

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 135 January 11, 1962

A meeting of the Campus Planning Committee was held at 9 a.m. on Thursday, January 11, 1962, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy and Mr. Robert L. Mason were present.

1843. Approval of Minutes

On motion made by Mr. Urbanovsky, seconded by Mr. Barrick, the Minutes of Meetings Nos. 132, 133 and 134 were approved.

1844. President's Approval of Minutes

The President approved the Minutes of Meetings No. 132 on December 7, 1961, and No. 134 on December 15, 1961.

1845. Chemical Engineering Building (Cain & Cain, \$326,003 - May 22, 1961)

A. Equipment (W. C. Hixson Company - \$15,954.20)

W. C. Hixson is in the process of fabricating the equipment. The few minor questions in connection with the shop drawings are being straightened out.

Mr. Barrick is to have another meeting with the Project Architects in order to make a recommendation which will be tendered to Cain & Cain to accept or reject. An attempt will be made to be as fair as possible to Cain & Cain.

1846. Classroom-Office Building

The Crawford Painting and Decorating Company reworked the blackboards during the holidays as promised.

Mr. Duncan did some work in the building during the holidays and seemed to feel that some additional tile work was all that remained to be done. A check will be made on the results.

1847. East Engineering Building (Appropriation 1961-62, \$6,650;
1962-63 \$8,000)

Mr. Barrick was requested to work with Miss Clewell and Mr. McElroy, who are responsible for space assignments, in order to develop a recommendation.

1848. Gymnasium (Old)

Boxing and Wrestling Area (W. B. Abbott & Company, Inc. - \$4,600)

The project is complete, and a final acceptance date of January 8, 1963 is recommended.

1849. Housing

A. Married Student Housing

Mr. Howell Killgore's request for a loan is still pending but he reported that the outlook is encouraging. He has available sufficient funds over the amount of the loan to construct the units. Mr. McElroy reported that Mr. Killgore plans to continue to work on the loan until he gets the units constructed or until the College does something on its own.

1849. HousingB. Dormitory and Dining Facilities for Women (Project: CH-Tex. 150(D))
(H. A. Lott, Inc. - \$2,764,546) (August 1, 1963)1. Work Order

The work order was issued on December 9, 1961.

2. Construction Progress

The contractor moved expeditiously onto the site and worked diligently until the severe weather set in.

C. Renovation of West Hall

As Mr. Brown has indicated that he would be willing to put some carefully selected men in the Hall when it is again opened to re-work the doors in question, Mr. McElroy was requested to check with Dean Garner and Mrs. Bates to see if there would be any objection. If there is none, he and Mr. Barrick are to check with Mr. Irvin to be sure that the College would not forfeit its rights under the bond if such procedure is accepted and work out an operating procedure.

D. Long-range Plan

The various ramifications were discussed at length and it was agreed that the Chairman would summarize the questions asked and send the list to all those present. Each one will study the list, add any new thoughts and return the information.

1850. Journalism (Appropriation 1961-62 - \$60,000)

Mr. Barrick reported that a great deal of work has been done on the project but he needs to know if facilities are needed for student printing, where is the Public Information Department to be located, and is the advertising laboratory still to be in the basement?

1851. Library (J. M. Odom Construction Company - \$2,146,379)A. Construction Progress

Progress has been as good as the weather permitted for the past several days. The contractor has been rather badly restricted in his activities by bad weather.

B. Equipment

All items are now on order.

C. Carrels (32 - \$16,000)

The sketches are not quite finished yet.

D. Stacks (Remington Rand - \$57,017)

The stacks are stored in town and are available whenever needed.

1852. Library, Old (1961-62, \$50,375; 1962-63, \$33,375)

The use of the building was discussed at length. Mr. Barrick had some questions pertaining to new suggestions for use of the space. A concerted effort is to be made to recommend a final plan.

1853. Music BuildingA. Division of Library into Two Classrooms
(W. B. Abbott & Co., Inc. - \$3,280.00)

The chalkboard material is on hand. The trim is due and, as soon as it arrives, the contractor will complete the installation.

B. Additional Needs

The Department is badly overcrowded and means for a temporary solution were discussed. It was agreed to ask Dr. Hemmle to examine the old Dairy Barn for possible use. (He reported that some of the rooms on the south, possibly, could be used as practice studios.)

1854. Other ItemsA. Building Signs

Mr. Urbanovsky presented a rather lengthy report on the studies so far, but said that additional work should be done in order that the problem may have thorough treatment. He stated that the report will be ready in time for the February meeting of the Board.

B. Bonded Roofs

Attached and made a part of the Minutes is a letter from Mr. A. W. Eckert, Business Manager of the Lubbock Independent Schools, which will be used in connection with future buildings. (Attachment No. 382, page 1088)

C. Senior Class Gift

It was agreed to request Mr. Ray Downing to work with Miss Peggy Maloy and the officers of last year's Senior Class in order to develop a recommended plan to light the towers and present it to the CPC when he is ready.

1855. Psychology

Mr. Barrick reported that Dr. Kuntz has conveyed the functional needs to him. Space is needed for Clinical Psychology, experimental psychology (using small animals), and the Testing and Counseling Center. It would be too costly to remodel a portion of the Old Library for Psychology. It will not involve a heavy off-campus traffic pattern but the Testing and Counseling Center would require relatively heavy on-campus traffic.

It was agreed that a check should be made with the President and Dean to see if they are now ready to move.

1856. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)1. Dairy Facilities

- a) Milking Parlor (C. M. Pharr - \$40,800)
(Completed November 13, 1961)

Equipment (Ellerd and Ellerd - \$9,765.00)

Complete

- b) Metal Buildings (Feed Barn, Calf Barn, and Hay Storage)
(Stout Steel Builders - \$40,260 - 90 Days)

Construction Progress

The buildings would have been completed had it not been necessary for the contractor to replace all roof sections and the cold weather now has caused delay.

1856. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)1. Dairy Facilitiesc) Fencing (\$3,449)

The work is to be done by the Animal Husbandry Department and has not started yet.

d) Water Troughs (\$400)

On hand but not installed.

e) Water Pipe, 802' (\$922)

Completed

2. Beef Cattle Facilitiesa) Metal Buildings (Stout Steel Builders, \$5,861 - 90 Days)Construction Progress

The building would have been completed had it not been necessary for the contractor to replace all roof sections.

b) Scales and Housing (\$2,550)

The scales are on hand but the installation must be delayed until the site preparation is completed by the Animal Husbandry Department.

c) Fencing (Including Gates) (\$4,311)

Completed

3. Beef and Dairy Cattle Lot Paving and Grading
(Frank Hodges, \$47,625)

Only a very small portion of the work remains, but it can't be done until the buildings are finished.

4. Poultry Facilities (Stout Steel Builders - \$20,673 - 90 Days)a) Construction Progress

The buildings would have been completed had it not been necessary for the contractor to replace all roof sections and the cold weather now has caused delay

b) Equipment

All equipment is on hand except the flying saucers and the nests.

5. Poultry Facilities, Partitions and Mechanical Work
for Metal Buildings (Tatum and Gailey - \$13,930)Construction Progress

An inspection was made last Monday, January 8, 1962. A few items remain to be done. The job is probably 98% complete.

1857. Science Building (Carl E. Maxey - \$431,707 - February 13, 1962)A. Construction Progress

The contractor is still making good progress, and is ready to install the roof as soon as weather permits.

B. Furniture and Millwork (Hamilton Manufacturing Company - \$44,255)

Shop drawings from the Hamilton Manufacturing Company have yet to be received.

C. Classroom, Laboratory and Office Equipment (\$29,189)

Everything is on order except the microscopes and the stills, and the Department Heads are reviewing the bids on those at the moment.

D. Classroom, Laboratory and Office Equipment (\$13,147)

Bids have been received and are being reviewed at this time.

1858. Sewage Effluent

In keeping with the Board's instructions at the last meeting, a meeting was held on December 23, 1961, in Levelland, with Mr. Al Allison, Mayor David Casey, City Attorney Fred Senter and M. L. Pennington present. Agreement was reached on a 20-year term, with a 10-year option on the part of the College, and the few other items needing attention. The contract has been executed by the Chairman and Secretary of the Board of Directors and forwarded to the City Manager.

Construction bids are to be opened February 14, 1962, at 2:30 p.m. in Room 220 of the Administration Building.

1859. Speech

In view of recent communications from the Speech Department through various sources which have resulted in clouding the needs, the Head of the Speech Department is requested to prepare a complete statement of functional and operational needs.

1860. Student Union (V & N Construction Company - \$817,794)A. Construction Progress

Construction is approximately 98% complete.

B. Kitchen Equipment (Fort Worth Fountain and Hotel Supply - \$51,568)

The purchased items are being delivered. The contractor plans to start installation on January 22, 1962. There may still be a few questions in connection with the shop drawings.

C. Furniture and Equipment (\$83,080)

All is on order with the exception of one or two minor items.

D. Faculty Dining Room Furniture and Equipment
(Decorators Studio & Thomas Bros. Company - \$15,633.18)

All is on order.

E. Ex-Students Office Furniture (\$2,500)

All is out for bids.

1861. Texas Tech PressAir Conditioning

Mr. Barrick will convey the CPC's request to the Project Architect at the first opportunity.

1862. Textile Engineering Building

It was agreed that Mr. Mason will write the program, set the scope of performance and let the CPC know when he has finished in order that a recommendation for the employment of an engineering firm may be made.

1863. West Engineering Building Renovation (1961-62 - \$7,000)

Mr. Barrick was requested to work with Miss Clewell and Mr. McElroy, who are responsible for space assignments, in order to develop a recommendation.

M. L. Pennington
Chairman

The meeting adjourned at 12:50 p.m.

Campus Planning Committee
January 11, 1962
Attachment No. 382
Item 1854

C O P Y

LUBBOCK INDEPENDENT SCHOOL DISTRICT
Nat Williams, Superintendent

Lubbock, Texas

A. W. Eckert
Business Manager

December 28, 1961

Mr. Nolan E. Barrick, A.I.A.
Supervising Architect
Texas Technological College
Lubbock, Texas

Dear Nolan:

Experience with roofing bonds in the Lubbock Independent School District has, I am sure, been similar to that you have encountered at Tech. We have found that a roofing bond, generally speaking, is not worth the money invested in the premium.

Quite some time back we dispensed with roofing bond requirements of general contractors. We now require that a roof be built in accordance with a 20-year standard roofing specification and be accompanied by a ten-year guarantee from the roofing contractor. We also make provision in our contracts for roofing cuts which we make at our discretion. We believe there are very few roofing contractors who have the ability and know-how to put a roof on in Lubbock that will withstand the terrific beating of this climate. We have some preferences, probably like you, but find it very difficult to use these specific roofers. When we do get one of them on a new job, we then have some confidence that our roof will stay intact and not be a continual maintenance problem. Possibly you may have better success in choosing roofing contractors than we; however, being a public institution makes it very difficult for us to be specific in our desires.

We believe that the best way to get a good roof on your buildings is only through constant and capable supervision. This may cost more money but will be worth it in the long run. If you can find time soon in the future, call me and we might have lunch together where we might share our problems and discuss more details that could be helpful to you.

Sincerely,

A. W. Eckert
Business Manager

AWE:sk(b)

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 136

January 31, 1962

A meeting of the Campus Planning Committee was held at 2 p.m. on Wednesday, January 31, 1962, in Room 120 of the Administration Building. Members present were: Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. In addition, Mr. Bill Crumley, Mr. Ray Downing, Mr. R. L. Mason and Mr. D. M. McElroy were present.

1864. Textile Engineering Building Humidity and Temperature Control

Chairman Pennington pointed out that the Board of Directors at the December 9, 1961, meeting had authorized the Campus and Building Committee to act between meetings on the preparation of plans and specifications, taking bids and other items necessary to present a recommendation for contract award at the February meeting of the Board. The CPC would be responsible for making the recommendation to the Campus and Building Committee. Mr. R. L. Mason, Supervising Engineer, at the January 11, 1962, CPC meeting had been requested to write up the program and set the scope of performance.

Mr. Mason's memorandum of January 17, 1962, and the definition of the program, conditions of the work and proposed time schedule are attached to and made a part of the minutes. (Attachment No. 383, Page 1091)

The CPC agreed that an engineering firm should be employed, and the engineering firms available were discussed. It was unanimously agreed that Zumwalt and Vinther be recommended, as they are the only firm with a local office having sufficient personnel to complete the work in the time allowed. It was agreed that the Chairman would poll the members of the Campus and Building Committee of the Board at once for approval.

Pending approval, the following actions were taken:

Mr. Mason, Mr. Downing and Mr. Crumley were asked to assist in coordinating the mechanical work, with Mr. Mason acting as the channel of information to the engineering firm.

It was agreed that preliminary layouts and cost estimates should be available by February 13, 1962. It was estimated that the cost of the mechanical work, plus the installation of the dropped ceiling, would be approximately \$25,000, with the ceiling representing \$6,000 to \$8,000. The sum of \$10,000 has been donated by the Plains Cotton Growers Association, and Mr. Crumley stated that another \$5,000 is available from existing funds.

Mr. Barrick was requested to have his office handle the design and specifications for contracting the dropped ceiling work.

The location of the mechanical equipment was discussed, and Mr. Downing stated that he favored its being located on the roof. Both he and Mr. Mason believed that it could be so located and would not be noticeable from the streets.

Mr. Pennington stated that if the preliminary plans and cost estimates were acceptable to the Board of Directors at the February 17 meeting, it would probably be advisable to request the Board to authorize the Campus and Building Committee to take the bids and award the contract between Board meetings in order to comply with the completion schedule.

1864. Textile Engineering Building Humidity and Temperature Control

The recommendation of the CPC to employ Zumwalt and Vinther at the rates previously set forth in a contract with the firm was submitted to the members of the Campus and Building Committee, and in order for the approval to be a part of the minutes, the voting was as follows:

| | | |
|---------------------------|-------|------------------|
| Mr. Harold Hinn, Chairman | "Aye" | February 1, 1962 |
| Mr. R. Wright Armstrong | "Aye" | February 1, 1962 |
| Mr. Wilmer Smith | "Aye" | February 2, 1962 |

D. M. McElroy
Assistant Comptroller

The meeting adjourned at 2:45 p.m.

Campus Planning Committee
January 31, 1962
Attachment No. 383
Item 1864

Texas Technological College
Lubbock

MEMORANDUM
FROM
OFFICE OF SUPERVISING ENGINEER

TO: Mr. M. L. Pennington

DATE: January 17, 1962

SUBJECT: Temperature-Humidity Control for Textile Laboratories.
Re: Item 1862 of CPC Meeting #135.

The attached has been prepared in regard to subject project, and has been discussed with Mr. Bill Crumley.

Items 1 and 2 stipulate the program to be accomplished.

Items 3 through 9 set forth some of the conditions to be considered before the final design can be made.

Item 10 suggests a time schedule for the project.

It is recommended that the CPC hold a meeting as soon as possible to discuss the list and other aspects which seem pertinent, and to arrive at a recommendation of an engineering firm for the project.

I believe that one hour should be ample time for the CPC to handle the matter.

Robert L. Mason
Supervising Engineer

RIM:mmm(b)

cc: Mr. N. E. Barrick
Mr. Elo Urbanovsky
Mr. D. M. McElroy
Mr. O. R. Downing

TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Office of the
Supervising Engineer

January 15, 1962

Temperature and Humidity Control for Laboratories of Textile Engineering Building.

1. Three laboratories require temperature-humidity control on the year-round basis. They are Picking, Carding and Spinning Laboratories.
2. Conditions to be maintained are 55% ($\pm 1\frac{1}{2}\%$) relative humidity and 75° ($\pm 2^{\circ}$) Fahr. temperature.
3. Existing equipment shall be utilized to fullest extent feasible. This equipment consists of air ducts, preheat coils, air filters, air washers, reheat coils and Minneapolis-Honeywell control equipment. In addition, a 45-ton York refrigerator compressor is being acquired by the College and is available for use in the project.
4. It is recognized that a considerable rearrangement may be necessary in the components of existing equipment, and that insulation of duct work may be necessary.
5. Intakes for return air shall be lowered to near floor level to improve air circulation. This is true in the Weaving Lab., in addition to laboratories listed above.
6. Condensing by air cooled equipment shall be given preference, with condensing equipment being installed on the roof, or on the south side of the Carding Laboratory.
7. It may be found most feasible to employ chilled water in cooling coils for best control of temperature and humidity.
8. The design shall include the presumption that a dropped ceiling will be utilized at a later date in the laboratories.
9. The new arrangement of inlet air ducts shall provide for the filtering of all air entering the conditioning coils.
10. A Consulting Engineering firm should be engaged immediately for this project. The preliminary study of the building and the recommended plan to handle the year-round control of temperature and humidity, together with cost estimates, should be completed by the Board meeting of February 17, 1962. Plans and specifications for bid taking should be completed shortly thereafter with bids taken and contract for the installation awarded by April 1, 1962. The installation should be completed as soon thereafter as possible, and not later than June 1, 1962.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 137 February 9, 1962

A meeting of the Campus Planning Committee was held at 9 a.m. on Friday, February 9, 1962, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. In addition, Mr. R. L. Mason and Mr. D. M. McElroy were present.

1865. Approval of Minutes

On motion by Mr. Barrick, seconded by Mr. Urbanovsky, the Minutes of Meetings Nos. 135 and 136 were approved.

1866. President's Approval of Minutes

The President approved the Minutes of Meeting No. 135 on January 17, 1962.

1867. Chemical Engineering Building (Cain & Cain, \$326,003 - May 22, 1961)

A. Equipment (W. C. Hixson Company - \$15,954.20)

The shop drawings are complete, and the supplier is in the process of fabricating the equipment at this time.

B. Time Extension

The CPC carefully considered Mr. Barrick's letter of February 8, 1962, and the tabulation which are attached to and made a part of the Minutes. (Attachment No. 384, page 1098)

After thorough consideration, the CPC voted to recommend forty (40) days at \$50.00 per day for a total of \$2,000.00 to be withheld from the contractor for liquidated damages. The recommended amount would give the contractor an additional time extension of nine (9) days from the date of the Work Order to the date the contract was signed. The CPC felt that no additional time deserved consideration.

1868. Classroom-Office Building

Mr. Duncan has yet to complete the few final items which he had promised to do during the holidays.

1869. East Engineering Building (Appropriation 1961-62, \$6,650; 1962-63, \$8,000)

The preliminary plans were studied in detail. It was agreed that the office arrangement would be restudied, and refined plans and cost estimates would be presented at the next regular meeting of the CPC.

Mr. Mason left the meeting at 10 a.m.

1870. Housing

A. Married Student Housing

Mr. McElroy reported that information has been received from the Finance Company indicating that Mr. Howell Killgore is going to get his project financed.

1870. HousingB. Dormitory and Dining Facilities for Women (Project: CH-Tex. 150(D))
(H. A. Lott, Inc. - \$2,764,546) (August 1, 1963)Construction Progress

The contractor is moving very expeditiously. The excavation work has been completed and footings are being poured.

C. Renovation of West Hall

Mr. Brown had indicated that he would refinish the doors during the semester if permissible. After a thorough check, there seems to be no feasible way to refinish the doors without unduly disturbing the occupants.

D. Long-range Plan

The original list of questions has been revised and is attached to and made a part of the minutes. (Attachment No. 385, page 1099)

1871. Journalism (Appropriation 1961-62, \$60,000)

The preliminary layouts were studied extensively, and it was agreed that the three following questions will have to be answered before definite decision may be made:

1. Will Public Information remain in the Journalism Building?
2. Is the Advertising Lab still to be included in the revised project?
3. If there is a daily Toreador, where will it be printed?

1872. Killgore Research Center

After consideration, the CPC voted to recommend architects in the following order:

1. George Short
2. Hucker and Parge
3. Rittenberry and Rittenberry

Also, it was recommended that the architects do the preliminary work usually done by the College and that the fee be 6% rather than the usual 5%.

Mr. Mason returned at 11:45 a.m.

1873. Library (J. M. Odom Construction Company - \$2,146,379)A. Construction Progress

The architects are moving as fast as the weather permits.

B. Completion Date

It was agreed to ask Mr. Pitts, Project Architect, to provide an estimated completion date on the project.

C. Equipment

Orders for all equipment have been placed and the suppliers will make delivery when requested.

1873. Library (J. M. Odom Construction Company - \$2,146,379)D. Carrels (32 - \$16,000)

Mr. Barrick presented plans for the proposed carrels which were approved. Funds have been approved by the Board of Directors for the purchase, and it was agreed that bids would be taken promptly.

The meeting recessed at 12:10 p.m. and reconvened at 1 p.m.

1874. Library, Old (1961-62, \$50,375; 1962-63, \$33,375)Status

Mr. Barrick presented five different schemes for the utilization of the Building. Each was discussed, but it was agreed that each would be studied, with a meeting to be held as soon as possible for a specific recommendation.

1875. Music BuildingA. Division of Library into Two Classrooms
(W. B. Abbott & Co., Inc. - \$3,280.00)

The work is finished.

B. Additional Needs

Dr. Hemmle has reported that the small buildings to the south of the Dairy Barn could be used as practice rooms on a temporary basis by adding a minimum amount of acoustical tile to alleviate some of the crowded conditions in the Music Building. Dr. Hemmle was requested to check the need with Mr. Bill Felty.

1876. Other ItemsA. Building Signs

Mr. Urbanovsky presented his latest developments in his study.

B. Senior Class Gift (Lights on towers of Administration Building)

Plans are being developed by Mr. O. R. Downing and Miss Peggy Maloy.

1877. Psychology

Mr. Barrick reported that the Psychology staff has presented a great deal of good information. After consideration of the information available, the CPC voted to recommend architects in the following order:

1. Wyatt C. Hedrick
2. Associated Architects and Engineers
3. Brasher and Goyette

1878. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)1. Dairy Facilities

- a) Metal Buildings (Feed Barn, Calf Barn and Hay Storage)
(Stout Steel Builders - \$40,260 - 90 Days)

Construction Progress

The buildings have been completed, and the final inspection has been made. As soon as the winches are in place on the poultry buildings, a final acceptance date will be recommended.

1878. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)1. Dairy Facilitiesb) Fencing (\$3,449)

No Change.

c) Water Troughs (\$400)

No change.

2. Beef Cattle Facilitiesa) Metal Buildings (Stout Steel Builders, \$5,861 - 90 Days)Construction Progress

The buildings have been completed, and the final inspection has been made. As soon as the winches are in place on the poultry buildings, a final acceptance date will be recommended.

b) Scales and Housing (\$2,550)

The scales and housing are now being installed.

3. Beef and Dairy Cattle Lot Paving and Grading
(Frank Hodges, \$47,625)Paving and Grading

Pending.

4. Poultry Facilities (Stout Steel Builders - \$20,673 - 90 Days)a) Construction Progress

The buildings have been completed, and the final inspection has been made. As soon as the winches are in place on the poultry buildings, a final acceptance date will be recommended.

b) Equipment

It is all on hand and available in the Warehouse when needed.

5. Poultry Facilities, Partitions and Mechanical Work for Metal Buildings (Tatum and Gailey - \$13,930)a) Construction Progress

Probably no more than \$50.00 of work remains to be done, but it cannot be completed until the buildings are finished.

1879. Science Building (Carl E. Maxey - \$431,707 - February 13, 1962)A. Construction Progress

The contractor is still making very good progress. He is finishing out the interior.

B. Furniture and Millwork

All shop drawings have now been checked and returned to the contractor.

1879. Science Building (Carl E. Maxey - \$431,707 - February 13, 1962)C. Classroom, Laboratory and Office Equipment (\$29,189)Status

All items have been ordered, and some of the material is beginning to arrive.

D. Classroom, Laboratory and Office Equipment (\$13,147)Status

A few items remain to be ordered, and specifications are being checked with the supplier.

1880. Sewage Effluent

Construction bids are to be opened at 2:30 p.m. in Room 260 of the Administration Building on February 14, 1962, and the recommendation for a contract award is to be made at a meeting of the Campus and Building Committee on Friday afternoon, February 16, 1962.

An alternate bid is being taken in order to avoid crossing the experimental research field with the line.

1881. Speech

Dr. Larson prepared the requested information which was referred to Mr. Barrick for analyzation and study.

1882. Student Union (V and N Construction Company - \$817,794)A. Construction Progress

The project is practically complete.

B. Completion Date

The architects are to make the prefinal inspection next Monday.

C. Kitchen Equipment (Fort Worth Fountain and Hotel Supply - \$51,568)

Shop drawings for the fabricated items have been conditionally approved. The purchasable items have been ordered and are beginning to arrive.

D. Furniture and Equipment (\$83,080)

All of the equipment has been ordered and is beginning to arrive.

E. Faculty Dining Room Furniture and Equipment
(Decorators Studio and Thomas Brothers Company - \$15,633.18)

Almost all of the equipment can be delivered when needed. However, it is anticipated that the carpeting cannot be installed before March 1.

F. Ex-Students Office Furniture (\$2,500)

Approximately half of the equipment is on order, and the other half is scheduled for placement next week.

1883. Texas Tech PressAir Conditioning

The architect is to bring the information on his next trip to Lubbock.

1884. Textile Engineering Building

Engineers have been employed, and the preliminary plans and cost estimates are to be presented to the Campus and Building Committee of the Board Friday afternoon, February 16, 1962. The engineering fee is to be 6%.

1885. West Engineering Building

The remodeling is still under study.

M. L. Pennington
Chairman

The meeting adjourned at 2:15 p.m.

Campus Planning Committee
Attachment No. 384
February 9, 1962
Item No. 1867

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Supervising Architect

February 8, 1962

Mr. M. L. Pennington
Vice President and Comptroller

Dear Mr. Pennington:

Re: Chemical Engineering
and Nuclear Reactor Building

The following is another attempt to clarify the extremely confused situation surrounding the allowable extension of time for the completion of the referenced project. I have searched the correspondence files again, and the attached tabulation may be of some help in arriving at a conclusion which might support a positive recommendation to the Board of Directors.

Date of original contract: June 1, 1960

Construction time quoted: 350 consecutive calendar days

Date of Completion: May 14, 1961

I believe it is well to point out that no revision was made in the completion date despite the fact that the Nuclear Reactor portion of the building was deleted from the project. The contractor was, therefore, given a tremendous advantage in being allowed 350 calendar days to complete approximately one-half of the original scope which was bid.

It is extremely difficult to evaluate the validity of the several requests from the contractor because of duplicate requests, delays in making requests, etc. I do not suggest that he deliberately attempted to cloud the issue, but the end result amounted to precisely that. The requests fall into two basic groupings, and I have tabulated these two groupings separately. The first started with an objection to the date of the contract because of the delay in securing all signatures on the contract documents. We did, at the contractor's request, revise the date of the contract from 1 June to 9 June 1960. This might bring out some controversy since the work order was effective 1 June 1960 as the starting date for the 350 calendar days construction time. On the other hand, the contractor did not object to moving on the site prior to signing the contract in compliance with a work order issued by the architects on 1 June 1960. In fact, it is my distinct recollection that he moved onto the construction site a day or so prior to 1 June with our permission. This would seem to me to signify an acceptance of the work order, if we wish to be arbitrary about the matter. This first group of requests terminates with a rather remarkable document claiming an extension of nine weeks due to a delay in the approval of shop drawings by the architects. No dates are specified for this nine-week extension.

The dates in the first grouping of requests were handled quite reasonably, it seems to me, by the architects. All were considered carefully and recommendations were made with the omission of Saturdays and Sundays, but this was later revised to include week ends since the construction time was in calendar days rather than working days. Certain of these requests were not submitted in accordance with Paragraph 18 of the General Conditions and were consequently not valid requests in any sense of the word.

The second grouping of requests will be found in the letter from Cain & Cain dated 11 August 1961, in which letter virtually the entire months of December, January, February and March are claimed for extension due to the fact that the weather made it "impossible or impracticable to place or install concrete and/or masonry materials." As a matter of record, the contractor actually poured concrete on December 19, 20, 23, 27, January 3, 5, 12, 23 and 30, and February 1, 2, 4, 8, 13, 14 and 18. The architects have not taken this request seriously for two reasons. First, it was not submitted in accordance with the General Conditions, and second, it does not conform to the actual work pattern during that time. The job simply was not closed down for those months, and it is not realistic to expect the Owner to extend time for construction on the basis of weather when actual work is being conducted by the contractor.

I see no valid reason for following an approach other than that outlined by Mr. R. Briggs Irvin in his letter of 5 December 1961 which advocates the support of the architects' recommendations for an extension of time in the amount of 17 days. The only possibility in justifying an extension beyond that would be to grant an additional nine days to cover the period from June 1 through June 9, 1960 since these nine days were utilized in securing all signatures to the contract, and we actually did agree to a change in the contract date. This would certainly be taking a long step in the direction of being fair and equitable inasmuch as we would be virtually handing the contractor nine full working days as a gift.

In the event we follow this course, our dates would be as follows:

Adjusted date of contract: 9 June 1960

Time of construction: 350 calendar days

Adjusted completion date: 24 May 1961

If we add 17 days allowable extension of time to this date, we would have an adjusted completion of 10 June 1961.

We actually began to occupy the building on 19 July 1961, and we have recommended that the liquidated damages cease on that date although we did not formally accept the entire building until a week later. The time between 10 June 1961 and 19 July 1961 would, therefore, represent that portion for which liquidated damages at \$50.00 per day could be assessed. This would be 40 days at \$50.00 per day for a total of \$2,000.00.

I do not see how the College could go farther in the direction of accommodating the contractor. If the foregoing procedure were followed, we would virtually be giving him the benefit of two weeks or more of working time. I feel that his rather serious charges against the architects for dereliction of duty in respect to the approval of shop drawings and the supervision of the work constitutes a matter entirely separate from that of liquidated damages.

If there is further objection by the contractor, I believe we could establish from his payroll records that work on Fridays, Saturdays and Mondays were definitely not at full force.

Very truly yours,

/s/ Nolan E. Barrick

Nolan E. Barrick, A.I.A.
Supervising Architect

NEB:mc(g)

enc.

| Dates Requested | Reason | Architects' Recommendations | References |
|------------------------------|---|--|-------------|
| <hr/> | | | |
| 1960 | Group I | | |
| June 1 | | | C&C |
| 2 | | | 9 June '60 |
| 3 | | | |
| 4 | | | NEB |
| 5 | Time for signing contract. | | 10 June '60 |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| Dec. 27 | Weather - electric power interruption (I believe 27, 28 & 29 Dec. are the proper dates, c/c letter missing) | 3 days (4 req.) | NEB |
| 28 | | | 26 Jan. '61 |
| 29 | | | Assoc.Arch. |
| | | | 20 Jan. '61 |
| Jan. 24 | Weather | 4 days (later revised to 6) | C&C |
| 25 | | | 2 Feb. '61 |
| 26 | | | Assoc.Arch. |
| 27 | | | 7 Feb. '61 |
| 28 | | | 15 Aug. '61 |
| 29 | | | |
| Feb. 10 | Weather | Reject | C&C |
| 11 | | | 20 Feb. '61 |
| 12 | | | Assoc.Arch. |
| 13 | | | 20 June '61 |
| 14 | | | |
| 15 | | | |
| 16 | | | |
| 20 | Weather | 5 days (later revised to 7) | C&C |
| 21 | | | 28 Feb. '61 |
| 22 | | | Assoc.Arch. |
| 23 | | | 20 June '61 |
| 24 | | | 15 Aug. '61 |
| 25 | | | |
| Apr. 6 | Weather | Reject - noncompliance with General Conditions | C&C |
| 7 | | | 12 Apr. '61 |
| | | | Assoc.Arch. |
| | | | 20 June |
| 9 weeks (no dates specified) | Delay in shop drawings approval. | Reject | C&C |
| | | | 17 Apr. '61 |
| | | | Assoc.Arch. |
| | | | 20 June '61 |
| <hr/> | | | |
| Dec. 1 | Group II | | C&C |
| 5 | Weather | | 11 Aug. '61 |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | (total request of 120 days) | | |
| 12 | | | |
| 13 | | | |
| 14 | | | |
| 15 | | | |
| 16 | | | |

| Dates Requested | Reason | Architects' Recommendations | References |
|--|---|--------------------------------|-----------------------------|
| Dec. 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 | Group II | | |
| Jan. 1 through 31 | Weather | | |
| Feb. 1 2 3 4 5 6 7 8 9 10 11 14 19 20 21 22 23 24 25 27 28 | <p>"Impossible or impracticable to place or install concrete and/or masonry materials."</p> <p>Contractor actually poured concrete on Dec. 19, 20, 23, 27 Jan. 3, 5, 12, 23, 30 Feb. 1, 2, 4, 8, 13, 14, 18</p> | Reject | Assoc. Arch. 21 Aug. '61 |
| Mar. 1 2 8 9 13 17 19 20 29 | | | |

Campus Planning Committee
Attachment No. 385
February 9, 1962
Item No. 1870

LONG-RANGE PLAN

1. How far shall we go with housing? What philosophy shall be followed?
2. Should we provide more housing for women than men? Very likely a new hall for women would be needed by September 1, 1964? Couldn't we use another hall for men by the time it could be constructed?
3. How shall we proceed?
4. Should we have an accurate survey made of the area surrounding the College to determine what potential housing could be accommodated in a reasonable distance?
5. Should a statement to the effect that Texas Tech will build no more dormitories for a specified number of years to encourage private capital to build new housing and to improve housing within the environs of the campus be issued?
6. What shall be the weekly cycle of classes - 8 a.m. to 5 p.m., 7:30 a.m. to 5:30 p.m., etc.?
7. Shall there be more labs held in the mornings? (Some departments are doing it pretty well now, but others are not doing it at all. They're asked for a 40% to 60% ratio.) Will the question as to whether or not the labs will be used in the mornings be up to the instructor, department head, or whom? (This does not include the special labs which can be used only for a class or so each week.)
8. It is presumed that classes will continue to be offered in the evenings, even though there is no longer an evening program?
9. What will be the long-range development of the library? The basic idea now is for one central library, and land is being saved to expand it. Will the future policy be to decentralize as the College grows in size?
10. Isn't maximum flexibility of space going to be a large part of the answer?
11. How much consideration should be given to an instructor's request to have his classes as near his office as possible?
12. Shouldn't we try to get the answers to the questions that apply to East and West Engineering Buildings and the Old Library as soon as possible?
13. Who shall determine the size of classes, for instance in education?
14. Would Dr. Kennedy's suggestion to Miss Clewell that the Old Library be made into a Social Sciences Center for history, government, psychology, etc. be feasible? Such departments all have large classes, and such a move would leave the Administration Building for education and foreign languages.
15. Will anyone who wishes to do so be permitted to bring a car to the campus?
16. Would it be possible to tie the scholastic record of the students to car permits?
17. Would it be possible to determine who is eligible to live in the residence halls on the basis of scholastic records and a minimum number of hours?

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 138

February 13, 1962

A meeting of the Campus Planning Committee was held at 2 p.m. Tuesday, February 13, 1962, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. In addition Mr. Bill Crumley, Mr. Jack Roberts, Mr. R. L. Mason, Mr. Ray Downing and Mr. D. M. McElroy were present.

1886. Textile Engineering Building

Humidity and Temperature Control

Chairman Pennington asked Mr. Jack Roberts of Zumwalt and Vinther Engineers to outline the studies made by that firm relative to the project. Mr. Roberts explained that control of temperature and humidity in the Cotton Research Laboratories in the Textile Engineering Building was lost at any time the outside temperature was above 57°. He also added that the condition of 55% (+1½%) relative humidity would be very difficult to maintain at 75° (+2°) Fahrenheit temperature, but that a 55% relative humidity with a ± 5% tolerance would not be so difficult.

There are three rooms in the Research Laboratories involved in this problem - the picking room, carding room and spinning room. Mr. Roberts added that their studies of humidity and control were based on cubic footage in these rooms being reduced from the present cubic footage by lowering the ceiling by means of a suspended one-inch Fiberglas ceiling being installed at a level below the existing roof joists. This would reduce the air conditioning required by approximately ten tons.

Mr. Roberts stated that their studies indicated that approximately 50 tons of air conditioning at an estimated cost of \$35,000 would be required to provide the desired conditions in the picking, carding and spinning rooms. He stated further that approximately 35 tons of air conditioning equipment at an estimated cost of \$25,000 would be required to provide the desired conditions in the spinning and carding rooms, and that approximately 25 tons of air conditioning equipment at an estimated cost of \$18,000 would be required to provide the desired conditions in the spinning room only.

Mr. Crumley said that it was not necessary for humidity and temperature controls to be provided in the picking room. However, he did feel that it was essential in the spinning and carding rooms. The spinning room is the most vital one, but since the material used in the spinning room originates in the carding room, and since there is so much traffic between the two rooms, it seems most likely that control would be lost in the spinning room if it were not also provided in the carding room.

Mr. Roberts was requested to prepare a report summarizing the equipment for providing humidity and temperature controls in the spinning and carding rooms, and to provide an alternate plan for providing the same controls in the picking room as well. Mr. Roberts felt that this information could be made available by February 15, 1962.

Mr. Pennington, Mr. Urbanovsky and Mr. Roberts left the meeting at 3 p.m.

Mr. Ralph Davis and Mr. Benge Daniel entered the meeting at 3 p.m.

1887. Texas Tech PressAir Conditioning

Mr. Ralph Davis of Davis, Foster, Thorpe and Associates, project architects on the Physical Plant Building, made a report on their studies concerning the air conditioning of the Texas Tech Press. The size of the press building, the type of equipment used and the nature of the work in some areas do not make it practical for air conditioning the entire area. The studies of the project architects have been based on providing acceptable air conditioning in the bookbinding area, the offices, the camera room, the plate room and the stripping room, with spot cooling in the press and composing areas.

Mr. Davis estimated that the cost of air conditioning equipment would be approximately \$21,500, and that it would be necessary to spend \$3,000 or \$4,000 for ceiling and partition modification, providing a total cost of the project of approximately \$25,000.

Mr. Benge Daniel reviewed the preliminary studies of the architects and was of the opinion this would provide the necessary cooling.

It was agreed that the preliminary studies would be presented to the CPC for a recommendation to the Building Committee.

D. M. McElroy
Assistant Comptroller

The meeting adjourned at 4 p.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 139 February 15, 1962

A meeting of the Campus Planning Committee was held at 11 a.m. on Thursday, February 15, 1962, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. In addition Dean Gerald Thomas, Mr. R. L. Mason and Mr. D. M. McElroy were present.

1888. Killgore Research Center

After consideration, the CPC voted to recommend that the following architects be added to the list previously submitted for Board consideration:

M. Howard Ensign
John S. Ward, Jr.

1889. Other Items

Building Signs

Considered developments to date and agreed on system to be presented to the Campus and Building Committee.

1890. Relocation of Farm Facilities

Beef and Dairy Cattle Lot Paving and Grading (Frank Hodges, \$47,625)

The CPC voted to recommend that February 14, 1962, be established as the final acceptance date.

1891. Sewage Effluent

Bids were opened and read aloud at 2:30 p.m. on February 14, 1962, in Room 260 of the Administration Building in the presence of eighteen interested persons. A copy of the bid tabulation is attached to and made a part of the Minutes. (Attachment No. 386, page 1104)

The Clyde Construction Company was the low bidder on the base bid with a base proposal of \$69,649.33. The Clyde Construction Company was also the low bidder on the alternate base bid with a proposal of \$71,949.25. The alternate base bid provides for the installation of approximately 900 additional feet of pipe in order to reroute the pipeline in a manner that will avoid crossing an agricultural research field.

An additive alternate providing for the sealing of the reservoir was applicable to both the base and alternate base bids, and if the additive alternate was taken, the low bidder would be R. B. Hodgson and Company with a base bid of \$69,666.05 and an alternate base bid of \$72,285.55 with an additive alternate of \$3,709.22 which would provide a gross base bid of \$73,375.27, and a gross alternate base bid of \$75,994.77, whereas if Clyde Construction Company's additive alternate in the amount of \$4,565.20 was taken, it would provide for a gross base bid of \$74,214.53, or a gross alternate bid of \$76,514.45.

Mr. Smith of the firm Parkhill, Smith and Cooper stated that they would recommend either one of the two low bidders, as they had worked with them on various projects prior to this one.

1891. Sewage Effluent

Dean Thomas stated that the additive alternate bid provided that the contractor would disc into the soil of the reservoir Bentonite clay that would provide a seal to the surface and prevent the seepage of water into the soil during the time the reservoir was filling. Dean Thomas added that studies made by members of his staff indicated that it would be best for the College to decline this alternate. He stated that he believed that research directed toward the study of recharging of underground water tables from this reservoir would be of value and that the reservoir area in time may become partially saturated and the seepage loss reduced. Dean Thomas' letter is attached to and made a part of the Minutes. (Attachment No. 387, page 1105)

After consideration, the CPC voted to recommend the acceptance of the low alternate base bid of the Clyde Construction Company of Odessa, Texas, without the additive alternate, in the amount of \$71,949.25, the amount to be paid from Local Building Funds.

Dean Thomas left the meeting at 11:30 a.m.

1892. Texas Tech PressAir Conditioning

The CPC reviewed the report shown in Item No. 1887 of Meeting No. 138 and voted to recommend that the project architects be authorized to proceed with working plans and specifications and voted to further recommend that the Campus and Building Committee be authorized to receive bids and award a contract between meetings. The cost of this project is to be paid from the Tech Press Unappropriated Balances.

1893. Textile Engineering BuildingHumidity and Temperature Control

A report from Mr. Jack Roberts of Zumwalt and Vinther prepared in compliance with Item No. 1886 of CPC Meeting No. 138 was read and discussed. A copy of Mr. Roberts' letter is attached to and made a part of the Minutes. (Attachment No. 388, page 1106)

It was pointed out during the discussion that this project would put the Research Laboratories in position to handle revenue-producing contract work, and would increase the revenue of the Textile Research Laboratory. The CPC voted to recommend that the engineers be authorized to proceed with preparing working drawings and specifications to provide humidity and temperature controls in the spinning and carding rooms, that the Office of the Supervising Architect be authorized to prepare plans and specifications for the suspended ceiling and further voted to recommend that the Campus and Building Committee be authorized to act for the Board in receiving the bids and awarding the contract between meetings.

The CPC voted to recommend that payment for the project be made from the \$15,000 presently available from the Textile Research Laboratory, and that the difference this amount and the cost of the project be advanced from College funds, and that the College funds be reimbursed by the Textile Research Laboratory at the rate of \$5,000 per year.

D. M. McElroy
Assistant Comptroller

The meeting adjourned at 12:35 p.m.

PUMPS, PIPING AND STORAGE FOR
SEWAGE EFFLUENT

TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Bid Tabulation

February 14, 1962
2:30 p.m.

Alternate Base Bid provides for routing pipeline
around agricultural research field.
Additive Alternate provides for sealing of the reservoir.

| BIDDER | BID BASIS | BID | ADDITIVE ALTERNATE BID | TOTAL |
|--|--------------------|-------------|------------------------|-------------|
| Panhandle Construction Company P. O. Box 1500 Lubbock, Texas | Base Bid | \$72,776.20 | \$3,423.90 | \$76,200.10 |
| | Alternate Base Bid | \$75,112.50 | \$3,423.90 | \$78,536.40 |
| Hemphill Contracting Company 4317 32nd Street Lubbock, Texas | Base Bid | | | |
| | Alternate Base Bid | | | |
| R. B. Hodgson and Company P. O. Box 5136 Midland, Texas | Base Bid | \$69,666.05 | \$3,709.22 | \$73,375.27 |
| | Alternate Base Bid | \$72,285.55 | \$3,709.22 | \$75,994.77 |
| Clyde Construction Company P. O. Box 2123 Odessa, Texas | Base Bid | \$69,649.33 | \$4,565.20 | \$74,214.53 |
| | Alternate Base Bid | \$71,949.25 | \$4,565.20 | \$76,514.45 |
| M. B. McKee Engineering and Equipment Company 2205 Avenue E Lubbock, Texas | Base Bid | \$84,066.60 | \$2,853.25 | \$86,919.85 |
| | Alternate Base Bid | \$86,300.50 | \$2,853.25 | \$89,153.75 |
| R. Q. Davis, Inc. P. O. Box 3336 Austin 13, Texas | Base Bid | | | |
| | Alternate Base Bid | | | |
| Ramsey Enix Company, Inc. 207 N. Lincoln Amarillo, Texas | Base Bid | | | |
| | Alternate Base Bid | | | |

1104

Campus Planning Committee
Attachment No. 386
February 15, 1962
Item No. 1891

PUMPS, PIPING AND STORAGE FOR
SEWAGE EFFLUENT

TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Bid Tabulation

February 14, 1962
2:30 p.m.

Alternate Base Bid provides for routing pipeline.
around agricultural research field.
Additive Alternate provides for sealing of the reservoir.

| BIDDER | BID BASIS | BID | ADDITIVE ALTERNATE BID | TOTAL |
|--|--------------------|-------------|------------------------|-------------|
| Panhandle Construction Company P. O. Box 1500 Lubbock, Texas | Base Bid | \$72,776.20 | \$3,423.90 | \$76,200.10 |
| | Alternate Base Bid | \$75,112.50 | \$3,423.90 | \$78,536.40 |
| Hemphill Contracting Company 4317 32nd Street Lubbock, Texas | Base Bid | | | |
| | Alternate Base Bid | | | |
| R. B. Hodgson and Company P. O. Box 5136 Midland, Texas | Base Bid | \$69,666.05 | \$3,709.22 | \$73,375.27 |
| | Alternate Base Bid | \$72,285.55 | \$3,709.22 | \$75,994.77 |
| Clyde Construction Company P. O. Box 2123 Odessa, Texas | Base Bid | \$69,649.33 | \$4,565.20 | \$74,214.53 |
| | Alternate Base Bid | \$71,949.25 | \$4,565.20 | \$76,514.45 |
| M. B. McKee Engineering and Equipment Company 2205 Avenue E Lubbock, Texas | Base Bid | \$84,066.60 | \$2,853.25 | \$86,919.85 |
| | Alternate Base Bid | \$86,300.50 | \$2,853.25 | \$89,153.75 |
| R. Q. Davis, Inc. P. O. Box 3336 Austin 13, Texas | Base Bid | | | |
| | Alternate Base Bid | | | |
| Ramsey Enix Company, Inc. 207 N. Lincoln Amarillo Texas | Base Bid | | | |
| | Alternate Base Bid | | | |

Campus Planning Committee
Attachment No. 387
February 15, 1962
Item No. 1891

TEXAS TECHNOLOGICAL COLLEGE
School of Agriculture
Lubbock, Texas

OFFICE OF THE DEAN

February 15, 1962

Mr. M. L. Pennington, Chairman
Campus Planning Committee
Campus

Dear Mr. Pennington:

In order to collect additional data relating to the alternate bid for sealing the sewage effluent storage reservoir, Dr. W. L. Ulich has conducted water infiltration tests at the proposed site. Results of these tests are attached.

Test No. 1 showed an initial intake rate of 36.6 inches per hour, which tapered off to 10.2 inches per hour after nine and one-half (9 1/2) hours.

Test No. 2 showed an initial intake rate of 28.4 inches of water per hour and a rate of 8.9 inches per hour after an elapsed time of ten (10) hours.

Both tests were conducted with the standard concentric ring method using a constant 18-inch head of water. In order to reduce the effects of surface conditions or vegetation, both tests were conducted at a depth of eighteen (18) inches below the ground surface.

These data clearly indicate the desirability of providing a seal to reduce infiltration loss. However, from a research standpoint, these tests are of even more interest. Because of the research potential, I should like to recommend that the storage reservoir not be sealed at this time. We would like to conduct some additional studies on this matter. We may be able to gather valuable data on the water recharge situation prior to sealing. Also, it may be possible to utilize some of the soil (Randall Clay) from our existing lakes to seal this reservoir at a later date.

Our recommendation is that the alternate bids on sealing be rejected at the present time.

Sincerely yours,

/s/Gerald W. Thomas
Dean of Agriculture

GWT:cld(b)

cc: Dr. Ulich

Attachment

Campus Planning Committee
Attachment No. 388
February 15, 1962
Item No. 1893

Ross Zumwalt
P. N. Vinther
R. E. Miller
F. L. McFadden
J. T. Worley

ZUMWALT AND VINTHER
Consulting Engineers
501 Mercantile Dallas Building
Dallas 1, Texas
February 15, 1962

Jack F. Roberts
Resident Engineer
2109 Avenue Q
Lubbock, Texas

Mr. R. L. Mason
Supervising Engineer
Texas Technological College
Lubbock, Texas

Re: Textile Laboratory
Air Conditioning

Dear Sir:

In accordance with your request for an outline and estimate of the revisions to the Heating and Ventilating Systems and the addition of Refrigeration to accomplish complete Air Conditioning of certain of the Textile Laboratories, we submit the following:

We propose to obtain temperature control through a range of 70° to 80° F with a variation of approximately $\pm 1\frac{1}{2}$ °F. and humidity control through a range of 40% to 60% RH with a variation of $\pm 5\%$.

We plan to use the apparatus dew point method of humidity control through use of a sprayed coil dehumidifier to obtain 90% to 95% saturated air with refrigerated water in the cooling coil at outside temperatures exceeding 40° to 50°F. and with heated spray water at temperatures below those conditions.

Space temperatures would be maintained by reheating the air.

The air would be prefiltered with an automatic disposable roll type filter with 25% make up for ventilation when the refrigeration system was in use and with preheated and prefiltered 25% to 50% make up when outside air was used for cooling and/or dehumidifying. Positive exhaust will assure the make up and be interlocked with it in steps.

Existing equipment not used in the proposed plan would be removed and delivered to the College.

The existing controls, ducts, and outlets will be revised and reused; as well as the filter, exhaust fans, and the coils.

To remove existing equipment and install new, it appears the North Equipment Room wall will be removed and a louvre will cover the opening. Also an insulated suspended ceiling will be required. These changes in appearance will be coordinated with the College Architect.

Textile Laboratory
Air Conditioning

Page 2

The Refrigeration System would be all new with a single water chiller, compressor and air cooled condenser.

The estimated cost for the Mechanical and Electrical work to accomplish Air Conditioning of the Spinning and Carding Laboratories with separate air units is \$25,000. To add the Picking Laboratories would take at least \$10,000 additionally. This estimate is exclusive of the Architectural and Structural work and fees.

Yours very truly,

ZUMWALT AND VINTHER

/s/Jack F. Roberts
Resident Engineer

JFR:bv(b)

CC: Mr. Nolan E. Barrick
Mr. Ray Downing
Mr. Marshall L. Pennington

OK

PROPOSED AGENDA FOR THE JOINT MEETING OF THE CAMPUS AND BUILDING
COMMITTEE AND THE CAMPUS PLANNING COMMITTEE TO BE HELD AT
4:30 P.M. FEBRUARY 16, 1962, IN THE OFFICE OF THE PRESIDENT

1894. Chemical Engineering Building (Cain & Cain, \$326,003 - May 22, 1961)

OK Consider the recommendation of the CPC that forty (40) days at \$50 per day for a total of \$2,000 be withheld from the contractor for liquidated damages. (Meeting No. 137, February 9, 1962, Item 1867) This recommendation will give the contractor an additional time extension of nine (9) days from the date of the Work Order to the date the contract was signed.

1895. Killgore Research Center

Consider the recommendation of the CPC that architects for this project be considered in the following order:

1. ~~George~~ Short ^{OK} and Roven
2. Hucker and Parge
3. Rittenberry and Rittenberry
4. M. Howard Ensign
5. John S. Ward, Jr.

OK Consider the recommendation of the CPC that the architects do the preliminary work usually done by the College and that the fee be 6% rather than the usual 5%.

OK 1896. Library (affixed)
OK Other Items

Building Signs

Report from Mr. Urbanovsky on study developments.

Committee from past work with CPC.

1897. Psychology

Consider the recommendations of the CPC that architects for the project be considered in the following order:

1. Wyatt C. Hedrick
- OK — 2. Associated Architects and Engineers
3. Brasher and Goyette

1898. Relocation of Farm Facilities

Beef and Dairy Cattle Lot Paving and Grading (Frank Hodges, \$47,625)

OK Consider the recommendation of the CPC that February 14, 1962, be established as the final acceptance date.

1900

~~1899.~~ Science Building Addition (Carl E. Maxey, \$431,707
February 13, 1962)

OK

Consider contractor's request for six (6) days time extension.
(Copies of letters from the Project Architect and the Supervising Architect are attached to the Agenda.)

1901

1900. Sewage Effluent

Consider the recommendation of the CPC that the low alternate base bid without the additive alternate of Clyde Construction Company of Odessa, Texas, in the amount of \$71,949.25 be accepted.

source of funds - (local) - building funds

1902

1901. Texas Tech Press

Air Conditioning

Consider the recommendation of the CPC that the Project Architects be authorized to proceed with working drawings and plans and specifications and that the Campus and Building Committee be authorized to act for the Board in receiving bids and awarding of contracts between meetings.

1903

Textile Engineering Building

Humidity and Temperature Control

Consider the recommendation of the CPC that Zumwalt and Vinther, Engineers, be authorized to proceed with working drawings and specifications to provide humidity and temperature controls in the spinning and carding rooms, that the Office of the Supervising Architect be authorized to prepare plans and specifications for the suspended ceiling in these areas, that the Campus and Building Committee be authorized to act for the Board in receiving bids and awarding a contract between meetings, and that payment for the project be made from the \$15,000 presently available from the Textile Research Laboratory, and the difference between this amount and the project cost be advanced from College funds, and that the College funds be reimbursed by the Textile Research Laboratory at the rate of \$5,000 per year.

000 + fees
iling OK
estimate
\$5,000

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the
Supervising Architect

February 12, 1962

Mr. M. L. Pennington
Vice President and
Comptroller

Dear Mr. Pennington:

Re: Addition to Science Building

Attached hereto you will please find a file of correspondence relative to a request for an extension of time from Carl E. Maxey Co. covering January 9, 10, 11, 16, 22 and 23.

You will note that the architects recommended approval of this request due to the severe temperatures. We would concur with the recommendation of the architects.

Very truly yours,

/s/ Nolan E. Barrick

Nolan E. Barrick, A. I. A.
Supervising Architect

NEB:mc(b)

ASSOCIATED ARCHITECTS & ENGINEERS OF LUBBOCK
3134 Thirty Fourth Lubbock, Texas

Stiles, Roberts, Gee & Messersmith
SHerwood 4-8407

McMurtry & Craig
SHerwood 4-4342

Schmidt & Stuart
Porter 5-8881

9 February 1962

Mr. Nolan E. Barrick, A. I. A.
Supervising Architect
Texas Technological College
Lubbock, Texas

Re: Science Building Addition

Dear Mr. Barrick:

Transmitted herewith are three letters from Carl E. Maxey Co., requesting time extensions for January 9, 10, 11, 16, 22, and 23.

On all these days they were attempting to finish plastering on the second floor and the extreme cold prevented their mixing the material outside, and the lower floors of the building were too far along toward finishing to allow them to move inside.

On all these days the temperature was above 40 degrees for only $1\frac{1}{2}$ hours the 16th (between 12:00 Noon and 1:30) and one hour the 23rd (between 1:00 and 2:00 P.M.) and most of the time the temperature was well below freezing.

These requests were submitted in accordance with the General Conditions, and it is our recommendation that these extensions be granted.

Yours truly,

ASSOCIATED ARCHITECTS & ENGINEERS OF LUBBOCK

/s/ Calvin C. Craig, Jr.

Calvin C. Craig Jr., A. I. A.

CCC:sf(b)

Encls.: 3 Ltrs, Carl E. Maxey Co.

cc: Stiles, Roberts & Messersmith
Schmidt & Stuart

Telephone Porter 3-4694

CARL E. MAXEY CONSTRUCTION CO.

1627 College Avenue

P. O. Box 5302
North College Station

Lubbock, Texas

January 15, 1962

McMurtry & Craig
Architects-Engineers
Lubbock, Texas

Re: Addition to Science Building
Texas Technological College

Gentlemen:

With reference to the above project we respectfully request an extension of time of 3 days due to weather conditions that would not permit our working on January 9, 10, and 11.

We will appreciate your approval of this extension of time to our contract for reasons as stated above.

Very truly yours,

CARL E. MAXEY CONSTRUCTION CO.

/s/Tom G. McAbee

Tom G. McAbee

TGM:mw(b)

Telephone Porter 3-4694

CARL E. MAXEY CONSTRUCTION CO.

1627 College Avenue P. O. Box 5302
 North College Station

Lubbock, Texas

January 17, 1962

McMurtry & Craig
Architects-Engineers
3134 34th St.
Lubbock, Texas

Re: Addition to Science Building
Texas Technological College

Gentlemen:

With reference to the above project we respectfully request an extension of time of 1 day due to weather conditions that would not permit our working on January 16.

We will appreciate your approval of this extension of time to our contract for reasons stated above.

Very truly yours,

CARL E. MAXEY CONSTRUCTION CO.

/s/Tom G. McAbee

Tom G. McAbee

TGM:mw(b)

Telephone Porter 3-4694

CARL E. MAXEY CONSTRUCTION CO.

1627 College Avenue

P. O. Box 5302
North College Station

Lubbock, Texas

January 25, 1962

McMurtry & Craig
Architects-Engineers
3134 34th Street
Lubbock, Texas

Re: Addition to Science Building
Texas Technological College

Gentlemen:

With reference to the above project we respectfully request an extension of time of 2 days due to weather conditions that would not permit our working on January 22 and 23.

We will appreciate your approval of this extension of time to our contract for reasons as stated above.

Very truly yours,

CARL E. MAXEY CONSTRUCTION CO.

/s/Tom G. McAbee

Tom G. McAbee

TGM:mw(b)

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 140 February 16, 1962

A joint meeting of the Campus and Building Committee and Campus Planning Committee was held on Friday, February 16, 1962, at 4:30 p.m. in the Office of the President.

Members of the Campus and Building Committee present were Mr. Harold Hinn, Chairman, and Mr. Wilmer Smith. Other Board members present were Mr. C. I. Wall, Mr. Alvin R. Allison, Mr. Floyd Wooldridge, Mr. Manuel DeBusk, Mr. J. Edd McLaughlin and Mr. James L. Lindsey.

Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present from the College were Dr. R. C. Goodwin, Dr. W. M. Pearce, Mr. J. Roy Wells, Mr. D. M. McElroy, Mr. John G. Taylor and Mr. Robert B. Price.

In order that the results of the meeting of the Board of Directors may be included in the CPC Minutes for record purposes, the action taken by the Board at the meeting on February 17, 1962, will follow that of the Campus and Building Committee for each item.

1894. Chemical Engineering Building (Cain and Cain, \$326,003 - May 22, 1961)

Approved an additional time extension of nine (9) days from the date of the Work Order to the date the contract was signed and the withholding of forty (40) days at \$50 per day for a total of \$2,000 from the contractor for liquidated damages.

(The Board of Directors approved.)

1895. Killgore Research Center

Approved the employment of George W. Short and Associates of Amarillo as architects for the project at a fee of 6%.

(The Board of Directors approved.)

1896. Library (J. M. Odom Construction Company - \$2,146,379)

Approved exploration by the CPC for a competent interior decorator to assist with the furniture and equipment to go in the Garden Room, with the understanding that the CPC will report to the Campus and Building Committee before any action is taken. An over-all estimate of the cost is to be prepared and reported also.

(The Board of Directors approved.)

1897. Other Items

Building Signs

Considered the report from Mr. Urbanovsky on developments to date and the recommendations of the CPC, and recommended that a Committee from the Board be appointed to work with the CPC.

(The Board of Directors approved.)

1898. Psychology

Approved the employment of the Associated Architects and Engineers of Lubbock as architects at a fee of 5%.

(The Board of Directors approved.)

1899. Relocation of Farm Facilities

Beef and Dairy Cattle Lot Paving and Grading (Frank Hodges, \$47,625)

Approved the final acceptance date of February 14, 1962.

(The Board of Directors approved.)

1900. Science Building Addition (Carl E. Maxey, \$431,707 - February 13, 1962)

Approved the contractor's request for six (6) days time extension.

(The Board of Directors approved.)

1901. Sewage Effluent

Accepted the low alternate base bid without the additive alternate of Clyde Construction Company of Odessa, Texas, in the amount of \$71,949.25 with payment to be made from Building Funds.

(The Board of Directors approved.)

1902. Texas Tech PressAir Conditioning

Authorized the Project Architects to proceed with working drawings and plans and specifications, and recommended that the Campus and Building Committee be authorized to act for the Board in receiving bids and the awarding of contracts between meetings. The estimated amount is \$25,000, to be paid from Texas Tech Press Unappropriated Balance.

(The Board of Directors approved.)

1903. Textile Engineering BuildingHumidity and Temperature Control

Authorized Zumwalt and Vinther, Project Engineers, to proceed with working drawings and specifications to provide humidity and temperature controls in the spinning and carding rooms, and the Supervising Architect to prepare plans and specifications for the suspended ceiling in these areas, and recommended that the Campus and Building Committee be authorized to act for the Board in receiving bids and awarding contracts between meetings. Of the total estimated cost of \$35,000 \$15,000 is presently available from the Textile Research Laboratory, and the difference between the amount and the project cost is to be advanced from College funds with reimbursement by the Textile Research Laboratory at the rate of \$5,000 per year.

(The Board of Directors approved.)

M. L. Pennington
Chairman

The meeting adjourned at 5:55 p.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 141

March 8, 1962

A meeting of the Campus Planning Committee was held at 10 a.m. on Thursday, March 8, 1962, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy and Mr. Robert L. Mason were present.

1904. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Mr. Barrick, the Minutes of Meetings Nos. 137, 138, 139 and 140 were approved.

1905. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meetings Nos. 136 on February 11, 1962, 137 on February 14, 1962 and 140 on February 20, 1962.

1906. Chemical Engineering Building (Cain & Cain, \$326,003 - May 22, 1961)

A. Equipment (W. C. Hixson Company - \$15,954.20)

The date of the contract award was October 26, 1961, with the delivery date from 120 to 150 days. The contractor has been quite uncooperative during the entire period of attempts to get information. The President finally called Mr. Barrick today and reported that they plan to make shipment the last of April. The President has been notified that the College is extremely disappointed.

Consideration was given as to whether or not it would be possible to cancel the contract and rebid. However, due to the time required for the fabrication of the equipment, W. C. Hixson could make delivery much sooner than the second low bidder if the contract were to be canceled. Under the circumstances, the CPC felt that it would be better to stay after Hixson in an attempt to expedite delivery.

B. Time Extension

The Chairman reported that he is notifying Cain & Cain today of the Board's action at the last meeting on the time extension and that the sum of \$2,000 is being withheld from payment for liquidated damages due to the delay in completion, and the remaining \$1,000 will be sent to them.

1907. Classroom-Office Building

Mr. Duncan has yet to complete the final few items, although he has made repeated promises to do so.

1908. East Engineering Building (Appropriation 1961-62, \$6,650
1962-63, \$8,000)

The Supervising Architect's staff has made cost estimates in the total amount of \$26,135 on the work recommended. As the amount substantially exceeds that available, Mr. McElroy was requested to work with the departments to determine the priority order for work to come within the money available and to report to the CPC not later than March 22, 1962.

1909. HousingA. Married Student Housing

Mr. Killgore is still seeking finances for the project.

B. Dormitory and Dining Facilities for Women (Project: CH-Tex. 150(D)
(H. A. Lott, Inc. - \$2,764,546) (August 1, 1963)Construction Progress

Progress is still very good. Concrete is being poured for the footings and the basement.

C. Renovation of West Hall

Mr. Brown has been notified that he will be unable to refinish the doors until the students leave for the summer. He has been requested to let the College know if he will make arrangements to complete the doors at that time. The sum of \$3,500 is still being withheld to assure completion of the project.

D. Long-range Plan

A copy of Dr. Pearce's letter of February 28, 1962 setting out the Deans' answers to some of the questions is attached to and made a part of the Minutes. (Attachment No. 389, page 1118)

The CPC expressed its gratitude to the Council of Deans for the answers to the questions.

It was agreed that it will be necessary for the CPC to provide the impetus for a long-range plan which must be started promptly and vigorously and constructively pursued. The Chairman is to talk to the President about possible ways to proceed, with a request being made to secure additional man power.

It was agreed that it will be necessary to up-date the scale model of the campus and begin to accumulate statistics as rapidly as possible.

E. Renovation of Sneed Hall

Sneed Hall is the dormitory most needing renovation during the coming summer. Mr. Barrick and Mrs. Bates are requested to prepare a list of the items which need to be done and to present the list to the CPC before the next meeting.

Bledsoe Hall will be used to house men students during the summer session of 1962.

1910. Journalism Building

Public Information will remain in the Journalism Building for the time being.

The Accrediting Association has lessened the demands for such items as advertising labs and it can be excluded from the plans for remodeling.

If there is a daily Toreador, it will be printed at the Texas Tech Press.

Mr. Barrick feels that he now has sufficient information to complete the preliminary program for the project. He will present his studies to the CPC at the earliest possible date.

1911. Killgore Beef Cattle Center

The report of the general meeting of March 3, 1962, which was held in an attempt to get the project under way, was discussed and approved. The report is attached to and made a part of the Minutes. (Attachment No. 390, page 1119)

1912. Library (J. M. Odom Construction Company - \$2,146,379)

(Mr. Janeway entered the meeting)

A. Construction Progress

The contractor seems to be pursuing about as many different phases of the work as possible at this time. The architects' representative has been requested to check to see if it would be feasible to put more people on the job.

B. Completion Date

When Mr. Pitts was last on the campus, he estimated that an additional two and one-half ($2\frac{1}{2}$) months would be required for completion. It is anticipated that the completion date will be May 1, 1962.

C. Interior Decorator

After consideration, the CPC voted to recommend the following priority list:

1. Evans-Walsch, Inc. - Houston
2. The Furniture Galleries - Amarillo
3. Mr. Buster's Inc. - Dallas

It was agreed that Mr. Barrick would develop the program with Mr. Pitts and then contact Mr. Evans for an expression of interest and his proposed fee. Mr. Barrick is to check as soon as possible and the information is to be conveyed to the CPC. If the CPC approves, the Chairman is to call the Campus and Building Committee for approval.

D. Moving

Mr. Janeway reported that he would like to leave about 60,000 volumes in the Old Library and that he had discussed the need to do so with Dr. Conner. The volumes are not used a great deal but must be available for limited graduate and faculty use. He was of the opinion that the books could be made available under the control of the Southwest Collection. He said that since the third floor of the New Library is not to be completed now, he will have less shelving space for catalogued books in the New Library than in the Old. He now has 13,000 feet of close order shelving. He will need to shelve about 250,000 catalogued books in the New Library.

The proposal for books to remain in the Old Library was discussed at length as all plans for remodeling have been made on the assumption that there would be none.

Mr. Janeway thought that the books would require two and one-half stack levels in the Old Library and that there would be enough remaining for the Southwest Collection. He thought that it might be possible to crowd the books which he would like to leave into two levels if necessary. He stated that he would prefer not to move the books to the New Library and then have to move them again for the area to be finished at some future date.

1912. Library (J. M. Odom Construction Company - \$2,146,379)D. Moving

It was thought that the ROTC Units would need two levels of the stacks for storage in the Old Library and that there would be insufficient space remaining for the operations of the Southwest Collection and the ROTC Units if two or two and one-half levels were retained by the Library.

As the books in question will have limited use, Mr. Janeway thought the suggestion of using one end of the basement would be satisfactory if the light intensity in the unfinished portion could be increased. He would eventually move the books to the third floor of the New Library anyway.

It was agreed that a study will be made to determine the feasibility of increasing the light intensity in order to use basement space for the books.

It was agreed that Mr. Janeway and Mr. McElroy will develop the mechanics to make the actual move from the Old to the New Library.

Mr. Urbanovsky raised a question pertaining to the need for planters in the loggia. It was agreed that no decision could be made until the services of a decorator are obtained and Mr. Barrick has had a chance to discuss the program with Mr. Pitts.

E. Carrels (32 - \$16,000)

There are still some items to check with Mr. Pitts. As soon as the information is received and assimilated, bids will be taken.

(Mr. Janeway left the meeting.)

1913. Library, Old (1961-62, \$50,375; 1962-63, \$33,375)A. Southwest Collection

Dr. Connor's letters of February 27, 1962, which are attached to and made a part of the Minutes (Attachment No. 391, page 1120) were discussed at length.

Mr. Barrick had been requested to take cognizance of the letter pertaining to the Reaugh Collection and to study paragraph two of the second letter on "Shelf Adapted Storage Units." Mr. Barrick said that he will check the pictures to see what might be done with them and that it would be possible to strip out the shelves in the stacks to fit the containers used by the Southwest Collection.

Mr. McElroy had been requested to study paragraph three on "Furniture and Equipment." He reported that it will be necessary for the Southwest Collection to have furniture, as almost all it is now using belongs to the Library, and that he will make recommendations at a future time.

Mr. Mason had been requested to study paragraph five, "Air Conditioning." He reported that Dr. Connor is correct in his statements on the preservation of the books and that the basic equipment is installed. The ducts and fans have been used all through the years for heating. It would be impossible to air condition the building with ground water as stated. The original design was to have refrigerated cooling equipment to go with that installed. He made reference to his letter of December 22, 1961, which is attached to and made a part of the Minutes. (Attachment No. 392, page 1121)

1913. Library, Old (1961-62, \$50,375; 1962-63, \$33,375)

A. Southwest Collection

He stated that the use of the Old Library demands very careful consideration at the time of renovation. It would take a sizable portion of the money available to air condition the building as it would cost from \$40,000 to \$50,000. The present ducts do not run to the tower offices or the east end of the building. The four separate duct systems run to the stacks, top floor, second floor, and basement, east end.

It would be relatively inexpensive to provide refrigerated air conditioning to the areas now being served by the fans and ducts. There could be a good many solutions on how to handle air conditioning if it is to be included. It would be wise to avoid having second-class space in the building if it is air conditioned.

He said there will be a great deal of use of the facilities for twelve months each year and he felt that we should proceed with air conditioning from the outset if possible.

B. Remodeling

Dr. Pearce's letter of February 12, 1962, to President Goodwin was discussed and with Dr. Pearce's consent, is attached to and made a part of the Minutes. (Attachment No. 393, page 1122)

The letter contains the Deans' summary of the needs for large classrooms and the Library may fulfill some of the needs.

C. Remodeling Plans Submitted by Mr. Barrick at the Last Meeting

It was agreed that it will be necessary to have a separate meeting of the CPC in order to study the plans without distractions.

1914. Music Building

Additional Need

The report from Dr. Hemmle and Mr. Felty on the needs has yet to arrive.

1915. Other Items

A. Biology

The Chairman reported that Dr. Tinkle has requested eight rooms with a total of approximately 1,500 square feet of floor space in order to construct artificial environments for his research projects in lizards. Almost any space will be acceptable.

The CPC discussed all imaginable places. There might be space in the Quonset Hut at Textile Engineering, the old Bull Barn or the Dairy Barn. There is a need for space for a period of five years.

In keeping with his assigned duties on space, Mr. McElroy is to check out all possibilities and let Dr. Tinkle know the results.

B. Geology Department

Dr. Wade's request for changes in the usage of space allocated to Geology was referred to Miss Clewell and Mr. McElroy, as it seemed to come under their jurisdiction for space assignment and usage. (Attachment No. 394, page 1123)

C. Senior Class Gift (Lights on Towers of Administration Building)

It was the consensus that the lights on the east tower are very good. The only suggestion was that a cover be installed over the larger lights to cut down the side glare. It was agreed that the same installation should be made on the west tower. The CPC commended Mr. Downing and Miss Maloy for developing the design and the installation of the lights.

1916. PsychologyA. Architects' Contract

Mr. Barrick reported that the architects' contract is being typed at the moment.

B. Site

All possible sites on the campus were discussed extensively with the two most likely sites being between the New Women's Dormitory and the New Library or behind the Science Addition. It was agreed that if the first site mentioned were to be used, there would have to be sufficient mass to justify it and it would probably require facilities for Speech to be in the same area.

It was agreed that a recommendation for a site will be made by next Thursday.

C. Development of Plans

As soon as the site is set, the program will be defined and given to the architects.

1917. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)1. Dairy Facilities

- a) Metal Buildings (Feed Barn, Calf Barn and Hay Storage)
(Stout Steel Builders - \$40,260 - 90 Days)

Final Acceptance

The CPC voted to recommend an acceptance date of February 23, 1962.

The braces have been removed from the south side of the building in order to accommodate the installation of the pens, and the area is now available to the Department for pen construction.

- b) Fencing (\$3,449)

No change

- c) Water Troughs (\$400)

Mr. McElroy reported that the troughs are on hand but have not been installed.

- d) Milking Parlor (C. M. Pharr, \$40,800 - September 24, 1961)

Mr. Barrick reported that the City Health Department has granted approval for bush hammering the floors in the milking lane and instructed the College to proceed.

2. Beef Cattle Facilities

- a) Metal Buildings (Stout Steel Builders, \$5,861 - 90 Days)

Final Acceptance

The CPC voted to recommend the final acceptance date of February 23, 1962.

- b) Scales and Housing (\$2,550)

Mr. McElroy reported that the scales are installed but the housing is not. He thought that it would be well for the Building Maintenance Department to construct the house if it is possible.

1917. Relocation of Farm FacilitiesA. Livestock Facilities (Including Poultry)3. Poultry Facilities (Stout Steel Builders - \$20,673 - 90 Days)a) Final Acceptance

The CPC voted to recommend the date of February 23, 1962.

b) Equipment

Mr. McElroy reported that it is on hand and to be assembled by the Department. The CPC is finished with the item.

4. Poultry Facilities, Partitions and Mechanical Work for Metal Buildings (Tatum and Gailey - \$13,930)Final Acceptance

The CPC voted to recommend the final acceptance date of February 23, 1962.

1918. Science Building (Carl E. Maxey - \$431,707 - February 13, 1962)A. Final Acceptance

The CPC voted to recommend the final acceptance date of February 22, 1962. The original date of completion was February 13, 1962. The contractor has requested and been granted six (6) additional days which would make the adjusted completion date February 19, 1962. As a result, three (3) days liquidated damages at \$50 per day will be withheld.

Final payment is subject to satisfactory arrangements being made for the installation of the equipment as Hamilton Manufacturing Company has yet to deliver on its contract and it is not reasonable to force the contractor to return to install the items when delivered.

B. Furniture and Millwork (Hamilton Manufacturing Company - \$44,255)
(June 7, 1962)

Mr. Barrick reported that unhappy results are being experienced in attempting to get delivery. Delivery was originally promised 180 days after December 9, 1961 but the manufacturer now promises it on July 2, 1962.

C. Classroom, Laboratory and Office Equipment (\$42,336)

Mr. McElroy reported that 90 per cent of the items have been delivered or have been shipped. The remaining 10 per cent will require approximately another thirty days for manufacture.

D. Open House and Dedication

It was agreed to ask Dr. Henry Thomas to arrange for the Open House and Dedication with Mr. Adrian Vaughan. The groundbreaking ceremonies for the project were unusually good.

1919. Sewage Effluent (Clyde Construction Company - \$71,949.25 - May 1, 1962)

The contractor started the job on March 6, 1962.

1920. Speech

In an attempt to make use of the most advantageous site for Psychology and Speech, it was agreed to consider Speech on the same site with Psychology if the area between the New Women's Dormitory and the New Library is to be used in order to provide sufficient mass. It was thought that it would be well to consider the clinical and auditorium needs for Speech at the site and to look elsewhere for other space.

1921. Student Union (V and N Construction Company - \$817,794)A. Final Acceptance Date

The Committee voted to recommend a final acceptance date of February 23, 1962.

Dean Allen was notified on the morning of March 9, 1962 of the acceptance and told that the facilities are now available for use.

There are two panels of terrazzo flooring which must be replaced in the main ballroom. However, the contractor will make the correction during the spring recess.

B. Kitchen Equipment (Fort Worth Fountain and Hotel Supply - \$51,568)

Mr. Barrick reported that after numerous promises and delays, the first shipment arrived last Friday. The items the College was willing to accept were nicely fabricated. However, approximately one-half was rejected. Mr. Forrester, the owner, has promised to rebuild everything to our satisfaction and hopes to get it back this weekend. There is a liquidated damage clause, and the work was scheduled to have been done on February 1, 1962.

The equipment which the Company could buy without having to fabricate it has been here for some time.

C. Furniture and Equipment (\$83,080)

Mr. McElroy reported that 85 per cent of the material has been delivered and that he will do everything possible to have all equipment on hand by the official opening date.

D. Faculty Dining Room Furniture and Equipment
(Decorators Studio and Thomas Brothers Company - \$15,633.18)

Mr. McElroy reported that all of the equipment is here with the exception of the carpeting. Delivery of the carpeting has been promised on April 1, 1962. The CPC is disappointed that the carpet delivery could not have been made on schedule, and efforts will be made to expedite delivery as much as possible.

The other equipment is stored in a downtown warehouse and will be delivered as soon as the carpet is in place.

E. Ex-Students Office Furniture (\$2,500)

Mr. McElroy reported that it will be a month before all the equipment is in, but he has been able to borrow enough furniture for the office to operate.

Mr. James can move when he is ready.

1922. Texas Tech PressAir Conditioning

Bids were opened and read aloud by Mr. Robert L. Mason in Room 253, East Engineering Building, at 2 p.m. on Thursday, March 8, 1962, in the presence of twenty-three interested persons. A copy of the bid tabulation is attached to and made a part of the Minutes. (Attachment No. 395, page 1124)

After consideration, the CPC voted to recommend a contract award to P & C Mechanical Contractors, the low bidders, in the amount of \$22,765. The Chairman is to poll the Building Committee for approval of the award. Mr. Mason will prepare the contract.

1923. Textile Engineering Building Air Conditioning

Mr. Mason reported that Zumwalt and Vinther will release the plans and specifications for bids around March 15, 1962.

1924. West Engineering Building

Mr. Barrick agreed to have the plans and specifications prepared along the lines originally planned. The installation will be made during the summer.

M. L. Pennington
Chairman

The meeting adjourned at 5:45 p.m.

Campus Planning Committee
Attachment No. 389
March 8, 1962
Item No. 1909D

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the President

February 28, 1962

Mr. M. L. Pennington
Vice President and Comptroller
Campus

Dear Mr. Pennington:

Reference is made to Attachment No. 385, Minutes, Meeting No. 137, Campus Planning Committee, February 9, 1962; in this attachment headed "Long-Range Plan" some questions were posed which the academic deans believe can be answered, others on which they have commented.

Item 6. In time it may be necessary to start classes at 7:30 A.M. and schedule classes every hour on the half-hour continuously until 9:30 P.M. There was no serious objection to this among the deans. The advantage, where traffic is concerned, is obvious.

Item 7. The decision as to the scheduling of labs has been a responsibility of the department head. The request that departments schedule their offerings on a 60-40 (morning-afternoon) ratio has been applied to all classes, with no distinction between labs and lecture sections. Certainly not all departments have abided by this policy. Of necessity, a larger number of laboratory sections are now scheduled in the morning than in previous years.

Item 8. No doubt a number of classes will be offered in the evening hours; how this number will compare with the numbers in the current and prior years remains to be seen.

Perhaps one answer to our space and scheduling problems is the creation of a "scheduling office." Under this system, the departments would only submit the courses to be offered each semester; the scheduling office would determine the time and place for each class to be taught.

Item 11. Naturally an instructor likes to have his classes in rooms convenient to his office. However, more important is the need to have the faculty offices of a department near one another and near the department head. The latter is the most important communication link between the administration and the faculty and for control and communications, particularly in large departments, proximity of departmental offices to one another is essential.

I do not believe the instructor's convenience in getting to a classroom is the over-riding consideration in assigning rooms; the size of the class, the size of the classroom, the equipment in the classroom (visual aids, etc.) are factors in determining classroom assignments.

Item 13. The department head customarily determines the maximum enrollment in classes in his department. At times the size of the assigned classroom will limit the enrollment.

Mr. M. L. Pennington
Page 2
February 28, 1962

Item 14. Concerning the use of the Old Library Building, it is my belief that the College is under a firm obligation to the departments of Air Science and Military Science to provide office and related space in a permanent building for these two departments. Within the past ten years the activities of the ROTC people have become increasingly important in campus life; in addition to their main function, the preparation of male students for reserve commissions, their participation in parades, at athletic events, and the inclusion of coeds in their program, all have touched the lives of many students. Some 1400 students are involved annually in Military Science and Air Science activities, and the morale of the ROTC staffs contributes substantially to the well-being of the College community. Since these people have a definite feeling that the College is committed to improving their facilities, it is my opinion that they should be allocated space in a permanent building. As much as I would like to agree with Dean Kennedy in his suggestion regarding the placing of the departments of government, history and sociology in the Old Library, I feel that his proposal should be met only after the ROTC people are taken care of in some permanent building.

You will judge that the comments on Item 14 reflect my own opinion; the other items listed above were discussed by the academic deans.

Sincerely yours,

/s/W. M. Pearce

W. M. Pearce
Academic Vice President

WMP:r

cc: Dr. R. C. Goodwin

Campus Planning Committee
Attachment No. 390
March 8, 1962
Item No. 1911

KILLGORE BEEF CATTLE CENTER
TEXAS TECHNOLOGICAL COLLEGE RESEARCH FARM
Pantex, Texas

A meeting was held on Saturday morning, March 3, 1962, at 10 a.m. between Dean Gerald W. Thomas, Mr. E. J. Urbanovsky and M. L. Pennington.

The purpose of the meeting was to discuss in general the steps to get the project under way.

Topography

A topographical survey of the area is needed. However, it was agreed to see if Mr. J. P. Smith has one before engaging engineers to make a survey. Dean Thomas is to check with Mr. Smith on his next trip to Texas Tech College Research Farm.

Architects

It was agreed that the first step with the architects would be to get them on the ground at the Research Farm, first, in order that they may become familiar with the area and the ideas of the project. As soon as they are a bit familiar with the area and the scope, the architects are to be requested to visit the project in Foraker, Oklahoma. Mr. Urbanovsky mentioned that it would be advisable to "walk" through the plans to be sure that the facilities will provide the services desired.

It was agreed to keep Mr. J. P. Smith familiar with the development of the project in order to provide continuity.

It was agreed that Dean Thomas will prepare a written outline of the program.

Steps involved which require Board action:

1. Site selection
2. Preliminary plans and specifications
3. Final plans and specifications (working drawings)
4. Advertising for bids, bid opening and recommendation for contract award
5. Preliminary inspection for acceptance and final inspection for acceptance, then final acceptance

It was agreed that any extras or credits should clear through the Business Office in the same manner as that for other projects.

It was felt advisable for the College to handle the roads, fencing, parking and landscaping and not include the items in the architects' contract. The items can be handled by College personnel and save the fee. Such items on the campus proper are handled in the manner suggested.

Utilities

It was agreed that an item of first importance would be to see if the project can be tied to the sewer line running from Amarillo Air Base to the sewage disposal lake. On other utilities, it was thought that it would be possible to stub out five feet from the project and handle the utility connections in the same manner as those on the campus. It was agreed that it would be necessary to check with Mr. R. L. Mason, Supervising Engineer, to see if his schedule will permit him to handle the utility connections.

It was agreed to see if the electrical and gas suppliers will run the required lines to the project. Perhaps the sewer line will be the main problem.

Financial Budget

It was agreed that it would be well to tell the architects, as soon as possible, the amount of money available for the construction of the project, including the pens, in order for them to design the facilities to fit the budget. It will be some time yet before enough information is available on utilities, fences, roads and parking. It was agreed to delay the statement to the architects until a meeting later in the month.

Time Schedule

Generally the major steps are tied to Board meetings, and the following schedule is suggested:

- May 28, 1962 - Site recommendation and presentation of preliminary plans and specifications and estimate of cost to the Board of Directors
- August 25, 1962 - Presentation of final plans and specifications to the Board
- October 26, 1962 - Recommendation for contract award to the Board

It was agreed that a meeting should be held in Amarillo with the architects after they return from Foraker. It was thought that it would be well to ask Mr. Barrick, Mr. Mason, Dr. Durham and Dr. Ulich in addition to the three present to go to Amarillo to discuss a site recommendation and general project development with the architects. It was agreed that the meeting should be held during the last week in March if possible. It is hoped that Mr. Weymouth can attend the meeting.

It was agreed to request Dean Thomas to serve as coordinator as he is often at the Research Farm and is in close contact with Mr. Smith.

It was agreed that the bid opening should be held in Amarillo, if possible.

As the only information available now on the project is the brochure, it was agreed that this discussion should be included in the CPC Minutes in order that it may be of record.

M. L. Pennington
Vice President and
Comptroller

Campus Planning Committee
Attachment No. 391
March 8, 1962
Item No. 1913A

S O U T H W E S T C O L L E C T I O N

Texas Technological College
Lubbock, Texas

February 27, 1962

Mr. Marshall L. Pennington
Vice President and Comptroller
Texas Technological College
Campus

Dear Marshall:

This letter is in regard to the Reaugh Collection of Western Art, which is a group of two hundred small, framed water colors and pastels given to the College by the trustees of the Reaugh Estate. I'm sure you recall the details (and complications) of the donation; the present problem concerns the hanging of these pictures. At the time they were donated, a tentative plan was evolved to hang the pictures in the Southwest Collection quarters in the old library building after the move.

As we envisioned it at that time, and I see no objection to it now, the pictures would be hung along the new partition wall to be built along the center of the main foyer. Since the pictures are small and might easily be stolen, the question arises whether a special type of hanging device should be designed. Also, when the building is being renovated and the partition designed, it might be practical to plan it, structurally and decoratively, to fit the pictures to be hung. I have no idea how elaborate a set-up the administration would want for these pictures, and I have no recommendation on the matter. We could simply drive some nails in the wall and hang 'em with piano wire. They are nice little pictures and a quite attractive permanent display could be made of them if the College desired.

Sincerely yours,

/s/ Ike

Seymour V. Connor
Director

SVC:mdw(g)
cc: Dr. R. C. Goodwin
Mr. Ray Janeway

SOUTHWEST COLLECTION

Texas Technological College

Lubbock, Texas

February 27, 1962

Mr. Marshall L. Pennington
Vice President and Comptroller
Texas Technological College
Campus

Dear Marshall:

Pursuant to our recent conversation, this letter is supplemental to my budget request for fiscal 1962-63 and covers the major cost items that will be involved in our move to new quarters in the old library building.

1. Actual Physical Move.

Sylvan Dunn and I can handle the actual moving of the Collection's material in about two weeks if we can borrow a vehicle from the Museum or some other department and if we can have the help of four laborers. I am therefore estimating this cost at \$1.00 per hour for 320 hours (4 men for 2 weeks) . . . \$320.00

2. Shelf Adapted Storage Units.

All of our current bulk storage utilizes large "banker's boxes" about the size of an ordinary file drawer and "newspaper boxes" about the size of a newspaper opened out. The wooden shelves in our storerooms were built to fit this size unit. The shelves in the library measure (inside) $34 \frac{3}{4}$ " x 9" with a usable dimension of $32 \frac{3}{4}$ " x 10", the dimension between shelves being adjustable. By placing two library shelves back-to-back, we can fit one 16" x 26" "banker's box" in the 20" x $32 \frac{3}{4}$ " double shelf. This wastes approximately one-half of the shelf space.

For this and for a number of other reasons (not the least of which is the weight of the large boxes), it is obvious that we must make a shift in the size of our basic storage unit.

Several library supply companies manufacture "documents" boxes of dimensions that would fit the shelf space. Two basic sizes could be utilized, the small size fitting four to a shelf, the large size, two to a shelf.

The average price of these documents boxes \$0.75 each (present state contractor gets \$2.45 each). At a rough estimate, based on the number of shelves available on three levels of the stacks (\$3.00 per shelf, 6 shelves per section, 111 sections per floor), it would cost approximately \$6,000 to outfit all of the Southwest Collection's stacks with document cases.

However, we propose to hold the equivalent of one stack level for newspaper and over-size storage, and to spread the conversion to documents cases over a three-year period on the other two levels. Thus, I have included in my budget request proper for 1962-63 one-third of the amount needed to outfit two levels and will include the other two-thirds in subsequent requests. As you suggested, I am including the justification for this item in this letter as it is basically a part of the cost of moving. \$1350

3. Furniture and Equipment.

When the Southwest Collection was established in 1955 it was housed in one room of the Museum Building, and the basic office furniture and equipment was supplied by the Museum. As the Collection expanded, we scrounged additional desks, tables, chairs, etc., from the Museum. When we move to new quarters, we will be almost totally without furniture. The following is a list of our minimum needs with an approximate new price for each. Actually, however, we would prefer used furniture to new for most items, especially if we could get the work table tops covered with desk-top linoleum or vinyl. Mr. Janeway says that the Library can leave behind about 100 straight chairs, a number of tables, and a few desks, but it is not possible at this time to specify particular items. Also the Library will leave for our use several 15-tray sections of card catalog files which we desperately need.

| <u>Tables</u> | <u>Approximate New Prices</u> | |
|---|-----------------------------------|----------|
| * 2 large reading-seminar tables | \$150.00 each | \$300.00 |
| 9 3'x5' plain, simple study tables (no drawers) (6 for student use, 2 for sorting tables, 1 for manuscript and book repair) | 32.50 each | 292.50 |
| 5 3'x5' two-drawer work and cataloging tables (3 for staff use, 2 for cataloging) | 35.00 each | 175.00 |
| 1 microfilm reader table | 45.00 | 45.00 |
| 1 equipment table and cabinet for Verifax machine | 160.00 | 160.00 |
| 2 large sorting tables (4'x12' or equivalent) | 150.00 each | 300.00 |
| 1 4'x6' plain table for map use | 75.00 | 75.00 |

| <u>Chairs</u> | <u>Approximate New Price</u> | |
|--|----------------------------------|----------|
| * 3 comfortable visitors chairs | \$ 45.00 each | \$135.00 |
| 24 plain straight chairs for carrels and study tables and work tables | 10.00 each | 240.00 |
| <u>Desks</u> | | |
| * 2 double-pedestal executive desks (Dunn & Connor) | 200.00 each | 400.00 |
| * 1 double-pedestal, drop center, typing desk (Mrs. Wilson) | 250.00 | 250.00 |
| 2 single pedestal flat top desks (clerical and part-time) | 125.00 | 250.00 |
| <u>Cabinets</u> | | |
| 2 metal equipment and supply cabinets (one for pamphlet binding, book and manuscript repair; the other for secretarial and office supplies) | 175.00 | 350.00 |
| (Not necessary, but useful) | | |
| * 1 glass-door, locked book cabinet for rare books | 160.00 | |
| 1 or 2 glass top display tables for document display and Southwest Collection Memorial Book | | |

*Prefer new equipment on these items; for all others we prefer used, with desk and table tops covered with desk-top vinyl.

4. Reaugh Collection.

Two years ago the College accepted the Reaugh Collection of 200 small paintings on the condition that it be hung on permanent display. While these pictures were accepted for the Library, the general understanding was that they be hung after the Southwest Collection moved into the old library building. Since special provisions need to be made for the hanging of this collection, I am writing a separate letter in regard to it.

5. Air Conditioning.

One of the most important elements of our move is the air conditioning of the old library building. As I see it there are five basic reasons for installing cooling facilities.

(a.) Preservation of manuscripts. Ample scientific evidence is available to show that book and manuscripts can be preserved better in an atmosphere that is not subject to wide variations of temperature and humidity, or to temperature extremes, particularly extreme heat. Heat tends to drive moisture from the fibers of paper with the result that it dries, becomes brittle, and the ink fades. Frequent humidity and temperature changes accelerate fading and aging. Consequently all modern archival installations are provided with a controlled atmosphere.

5. Air Conditioning.

(b.) Competitive academic situation. So much has been said about the necessity of maintaining modern plant facilities in today's world that there is little I can add in this regard. I can't help but think that it would be short-sighted policy not to air condition this building at the time that it is being remodeled.

(c.) Existence of basic equipment. A significant reason for urging this installation at the time of renovation is the fact that the most expensive part of the equipment is already installed. I do not know the details, but Ray Janeway tells me that the cold water coils, the duct work, and the blowers were put in when the building was built and have been sitting idle ever since. According to him the whole building could be cooled with ground water at a very minimum expense, the only real problem being the disposition of the waste water.

(d.) Difficulty of ventilation. Without air conditioning, the part of the building which will be occupied by the Southwest Collection will be extremely difficult if not impossible to ventilate. In the first place, for security reasons, the lower levels of the stacks will be cut off from our levels; this will raise the temperature in what is already like an oven during the summer months, as it will make the stack areas completely without fresh air or ventilation. In the second place, the reading room (in the area of the present loan desk) which will be created by the new partition down the middle of the foyer will also be completely unventilated.

Since the summer months are our busiest time as far as research use is concerned, lack of air conditioning in these two vital areas will cause great discomfort to our patrons and student researchers. As far as our staff is concerned, we can probably survive without air conditioning because the work areas for processing and cataloging will be adjacent to outside walls where there are windows. Obviously, however, there is no question but that we would all be happier and more efficient if our work shop were cooled in the summer.

(e.) Dust Problem. In an un-air conditioned building, it will be necessary to keep the few outside windows open during the spring and summer when the sand is blowing. This will inevitably result in some possible damage to the collections as well as in a serious housekeeping problem.

Respectfully submitted,

/s/ Seymour V. Connor

Seymour V. Connor
Director

Campus Planning Committee
Attachment No. 392
March 8, 1962
Item No. 1913A

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of College Engineer

December 22, 1961

Mr. M. L. Pennington
Chairman
Campus Planning Committee
Campus

Dear Mr. Pennington:

It occurs to me that the architectural firms who perform the architectural services for the remodeling of the Journalism Building and the Old Library Building will need to be advised very early in the planning stages regarding the amount of consideration the College wishes to have included toward air conditioning the buildings.

The Old Library Building was designed and built under the assumption that year-round air conditioning would ultimately be provided. Heating has been provided through extensive duct systems, air handlers and coils. The cooling requirements of the building are approximately 75 tons.

It is my understanding that among the equipment now being acquired through the Surplus Property Disposal Agency is compressor-condenser equipment rated at 75 tons capacity.

Regarding the Journalism Building, it occurs to me that the building may ultimately be conditioned using chilled water from equipment located in the basement of the Classroom and Office Building. The utility tunnel between the Journalism and C and O Building was designed to accommodate chilled water lines serving buildings located to the south of the C and O Building.

It is my recommendation that the architectural firms for these two remodeling projects be instructed to plan the work on the premise that both buildings will be air conditioned, either now or later. This would be in keeping with policies adopted by the College Board of Directors regarding new building design.

Depending upon the extent of remodeling work in mind and its cost, it might be possible to provide at this time a certain amount of air conditioning in each building as a part of the remodeling projects.

Yours sincerely,

/s/Robert L. Mason

Robert L. Mason
Supervising Engineer

RIM:mm(b)

cc: Mr. Nolan E. Barrick
Mr. Olan R. Downing

Campus Planning Committee
Attachment No. 393
March 8, 1962
Item No. 1913B

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President

February 12, 1962

Dr. R. C. Goodwin, President
Texas Technological College
Campus

Dear Dr. Goodwin:

The following may be of value in the development of future building plans and in the utilization of space soon to be vacated in the old library building.

1. During the fall semester, 1961, eleven classes ranging in size from 134 students to 209 students were conducted in the Agricultural Engineering Auditorium*, a room that can be rated only "unsatisfactory" for instructional purposes since students must sit in opera-type seats and use lap boards for taking notes and examinations.

2. On the basis of information which I have received from Deans Heather and Kennedy, the following departments would utilize classrooms seating up to 200 students:

a. Biology -- planning for classes of 220 students in the addition to the Science Building. In the fall, 1961, seven lecture sections from 115 to 172 students were conducted.

b. Chemistry -- already using Chemistry Building 101 for classes up to 190 students. In the fall, 1961, seven lecture sections from 111 to 190 students met in C101.

c. Geology -- would like to use large lecture sections for Geology 143-144 classes. No room at present for large classes.

d. Government -- requested room for seven large classrooms seating up to 200 for spring, 1962; only five were available. In the fall, 1961, conducted four lecture sections, 180 to 202 students, in Agricultural Engineering Auditorium.

e. History -- because no space has been available in the fall, no classes up to 200 were scheduled. This department would like to schedule three or four classes up to 200 in size.

f. Physics -- with the new developments in the engineering curriculum, this department would like to schedule large lecture sections; it has no experience to go on in this respect.

g. Sociology -- will use large classes for lectures when suitable space becomes available.

h. Economics -- during the fall, 1961, two large classes with enrollments of 202 and 207 students were conducted in the Agricultural Engineering Auditorium.

i. Management -- during the fall, 1961, two classes of 160 and 170 students were conducted in the Agricultural Engineering Auditorium.

j. Architecture -- conducted one class of 209 students in the Agricultural Engineering Auditorium, fall, 1961.

3. It is apparent that the large classroom in the new wing of the Science Building will take care of some of the needs in the science departments.

4. The departments of Economics, Government, History, Management and Marketing can well utilize good, well-equipped classrooms seating 200 students.

In September, 1958, Dean Heather filed with Mr. Barrick a letter containing suggestions for the incorporation of a large lecture hall in the Classroom and Office Building; in this the recommendation was made that a hall seating 400 students be provided for in the C & O Building. The need for such a facility remains, but on the basis of the information in the numbered paragraphs above, it is my belief that there is an immediate need for classrooms seating up to 200 students. A 400-500 seat lecture hall might well be included in the plans of a general purpose classroom and office building which I hope will be given a high priority in the next building program.

Sincerely yours,

/s/W. M. Pearce

W. M. Pearce
Academic Vice President

WMP:pc(b)

*Source, Letter from Miss Evelyn Clewell

Campus Planning Committee
Attachment No. 394
March 8, 1962
Item No. 1915B

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

March 1, 1962

To: Marshall L. Pennington, Chairman
Campus Planning Committee

From: Department of Geology

Subject: Reallocation of space within the Department of Geology.

At the present time certain rooms assigned to this department are not being used efficiently, others should not be used as they are presently, and space is lacking for other critical purposes.

The following changes are proposed with reasons for each.

Room 35. Present use: Classroom for 64 students.

Proposed use: Shop and lumber storage.

This room is located next to the utilities room in which pumps cut-in, cut-out and operate for short periods of time at frequent intervals. The noise drowns out the voice of a lecturer and disturbs the students and the lecturer. The room has a single window, is poorly ventilated and very unsatisfactory as a classroom. As a shop it would be satisfactory and would also serve as a lumber storage room. At present lumber is stored in the paleontology laboratory.

Room 2. Present use: Paleontology laboratory, lumber storage, rock crusher.

Proposed use: paleontology laboratory, petroleum geology laboratory. The furniture and equipment housed in this room can be used advantageously by students in paleontology and in petroleum geology. Rock preparation equipment should not be stored and used in a laboratory in which microscopes are used. The lumber takes up considerable room and is unsightly.

Room 12. Present use: Geomorphology and structural geology laboratory.

Proposed use: lecture room for 64 students. This room will replace Room 35.

Room 24. Present use: Small lecture room, 30 students.

Proposed use: Preparations room. At present we have no space in which to house rock crushers, grinders, polishers, saws, etc. They are scattered piecemeal about the building and should be concentrated in one room. Room 24 would be ideal if running water and sink were available.

Room 153. Present use: Lecture room for 64 students.

Proposed use: Lecture room for 104 students. We believe that rooms 153 and 102 can be combined and 5 rows of chairs added. The partition butts into the middle of a window and the class is disturbed by voices and activities in room 102. The steps on which the rows of chairs are placed could be extended five more rows without putting the last row too close to the ceiling. Department of Physics would have to agree to this loss of an assistant's room.

Marshall L. Pennington
Page 2
March 1, 1962

Room 167. Present use: Sedimentation and petroleum geology laboratory.

Proposed use: Geomorphology and structural geology laboratory. The sedimentation laboratory is to be moved into new quarters in the new wing. Petroleum Geology can occupy jointly room 2 with paleontology.

Room 169. Present use: Shop.

Proposed use: Storage and issue room. This room was originally designed for storage. When it became necessary to provide space for the shop, this room was the only one of adequate size. We need the storage space. Also, this department has no issue room and keeping records of equipment and apparatus issued to staff and students is exceedingly difficult. By adapting this room to this purpose we can shrink the list of "missing items" considerably and possibly eliminate it.

Room 156. Present use: Office supplies, map storage.

Proposed use: Office research laboratory for Dr. Sturm. The map storage cases will be moved into the new map library. Office storage will be concentrated in Room 154-A.

Room 304. Present use: Map library, storage.

Proposed use: Graduate student cubicles, storage and research. Map library will be moved to new quarters. That area can be divided into 6 cubicles for graduate student offices. The remainder can be used for sample storage and some research projects.

Room 308. Present use: Graduate research laboratory.

Proposed use: Geochemistry laboratory. The graduate research laboratory in the new wing will be adequate for the present for student use. Research in geochemistry will be carried on in room 308 which, except for a hood, will meet the requirements.

Approval of the Campus Planning Committee is requested.

Sincerely yours,

/s/ F. Alton Wade

F. Alton Wade, Head
Department of Geology

FAW:ab(1)

cc: Nolan E. Barrick
E. J. Urbanovsky
D. M. McElroy

Campus Planning Committee
Attachment No. 395
March 8, 1962
Item No. 1922

AIR CONDITIONING SYSTEM FOR PRESS BLDG.
PHYSICAL PLANT COMPLEX
TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

Bids will be received in Room 253, East Engineering Building, until
2 p.m. (C.S.T.), Thursday, March 8, 1962.

TABULATION OF BIDS

| BIDDER | BID BOND | BID PRICE FOR PROJECT |
|----------------------------|----------|-----------------------|
| Sam Ainsworth Co. | X | \$23,358.00 |
| Altman's Htg. & A.C. Co. | X | 24,727.00 |
| Anthony Co. | X | 22,865.00 |
| Armstrong's Ht. & A.C. Co. | | |
| Caprock Plumbing Co. | | |
| P & C Mech. Contrs. | X | 22,765.00 |
| Ray Plbg. & Htg. Co. | X | 24,203.00 |
| Roche Newton & Co. | X | 22,932.00 |
| Rountree Co. | | |
| Bud Samson Co. | | |
| H. E. Taylor Co. | X | 23,637.00 |