,222 sq. ft.</td>
<td>5,278 sq. ft.</td>
</tr>
<tr>
<td>Mech, equip. basement</td>
<td>0 sq. ft.</td>
<td>3,577 sq. ft.</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>12,142 sq. ft.</td>
<td>31,400 sq. ft.</td>
</tr>
</tbody>
</table>

### Acquisition of Materials - current yearly rate which will increase.

| Items by purchase | 10,000 |
| Items by gift     | 2,650  |
| Items by exchange | 8,520  |
| Serial items      | 19,744 |
| **Total**         | 40,914 |

| Items by depository | 40,500 |

Projected enrollments:

- 1963 - 3700
- 1964 - 4000
- 1965 - 4400
- 1966 - 4800
- 1967 - 5250
- 1968 - 5600

Seating (out) - open other study areas.
## ANALYSIS OF RECENTLY BUILT ACADEMIC LIBRARIES

1. University of Nevada

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Total Sq. Ft.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,000</td>
<td>100,000</td>
<td>$2,100,000</td>
</tr>
</tbody>
</table>

- Seating: \(30\% \times 4000 = 1200\) seats @ 16 sq. ft. = 19,200 sq. ft.
- Volumes: 350,000 @ 10 per sq. ft. = 35,000 sq. ft.
- Total space for other library facilities and services = 45,800 sq. ft. (45.8%)

Total Building Space: 100,000 sq. ft.

2. Central Washington State College

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Total Sq. Ft.</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,315</td>
<td>74,250</td>
<td>$1,200,000</td>
</tr>
</tbody>
</table>

- Seating: \(30\% \times 2315 = 700\) seats @ 16 sq. ft. = 11,200 sq. ft.
- Volumes: 225,000 @ 10 per sq. ft. = 22,500 sq. ft.
- Total space for other library facilities and services = 40,500 sq. ft. (54%)

Total Building Space: 74,250 sq. ft.

3. Earlham College, Indiana

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Seating</th>
<th>Area</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>850</td>
<td>500</td>
<td>42,000</td>
<td>$1,000,000</td>
</tr>
</tbody>
</table>

- Seating: 500 x 16 sq. ft. = 8,000 sq. ft.
- Volumes: 200,000 @ 10 per sq. ft. = 20,000 sq. ft.
- Total space for other library facilities and services = 14,000 sq. ft. (33.3%)

Total Building Space: 42,000 sq. ft.

4. Colgate University

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Seating</th>
<th>Area</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,410</td>
<td>600</td>
<td>80,155</td>
<td>$1,800,000</td>
</tr>
</tbody>
</table>

- Seating: 600 x 16 sq. ft. = 9,600 sq. ft.
- Volumes: 400,000 @ 10 per sq. ft. = 40,000 sq. ft.
- Total space for other library facilities and services = 30,555 sq. ft. (34%)

Total Building Space: 80,155 sq. ft.

5. Simmons College

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Area</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,572</td>
<td>82,000</td>
<td>$1,800,000</td>
</tr>
</tbody>
</table>

- Seating: 30% x 1572 = 470 seats @ 16 sq. ft. = 7,500 sq. ft.
- Volumes: 268,000 @ 10 per sq. ft. = 26,800 sq. ft.
- Total space for other library facilities and services = 47,700 sq. ft. (58%)

Total Building Space: 82,000 sq. ft.
### Wichita University

<table>
<thead>
<tr>
<th>Enrollment</th>
<th>Seating</th>
<th>Total Area</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,500</td>
<td>1,100</td>
<td>110,362</td>
<td>$1,464,875</td>
</tr>
</tbody>
</table>

Seating - 1,100 x 16 sq. ft.
Volumes - 350,000 @ 10 per sq. ft.
Total space for other library facilities and services

**Total Building Space**

= 17,600 sq. ft.
= 35,000 sq. ft.
= 57,762 sq. ft. (52%)
= 110,362 sq. ft.
1. Structure:
   (a) Footings - Because of unstable soil conditions and the extreme heavy loading of this building the building will have to be set on pedestals. This type of footing will increase construction cost by $60,000.00 above conventional type foundations.
   (b) Frame will be reinforced concrete column and slab type.

II. Walls:
   (a) Exterior wall of masonry type construction stone facing with lightweight block backup.
   (b) Interior wall will be lightweight block where necessary. A removable type wall where necessary.

III. Materials:
   (a) Floors - Composition type.
   (b) Ceilings - Acoustical material.
   (c) Toilets - Ceramic tile floor and wainscots on walls.
   (d) Roof - 20 year built-up roof.

IV. Mechanical Systems:
   (a) Steam, water, electricity, and etc. will be furnished by utility tunnel, jointly with the Speech and Music Center Building.
   (b) The building will be air-conditioned.
   (c) Steam from the power plant will be used for heating and hot water.
   (d) Electrical work shall include a complete system of lighting including fixtures, outlets, switches, conduit, main services, wires and wiring, pull boxes, disconnect switches, lighting panelboards, main distribution panel. Power for all equipment and motors, two-way intercommunication system to all key offices, telephone service, a fire alarm system shall be installed throughout the building. Lighting foot candle shall range from a minimum of 50 ft. candle to a maximum of 70 ft. candle power.
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