

Barbara S. Uehling, Chancellor University of Missouri-Columbia Columbia, Missouri 65211

Re: University of Missouri-Columbia School of Law Development Options

Dear Chancellor Uebling:

Enclosed for your reference is the summary report on development options for the School of Law. This report is intended to identify options and alternatives. This report is an end product of a thorough investigation of thirteen options. Three options, having greatest merit were investigated in Jetail. A final decision as to choice of direction must focus on three determinants, Educational Program, Costs and Implementation.

This study has identified many planning issues and opportunities beyond that of the Law School itself. It is our professional opinion that the Law School Building offers, because of its size, character and location potentials, a significant opportunity for new directions in campus planning.

This planning assignment has been a most exciting and challenging process. We especially appreciate the contribution made in a team effort, by you. Allen Smith, Raymond Halbert. Jack Lister, Emmett Klinkernan and Osahund Overby.

We thank you for the opportunity to serve the University.

Sincerely yours,

WM. B. ITTNER, INC.

Robert O. Little President

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Introduction

In 1924, Tate Hall was constructed to house the University of Missouri's School of Law. Inity-five years later an addition was constructed to the west, to accommodate the growing education program and enrollment. Since that time, continued growth has produced the overcrowded conditions which exist within Tate Hall tocay.

NEEDS

The meeds of the present educational program have nutorown the present facility to the point where every available square foot is being utilized plus portions of the library are forced into storage in other buildings on campus. The need for additional educational space cannot be met within the present walls. The educational program is presently housed within 30,000 square feet of assignable area. To adequately accommodate not only the present educational program but the anticipated needs for the next twenty years, the School of Law requires a minimum of 85.GDO square feet of assignable area. This would bring the School of Law on the Columbia campus up to a level conparable with other schools of law in the midwest. The need for expanded facilities is obvious.

CPA! LENGE

The challenge of addressing and investigating the many issues of expansion and growth are great.

Options and alternatives for the physical expansion of the School of Law have been investigated with respect to issues such as internal functioning of the educational program; architectural, structural and mechanical implications; energy conservation; overall campus planning; historic significance, and most importantly, costs.

PROCESS.

To respond to the challenge quickly and effectively, a design charrette process was utilized. An intense three-day planning session on the site anabled the design team to review the needs, identify the issues and respond with three options and ten alternatives which have now been developed in further detail for viahility. The following poople from the University assisted WBI, Inc. in this effort:

Allen Smith Raymond Halbert Jack Lister Emmett Klinkerman Osmund Overby

PREMISE

To serve as a common denominator in the comparison of all options, the assumption was made that 85,000 square feet of net assignable area was required to meet the program needs as expressed by the School of Law. Using the standard formula of 70% efficiency this translates to 122,000 gross square feet for use in calculating the total COST of construction. Likewise, the unit costs of \$40.00/sa. ft. for renpvation and S60.00/sq. ft. for new construction reflect the prices for jobs bid in June of 1979. Equipment, contingencies and fees are figured at 20% of the construction cost.

This report is intended to identify the options and alternatives for expanded facilities and not to recommend a specific solution.

The 3 Basic Options

As the options were investigated, it became apparent that many did not adequately address all the issues involved. Through a process of elimination, three options appear to be the most viable:

- A. Build a <u>New</u> building (on a separate site)
- Build an Annex facility (on a separate site)
- C. Build an Addition
 (adjacent to Tate Hall)

This project could be accomplished by two methods, either as a single project or it can be phased.

Phasing of construction can be accomplished by two methods:

1. External Phasing

Build the facility piece by piece

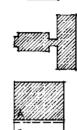
2. Internal Phasing

Build the entire shell at first, utilizing the interior as meeded.

NEW



ANNEX



ADDITION



EXTERNAL PHASING







INTERNAL PHASING

Option 1 Build a New Building/New Site

This option proposes construction of an entirely new facility to house the School of Law. It would be four stories in height and occupy a new site.

<u> Program</u>

New Facility 122,000 gross sq. ft.

85,000 net sq. ft.

Total Construction Cost \$7,320,000

Contingencies & Fees __3,454,000

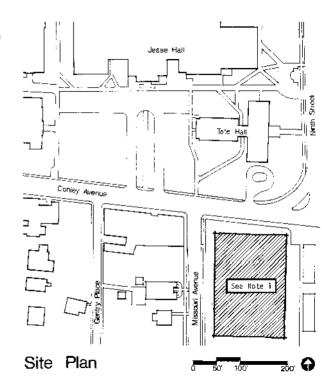
Total Project Cost \$8,784,300

* External Phasing

* Internal Phasing

Note 1

One such location is the site south of Conley Avenue and east of Missouri Avenue. It would face and have major access from the Ninth Street Pedestrian Mall.



Build a New Building/New Site

Advantages

- A new structure would respond specifically to the program needs of the School of Law. The new building would not have the requirements of an existing building shaping the decision making/design process.
- The new structure will be designed with energy efficiency in mind, thereby reducing maintenance and operating costs.
- Implementation is clear and does not disturb the educational process.
- New construction can be more efficient than removated construction.

Disadvantages

- Cust because the spaces created in the new building would be more efficient, does not necessarily mean that they would be more cost effective.
 The difference between costs of new construction and the costs of removation indicate that this has the most expensive first costs.
- •No matter who becomes the new tomant of Tate Hall, the University still must allocate the funds necessary to prepare Tate for re-occupancy. Not calculated in comparing the development cost of a new building to other options, is the subsequent cost of removating Tate Fall after vacated by the School of Law.
- This solution would require the use of a different site,

Option 2 Build an Annex Facility

This potion proposes complete renovation of Tate Hall for principal use by the administrative offices and Library. Another facility would be developed south of Conley Avenue along the Ninth Street Pedestrian Mall to accommodate library space, faculty offices, support facilities and classroom activities.

Program

Tate Hall 44,000 grass sq. ft.

30,000 net sq. ft.

New Facility 78,000 gross sq. ft.

55,000 net. sq. ft.

Total 122,000 gross sq. ft.

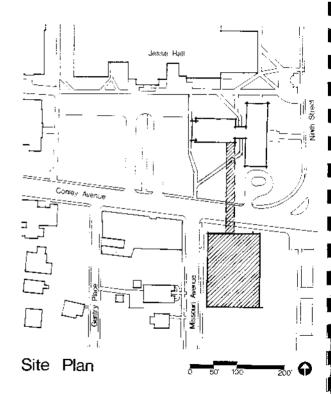
85,000 met sq. ft.

Total Construction Cost \$6,440,000

Contingencies & Fees 288,000

Total Project Cost \$7,728,000

- * External Phasing
- * Internal Phasing



Option 2 Build an Annex Facility

Advantages

- Renovation of the existing classroom space would reduce the amount of new construction required in satisfying the space needs, thus reducing the total construction cost.
- Dues not disturb the relationship of Tate Hall to Jesse Hall.

Disadvantages

- The tost significant problem is that
 of coordinating an inter-dependent
 educational program out of two lacations. Since the participants in
 the school's activities are limited
 to staff, students and faculty,
 forcing these individuals to commute
 from one location to another will
 seriously reduce the effectiveness
 of the educational program.
- The development of a classroom annex on a site removed from Tate Hall, requires the construction of complimentary service facilities in each location. The increased cost of providing duplicate facilities is difficult to justify.
- Implementation is difficult and does disturb the educational process.
- The passageway between huildings poses a possible security problem.

Option 3 Build an Addition

This option proposes complete renovation of Tate Hall, and construction of a five-level structure partially encircling the West Wing. The Fast Wing would be used principally for administrative offices and program support facilities. The existing passageway between wings would be cleared of all encumbrances (including the existing elevator) and used as the main focal point for entry and circulation. The existing floor space in the West Wing will be directly extended into the new structure to house the library, faculty offices, classrooms and countrooms.

Program

Tate Hall 44,000 gross sq. ft.

30,000 net sq. ft.

Addition 78,000 gross sq. ft.

55,000 net sq. ft.

Total 122,000 gross sq. ft.

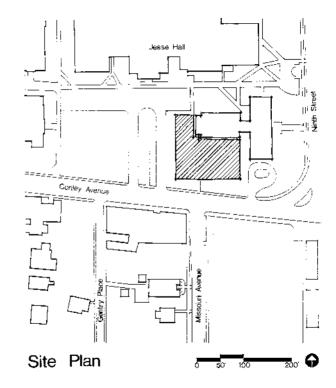
85,000 net sq. ft.

Total Construction Cost \$6,440,000

Contingencies & Fees 5.288,000

Total Project Cost \$7,728,000

- * External Phasing
- ▼ Internal Phasing



Option 3 Build an Addition

Advantages

- Renovation of the existing classroom space would reduce the amount of new construction required in satisfying the space needs, thus reducing the total construction tost.
- · Ltilizes and preserves available land
- Maintains a viable educational program
- There will be advantages in energy usage by partially encircling the existing building.

Disadvantages

- Implementation is extremely difficult and will greatly disturb the educational process.
- Its location poses a most difficult architectural challence.
- It's location limits any future growth potential.
- The form and height of the building must be designed so as to complament the mistoric value of the original Tate ball, avoid visual conflict with desce Hail

Conclusion

From the analysis of all thirteen options, it is clear that there are advantages and disadvantages to each.

A final decision as to direction must focus on the following determinants:

- 1. Educational Program
 - Function
 - Srea
- 2. Cost
 - New Construction 2 \$60/sq. ft.
 - Renovation 3 \$40/sm. ft.
 - Maintenance and Operating Costs
- 3. Implementation
 - Construction Phasing
 - Construction Funding

These three determinants are interdependent.

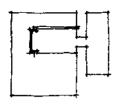
Obviously these determinants will be answered within the context of the overall campus plan.

Appendix

This portion of the book consists of two parts:

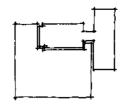
The first part describes the other ten options that were developed by the design team.

The second part consists of the Design Charette Drawings.



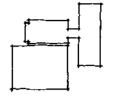


This option brodoses complete mendvation of Tate Hall and development of a five-level addition encircling the West Wing of Tate Hall.



Option 5

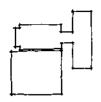
This option proposes complete removation of Tate Hall and development of a five-level addition to Tate Hall. This option would produce great technical difficulties in connecting with two differing floor levels. The elimination of many windows from the East Wing would create additional problems in providing natural light for the administrative offices. In meeting the internal space requirements. due to the finaration proposed. the site would become overdeveloped. The crowding of the sidewalk along Conley Avenue, and elimination of the trees west of Tate Hall would create a most unpleasant experience of Control Campus and the School of Law.

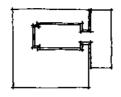


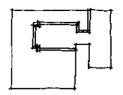


Option 6

This option proposes complete renovation of Tote Hall, development of a new library facility adjacent to Tate Hall and development of a separate classroom facility south of Conley Avenue.







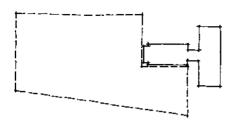
This option proposes complete rendvation of Tate Hall and construction of a ten-level addition to Tate Yoll. Although functionally feasible, it would create a structure that is out of character with existing development on the campus. There would be a visual conflict between the new tower and the doze on Jesse Hall.

Option 8

This option proposes complete renovation of Tate Hall and development of a five-level addition to Tate Hall. This aption would produce great technical difficulties in connecting with two differing floor levels. The elimination of many windows from the East Wing would create additional problems in providing natural light for the administrative offices.

Option 9

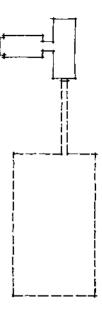
This option proposes complete renovation of Tate Hall and development of a five-level addition to Tate Hall. As in option 2b, this option would produce great technical difficulties in connecting with two differing floor levels. The elimination of many windows from the East Wing would create additional problems in providing natural light for the administrative offices.



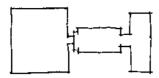
This option proposes complete renovation of Tate Hall and development of a two-level underground facility immediately to the west of Tate Lall Although considered because of its ability to preserve and enhance the visiblity of Jesse and Tate Halls. many complications arise. Maintaining vehicular scryice access to Jesse Half would require a continued access drive to be constructed above the addition. High costs for underground Construction would be dramatically increased because of problems with underground water and extensive mock excavation required.

Option 11

This obtion proposes complete rendvation of Tate Hall and development of a two-level underground facility south of Conley Avenue linked by means of an underground passageway. This option experiences the same programmatic difficulties as in options 15 and 1c, of running ar interdependent educational program out of two separate facilities. This obtion also creates the potential problems with user safety, as well as high cost of underground construction complicated by exten-Sive rock excavation, ground water problems and problems with existing utilities that run underground along Conley Avenue.







This option proposes the demnition of Tate Hall and constructing a new building on the same site. The cost of this option would be the highest of any considered in this book. This pertains to politics with outsiders in favor of restoration, as well as in terms of money.

Option 13

This cotion proposes the construction of a new facility south of Jesse Hall and west of Tate Hall. This option fits awkwardly on the site in its relationship to surrounding buildings.

Design Charrette Drawings

The following pages show the drawings that were developed by the design team in the charmette session that was held at the University of Missouri School of Law on February 15 and 16, 1979.

Only the construction busts were considered in this sossion. Therefore, the figures mentioned on page 19 are not the total project costs.

