

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 91

October 5, 1960

A meeting of the Campus Planning Committee was held on Wednesday, October 5, 1960, at 4:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1287. Approval of Minutes

On motion by Colonel West, seconded by Mr. Urbanovsky, the Minutes of Meetings Nos. 87, 88, 89 and 90 were approved.

1288. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meeting No. 87 on September 26, 1960.

1289. Administration Building

The Chairman reported that President Goodwin has requested the CPC to begin study of a new Administration Building as the College is outgrowing the present facilities. He asked that care be taken to see that the proposed Administration Building be placed properly on the Priority List.

1290. Agricultural Plant Sciences Building

A. Construction Progress

Progress is good and the project is just about closed in. Block work is being started on the south side.

B. Solar Screen

It was impossible to get lighter tiles and the contractor has been authorized to make the installation in keeping with the last sample.

1291. Boiler and Housing

A. Boiler

Mr. Mason reported in a letter dated September 16, 1960, to Mr. Nolan E. Barrick, that December 5, 1960, is the agreed date for starting up and checking out operations to begin on the boiler. Final acceptance will be made after December 5, 1960. The letter is attached to and made a part of the Minutes. (Attachment No. 257, page 735)

B. Housing

The housing is complete with the exception of some cracked panels in the skylight and material has been ordered for replacement.

1292. Central Chilling Station

Mr. Barrick reported that conferences have been held on all three types of cooling towers and material is being studied in order to make a recommendation to the Board of Directors at the next meeting.

1293. Chemical Engineering Building

Construction progress is rather good and the contractor expects to start setting prestressed tees next Monday.

1294. Classroom-Office Building

A. Progress Report on Punch List

1. Chalkboards

The painter was to redo the two chalkboards in the poorest condition last Friday night. However, the sample paint had not arrived in time and the painter will be unable to redo the surfaces until Monday night, October 10, 1960.

2. Windows

The contractor has yet to recaulk the windows and repair the mullions.

3. Air Conditioning

Mr. Barrick reported that the architects are trying some new filters but they do not know yet if it will help.

4. Sound Transmission

The architects have installed some fiber glass boxes as baffles around the ceiling louvers in Room 126 and in another room on the second floor. As he is in one of the offices, Dr. Nall has been requested to observe the results and to let the architects know of the results.

5. Air Intake Screens

The architects are going to spray a number of screens with fiber glass paint in order to cut down the amount of air intake and attempt to alleviate some of the dust.

The cost of the springs to hold the screens in place is so small that the Department of Building Maintenance is attempting to find suitable springs and will install them as soon as available.

6. Locks

The lock to Room No. 208 has been returned and is installed.

Mr. Duncan, the contractor, has reported that a representative of the subcontractor is to come from Dallas to check on the locks and doors.

7. General

The Punch List was sent to Mr. S. R. Duncan by the Chairman on September 14, 1960. A copy of the letter is attached to and made a part of the Minutes. (Attachment No. 258, page 736)

Mr. Barrick, Mr. Kimmel and the Chairman met with Mr. Duncan on September 27, 1960. At that time, Mr. Duncan said that he would check out all items on the Punch List and keep us posted. He has called in once since that time to report and repeated that he would do what is right.

1294. Classroom-Office Building (continued)B. Roof Leaks

Mr. Duncan reported that the roof contractor has made repairs but Mr. Duncan has not repainted the water marks on the inside. He said that he would do so.

C. Bulletin Boards

Mr. McElroy reported that the bulletin boards have been ordered and acknowledgment of the order has been received.

1295. Computer-Architecture BuildingA. Construction Progress

The contractor is still moving along nicely and is just about finished. Mr. Barrick reported that it looks to him as if the project will be finished about October 24 or 25, 1960.

B. Equipment1. Architecture and Allied Arts

The basic equipment is arriving, but no solution has been found to the cost of the manufactured items such as the tables.

2. Computer

The outline of operations for the Computer Center has yet to be received and this item is not to appear in the Minutes again until the outline is received.

1296. Fanning, J. R.

The paving, curb and gutter for the parking lots at the New Men's Residence Halls and Engineers Lane were accepted on September 7, 1960, and final payment made to the contractor. The acceptance date will be recorded in the Minutes of the Board of Directors in order to be of permanent record. #57⁰ pay agenda

1297. Farm Residence, Fourth and Quaker

Several years back, the abandoned farm residence at the corner of Quaker Avenue and Fourth Street was given to the Texas Tech Rodeo Association to salvage the material. Later, the Rodeo Association asked to be relieved of the responsibility as it was not economically feasible to raze the building and salvage the materials. Other attempts were made to dispose of the building, without success.

In the past few days, Mr. Herbert H. Hall contacted Mr. McElroy and stated that he would remove the building and clear the site for the materials. The CPC was of the opinion that it would be to the College's advantage to accept the offer and checked with Dean Thomas, who agreed.

The CPC recommended that the house be given to Mr. Hall to raze on the condition that he clear the site of all structures. It is hoped that he can be prevailed upon to fill in the storm cellar and the small well which is unusable in its present state. It would be as economical to drill a new well if one should ever be needed in the location. If possible, the Museum would like to have the wheel and six to eight feet of the tower to be stored for future use in the Museum.

1297. Farm Residence, Fourth and Quaker (continued)

The members of the Building Committee were polled on October 3, 1960, with the recommendation that the residence be given to Mr. Hall for salvage material, with the understanding that he would clear the site. The voting was as follows:

Mr. J. Evetts Haley, Chairman	"Aye"
Mr. Harold Hinn	"Aye"
Mr. Wilmer Smith	"Aye"

Mr. Hall was notified the same day of the action of the Building Committee.

In keeping with the Board of Directors, the item will appear for Board approval at the next meeting.

#569,
pay agenda

1298. Financial Report

It was agreed that another over-all Financial Report is needed and that one would be made as soon as possible.

1299. LibraryA. Construction Progress

The contractor continues to make excellent progress. The basement and one-third of the first floor slab have been poured.

B. Alternates

Mr. Barrick reported that he had received the change orders from the contractor and they are in the process of being checked by his office. The change orders are in keeping with the action of the Board of Directors at the August 20, 1960, Board meeting.

C. Solar Screen

Mr. Barrick reported that the sample tile arrived in Lubbock today. There has been no opportunity to inspect it. A sample screen is to be erected in time for members of the Board of Directors to view it on October 21, 1960. As the sample needs to be set rather high in the air to be appropriate, Colonel West said that he would see if he could provide some sort of a platform on which to erect the tile sample.

D. Request for Dirt Hauling

The amount has yet to be received.

E. Lights

The contractor is still working on his study of the lights.

1300. Married Student HousingA. Mr. McElroy's Report

The CPC voted to commend Mr. McElroy for a job well done in the preparation of his report on "Married Student Housing" and to include it in the Minutes. The report is attached to and made a part of the Minutes. (Attachment No. 259, page 737)

1300. Married Student Housing (continued)B. Outside Financing

The Chairman reported that Mr. L. L. Cain of Lubbock has informed him that he is to be the owner and operator of the apartments and stated that they plan to build 256 units with provisions for additional stories in the future. He said that he would like an official expression from the Board of Directors on future college housing. It was suggested to him that he prepare a request to be submitted to the Board of Directors for appropriate action.

1301. Major Repairs and RehabilitationsA. Rehabilitation of Herd and Farm Houses and Poultry Laboratories (1959-60, \$4,000.00) (1960-61, \$4,000.00)

Colonel West reported that the rehabilitation of the farm houses is about 99% complete.

B. Repointing Stone and Brickwork and Waterproofing Exteriors of Science, Chemistry and Other Buildings (1959-60, \$41,800.00) (1960-61, \$37,600.00)

Mr. Barrick reported that the contractor is almost finished with the work. He has been conscientious in attempting to do a good job. The Punch List for final acceptance has been made but all of the items have not been corrected. The contractor's workers broke a number of roof tiles which have had to be replaced. The contractor will pay for his share of the broken tiles.

1302. Meats LaboratoryA. Construction Progress

The brick is now on hand and progress is satisfactory.

B. Scales

The original plans and specifications called for the College to furnish the platform scales. Requests for prices have been sent out so that dimensions can be obtained from the low bidder in order that the pit can be designed to properly accommodate the scales.

1303. Mechanical Engineering ShopsA. Construction Progress

Progress is satisfactory, the contractor is installing partitions and duct work. The project could be completed by the middle of December.

B. Equipment

It was agreed to include the letter dated September 22, 1960, from Professor L. J. Powers in the Minutes. The letter is attached to and made a part of the Minutes. (Attachment No. 260, page 738)

Colonel West will make an exhaustive search for the milling machine and report his findings.

1304. Music Building

Mr. Barrick reported that only Mr. Downing had done any checking on remedial measures to improve sound transmission in the west upstairs rooms. He said that he would request Mr. Mason to check it out with him as soon as they can get together.

1305. Other Items

When the new Computer-Architecture Building is completed, the Department of Architecture and Allied Arts will move from X-1, X-2 and X-5. The CPC voted to recommend the sale of the buildings, with the bids to be presented at the next meeting of the Board of Directors, if at all possible.

1306. Campus Mail Service

Mr. McElroy, with the assistance of Mr. Cummings, Mr. Taylor and Mr. Peak, prepared a letter for submission to the Postmaster of Lubbock, a copy of which is attached to and made a part of the Minutes. (Attachment No. 261, page 739)

1307. Parking LotsA. Control Lot

Mr. Urbanovsky reported that better than 200 spaces have been sold to date, and a few more are being sold each day.

B. Dirt Lot South of Dairy Barn

Mr. Urbanovsky reported that several counts reveal that from 200 to 240 students are regularly using the parking lot. The capacity is about 500.

1308. Physical Plant Facilities

Construction progress is very good and the contractor is installing the roof.

1309. Relocation of Farm FacilitiesA. Agronomy

The project is complete with some minor finishing and a bit of electrical work. The final inspection has not been made yet.

B. Horticulture

The project is practically complete but there are a few minor items to finish such as the south side door pulls which do not function properly.

C. Dairy Facilities

Mr. Barrick reported that his staff is still attempting to work a tile roof into the plans.

D. Poultry

Mr. Barrick reported that the plans are being made in accordance with the memo to him dated September 21, 1960, which is attached to and made a part of the Minutes. (Attachment No. 262, page 740)

E. Student Housing

No progress has been made past the preliminary sketch due to a lack of time.

F. Livestock Facilities

Mr. Urbanovsky and Mr. Barrick reported that the study is in process but there is little of significance to report at this time.

1310. Science Building

Mr. Barrick reported that the Project Architects are working on the plans. At the request of the Architects, he secured some information from Dr. Camp on the lecture hall and passed it on to the architects. It was agreed that the lecture hall must be very carefully studied as it affects the access to the rear of the building, parking and pedestrian traffic.

The letter from the Architects setting out the time schedule under the date of September 9, 1960, is attached to and made a part of the Minutes. (Attachment No. 263, page 741)

1311. Student UnionA. Work Order

All necessary material is at the Regional Office of the HHFA in Fort Worth, but a work order has yet to be received.

B. Ground Breaking Ceremonies

Ground Breaking Ceremonies were held on September 23, 1960, with approximately 40 student organizations participating. It was a very successful ceremony.

C. Construction Progress

The contractor has erected the fence and started excavation.

D. Change Orders

The Project Architects are still working on the details of the change orders required to implement the action of the Board at the last meeting.

1312. UtilitiesA. Water Lines and Sprinkler System

Mr. Urbanovsky reported that the transite pipe has yet to be delivered.

B. Electrical Installation (Nelson Electric Company of Lubbock)

Mr. Barrick reported that the contractor has completed just about all the work that he can until the plant can be shut down on some holiday to complete the switch over.

C. Tunnels and Other Utilities (Anthony Company of Lubbock)

The project is substantially complete and final inspection is scheduled for Friday, October 7, 1960.

D. Switch House

The building is complete, with the exception of the roof. The steel has just arrived and the job will be closed in next week.

1313. Veterinary Science BuildingPost-mortem Room

No work has been done on the preparation of the plans and specifications to date.

1314. Walks, Drives and Parking LotsCurb, Gutter and Paving Northeast Corner of Women's Gym

The project is complete and was accepted on September 27, 1960. Final payment has been made and the final acceptance date should be recorded in the Minutes of the Board of Directors.

1315. Women's GymA. Construction Progress

For all practical purposes, the Gym is complete.

B. Estimated Completion Date

The contractor requested final inspection on October 4, 1960, but the mechanical and electrical installations had not been checked. The inspection was delayed until next Monday, October 10, 1960. As it was not the fault of the contractor, it was agreed to recommend the date of October 4, 1960, as that for substantial completion in order to show a cut-off date for liquidated damages.

C. Tennis Courts and Outside Facilities

By letter dated October 3, 1960, Dr. Mary B. Dabney notified the CPC that she and the members of her staff would prefer two good concrete tennis courts in lieu of the proposed asphalt courts. The number would be insufficient but for the reasons shown in the letter, concrete is much preferable to asphalt. The letter is attached to and made a part of the Minutes. (Attachment No. 264, page 742)

After very careful consideration, the CPC agreed to recommend the construction of concrete courts rather than asphalt. As two courts could not provide anywhere near adequate facilities, the CPC recommended four concrete courts. Mr. Urbanovsky was requested to work with Dr. Dabney to develop any feasible economies in size and fencing.

M. L. Pennington
Chairman

The meeting adjourned at 6:25 p.m. The next meeting will be to consider only items needed for the Board of Directors' meeting on October 21, 1960.

Campus Planning Committee
October 5, 1960
Attachment No. 257
Item 1291

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the College Engineer

September 16, 1960

Mr. Nolan E. Barrick
Supervising Architect
Campus

Re: Steam Generating System
Texas Tech College

Dear Mr. Barrick:

The installation of equipment of subject project was completed too late in the spring to do more than merely determine whether or not the equipment would all operate, and acceptance tests were tentatively scheduled for the first week in December 1960. Tuning-up runs at that time revealed an unbalance in the induced draft fan. Steps have since been taken to clear up vibrations due to the unbalance. All other items of equipment seemed to function properly, but there are many additional adjustments and calibrations to be made at the time the system is put into operation.

December 5, 1960 now appears to be a suitable date to set for the starting-up and checking out operations to begin. I am advising the contractor, Martyn Brothers, Inc., of Dallas, of this date. With the date established the contractor, service engineers, company representatives and any other interested individuals may plan to look after their interest or obligation in the project.

Since only tuning-up, calibrating and checking out of equipment is yet required, and since the contractor has been tied up on this project for a much longer time than could be predicated originally, I recommend that an additional payment be made to him at this time such that only 5 per cent of the contract price be retained by the College until the date of final acceptance. The specifications state that a surety bond, furnished by the contractor, shall be maintained in force until one year after date of final acceptance of the system by the owner. I therefore feel that it would be perfectly safe to make the additional payment at this time.

Yours very truly,

/s/ Robert L. Mason

Robert L. Mason
College Engineer

RLM:mm

cc: Mr. M. L. Pennington
Mr. O. R. Downing

Campus Planning Committee
October 5, 1960
Attachment No. 258
Item 1294-A (7)

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
and Comptroller

September 14, 1960

Mr. S. R. Duncan
Building Contractor
8108 Tahoka Highway
Lubbock, Texas

Re: Classroom-Office Building
Texas Technological College

Dear Mr. Duncan:

Since you were unable to attend the meeting recently, a list of items needing correction on the Classroom-Office Building is enclosed.

Although there are always items needing correction and adjustments on new projects, it seems as if there may be an unusual number on the Classroom-Office Building and, perhaps, an unusual amount of difficulty is being experienced in attempting to get the items corrected.

As our time is somewhat limited also, will you please let me know your intentions at your first convenient opportunity.

Very truly yours,

M. L. Pennington
Vice President and
Comptroller

MLP:g
Enclosure
cc: Mr. Warlick Carr
Mr. Turner Kimmel

CLASSROOM-OFFICE BUILDING
TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

The following is a list of items that need to be repaired on this building:

1. Water leak in Room 216-C.
2. Leaks in stair at East Entrance.
3. Leaks in window wall at Main Entrance.
4. Leak in West stair tower at downspout South East wall.
5. Leaks in window wall west stair tower of center portion of building.
6. Locks on many interior doors not locking properly.
7. Locks on exterior doors not locking properly.
8. Door binding in Men's Toilet Room second floor.
9. Vent screens under spandrel around perimeter of building not securely anchored.
10. Metal loose on column at east entrance to west stair tower.
11. Paving at loading dock on west service drive needs patching.
12. Flooring and base loose in Dean's Office and a number of places over the building.
13. Caulking at mullions around windows needs checking and some recaulking.
14. Crack in tile wall first floor east entrance at corridor. Tile loose and some need replacing.
15. Resurface chalkboards.

Some of these items may have been taken care of, since we did not have access to all of the building it was impossible to check all of the items on this list.

Campus Planning Committee
October 5, 1960
Attachment No. 259
Item 1300-A

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
and Comptroller

MARRIED STUDENT HOUSING SURVEY

Purpose of the Survey

The purpose of this survey was to assemble sufficient information to determine if there is a need for college owned married student housing at Texas Tech, or if the community is providing adequate housing.

It has never been definitely established that any married person has been denied an education at Texas Technological College due to his inability to secure adequate housing facilities. So many other colleges and universities have initiated married student housing programs that a need for a housing survey at Texas Tech was indicated.

This survey was conducted on the principle that Texas Tech does not consider the field of real estate and property rentals to be within the normal concept of college functions. At the same time, the College recognizes as much responsibility to the married students as it does to the single students to see that they have adequate housing.

The married student, due to the nature of his daily routine, family responsibilities, and extra curricular interests, requires housing which provides privacy, rather than the opportunity for group study and association, as offered in the single student residence halls. The single student's need for residence, study facilities, group association and supervision is more efficiently provided in large halls. The local property owner, therefore, can more easily provide housing facilities for the married student than for the single student.

The College, through land costs and tax advantages, should be able to offer at a lower rental rate a housing unit comparable to that of a local property owner. This advantage should leave no doubt as to the ability to keep occupied any facilities which the College might provide. On the other hand, if the local property owners can furnish adequate housing facilities, they should be encouraged to do so.

Phases of the Survey

To determine if there is a need for college owned housing at Texas Tech, two basic questions were evident:

1. Is it physically possible for a city the size of Lubbock, Texas, to provide adequate housing facilities for 1,574 married students and their families?
2. Do the housing facilities presently offered to Texas Tech students meet acceptable housing standards?

The first question was approached with the assumption that multiple unit housing for exclusive rental to college students has not, to this time, been economically attractive to the private investor, and the majority of housing units will be provided by small property owners offering one or two units. On this basis, the ability of local property owners to provide adequate housing for the married students of any college would be dependent upon the size of the community, and the size of the college.

A questionnaire was prepared and mailed to forty-two colleges and universities, each with an enrollment in excess of 5,000 students. The purpose of the questionnaire was to determine if there exists a ratio between community population and institutional enrollment that would indicate a community's ability to provide the necessary married student housing.

The information for the second question could best be obtained from the students using the housing facilities, and a questionnaire was directed to them.

The first questionnaire was mailed to forty-two colleges and universities. Responses were received from thirty-seven. Most questions had as many answers as there were responding institutions, and the answers are necessarily summarized in this report. Where summaries are lacking in clarity, "Survey Comments" are added for the purpose of clarification.

The second questionnaire was mailed to 1,574 married men students. Questionnaires were completed by 1,007 of the married men, 192 of whom own their own homes, and 67 of whom own house trailers.

The purpose of this questionnaire was to determine if rental units in Lubbock are meeting acceptable housing standards; therefore, this summary will be confined only to the 748 responses from renters.

Again, "Survey Comments" are used for the purpose of clarifying the summary.

HOUSING SURVEY
Requested By
TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

(Completed by Responding Institution)
Name of Responding Institution

(Completed by Responding Institution)
Address

1. Enrollment (1959 Fall Semester) _____

Survey Comment: This question revealed that responses came from institutions with enrollments as follows:

- A. 13 with enrollments of 5,000 to 6,000.
- B. 9 with enrollments of 7,000 to 8,000.
- C. 8 with enrollments of 9,000 to 10,000.
- D. 2 with enrollments of 11,000 to 12,000.
- E. 2 with enrollments of 13,000 to 14,000.
- F. 3 with enrollments of 15,000 to 20,000.

2. Population of city in which institution is located (1950) _____,
(1960) estimate _____.

Survey Comment: Questions 1 and 2 permitted the grouping of colleges according to ratio of enrollment to population of city as follows:

- A. 17 in cities of 1 to 5 times the college's enrollment.
- B. 6 in cities of 6 to 14 times the college's enrollment.
- C. 7 in cities of 15 to 25 times the college's enrollment.
- D. 7 in cities of over 25 times the college's enrollment.

3. Capacity of your institution's unmarried student housing facilities:

Survey Comment: Answers to this question indicated that only three institutions exceeded Texas Tech's ability to house fifty-one per cent of the present enrollment. Four institutions were just under Texas Tech by one to three per cent. The average capacity of the residence halls was 36.7% of the present enrollment.

4. What per cent of enrollment is of married students? _____

Survey Comment: Answers to this question ran from a low of five per cent at the University of Miami, Florida, to a high of thirty-one per cent at Southern Methodist University of Dallas, Texas, but most of them were right along with Texas Tech's twenty-two per cent."

5. Which of the following statements relative to married student housing is applicable to your institution?
- A. 34 said Are providing facilities either on or near the campus.
 - B. 17 said Are providing some and plan to provide more.
 - C. 0 said Are not providing now, but plan to in the near future.
 - D. 0 said Are not providing now, but studying the problem.
 - E. 4 said Community provides adequate housing.
6. Please show the number of married student housing units in each of the following types of structures:
- A. Masonry units designed for this particular use.
 - 1. 22 had 5,604 In use.
 - 2. 8 had 1,899 Under construction.
 - 3. 11 had 4,169 In planning stage.
 - B. Frame units designed for this particular use.
 - 1. 7 had 1,168 In use.
 - 2. 1 had 48 Under construction.
 - 3. 0 were In planning stage.
 - C. Existing facilities converted to this particular use.
 - 1. 3 had 405 In use.
 - 2. 0 were Under construction.
 - 3. 0 were In planning stage.
 - D. Rehabilitated war surplus buildings near enough to the campus to be used at the original government installation.
 - 1. 8 had 1,402 In use.
 - 2. 0 Planned to procure.
 - E. Rehabilitated war surplus buildings moved to or near the campus.
 - 1. 20 had 5,521 In use.
 - 2. 0 Planned to procure.
7. Were any protests voiced by local property owners when the married student housing program was launched? 18 said, "No"; 16 said, "Yes."
8. Has the operation of your housing program been detrimental or beneficial to local property owners' ability to rent their units?

Survey Comment: Most colleges indicated that in spite of the lowering of private property owners rent income, that the housing programs had generally been beneficial to the local property owner.

9. How did you determine the necessity of your institution's providing married student housing?
- A. 20 said Institution's enrollment and city's population made it obvious.
 - B. 11 said Survey of married students.
 - C. 21 said Volume of individual requests from students.
 - D. 2 said Organized requests from students.
10. Which of the following have you sensed as being the most important benefits derived from your married student housing program?
- A. 16 said Lower rental rates of privately owned units.
 - B. 15 said Improved rental facilities offered by local property owners.
 - C. 4 said Served as an incentive for local property owners to provide more rental units.
 - D. 12 said Improved the institution's position in selecting teaching fellows.
 - E. 21 said Improved the institution's position in attracting graduate students.
11. Supplemental remarks to any of the above:
- Survey Comment: Several institutions furnished supplemental information which is impossible to record on this summary, but the return questionnaires are on file for future study.
12. Would you like for us to send you a copy of this survey summary?
36 said, "Yes."

Prepared by: (Responding Institution)

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MARRIED STUDENT HOUSING SURVEY

1. Scholastic classification:

Survey Comment: Questionnaires were returned by:

43 Freshmen

97 Sophomores

183 Juniors

377 Seniors

48 Graduates

2. Year entered Texas Tech, ____; Year of marriage, ____; Number of Children, ____.

Survey Comment: The purpose of this question was to determine how many students had married since entering college, and the number shown was 400. The question also showed the following:

- A. 399 had no children.
- B. 246 had one child.
- C. 78 had two children.
- D. 21 had three children.
- E. 3 had four children.
- F. 1 had five children.

3. Number of college credit hours being carried by: Husband ____; Wife ____

Survey Comment: Answers to this question indicated the following:

- A. 666 husbands were full-time students.
- B. 82 husbands were part-time students.
- C. 58 wives were full-time students.
- D. 42 wives were part-time students.

4. Employment status of: Husband ____; Wife ____

Survey Comment: Answers to this question indicated the following:

- A. 79 men had full-time jobs.
- B. 423 wives had full-time jobs.
- C. 410 men had part-time jobs.
- D. 46 wives had part-time jobs.
- E. 98 men had on-campus jobs.
- F. 49 wives had on-campus jobs.
- G. 351 men had off-campus jobs.
- H. 381 wives had off-campus jobs.

5. Do you own a car? _____; Make, _____; Model, _____.

Survey Comment: Answers to this question indicated the following:

- A. 176 owned cars from new to two years old.
- B. 369 owned cars from three to six years old.
- C. 144 owned cars from seven to ten years old.
- D. 17 owned cars over ten years old.

6. Method of providing housing:

- A. 667 rent from person other than a relative.
- B. 42 rent from a relative.
- C. 67 own a house trailer.
- D. 33 perform some service in exchange for part or all of rent.
- E. 5 live with husband or wife's parents.
- F. 192 own their own home.

7. Present address: (Completed by each responding student)

8. Please classify your quarters as a unit of one of the following:

Survey Comment: The following results were determined:

- A. 151 live in multiple unit rent projects of more than 12 units.
- B. 62 live in multiple unit rent projects of four to twelve units.
- C. 227 rent single unit dwellings.
- D. 119 live in one side of a privately owned duplex.
- E. 56 live in old houses, or buildings converted into apartments.
- F. 149 live in small houses on the back of a lot, garage apartments, or in a house which has a garage apartment or small house behind it.

9. How much is your rent per month?

Survey Comment: The following results were determined:

- A. 18 paid \$30.00 to \$40.00.
- B. 69 paid \$40.00 to \$50.00.
- C. 140 paid \$50.00 to \$60.00.
- D. 231 paid \$60.00 to \$70.00.
- E. 170 paid \$70.00 to \$80.00.
- F. 42 paid \$80.00 to \$90.00.
- G. 42 paid over \$90.00

10. What utilities do you have to pay?

Survey Comment: The following results were determined:

- A. 336 paid water.
- B. 429 paid gas.
- C. 444 paid electricity.

11. Is your unit furnished? _____

- A. 340 answered "Yes."
- B. 305 answered "No."
- C. 99 answered "Partially furnished."

12. Do you have a private entrance? 16 said "No."13. Do you have a private bath? 11 said "No" Kitchen? 6 said "No"

14. How many rooms, excluding bath, in your unit?

Survey Comment:

- A. 9 lived in a one-room unit.
- B. 74 lived in a two-room unit.
- C. 233 lived in a three-room unit.
- D. 330 lived in a four-room unit.
- E. 81 lived in a five-room unit.
- F. 21 lived in a six or more room unit.

15. Which type heating do you have?

- A. 193 had floor furnaces.
- B. 174 had wall panel heaters.
- C. 84 had central heat with forced air.
- D. 305 had open gas heaters.

16. Which type cooling do you have?

- A. 13 had central refrigerated air.
- B. 72 had window-type refrigerated air.
- C. 32 had central evaporative cooler.
- D. 429 had window-type evaporative cooler.
- E. 209 had none.

17. Type of off-street parking provided:

- A. 236 said garage.
- B. 47 said carport.
- C. 257 said driveway.
- D. 78 said recessed curb for angle parking.
- E. 147 said none.

18. Is a location within walking distance of the campus an important factor when looking for living quarters? 433 said "Yes."
19. In as honest appraisal as possible, please classify your present quarters as to its habitability.
- A. 137 said very good.
 - B. 218 said above average.
 - C. 352 said average.
 - D. 33 said below average.
 - E. 7 said substandard.
20. Do you favor the college building apartment units on the campus solely for married students?
- A. 606 said "Yes."
 - B. 142 said "No."

QUESTIONNAIRE INDICATIONS

Responses from college questionnaires indicated:

1. The ratio of college enrollment to city population had little or no bearing on whether a college provided married student housing; however, this ratio did appear to be related to plans for adding more facilities. The number of housing units provided by each college was subtracted from the number of married students at each college to show how many students must be housed by the community (this number was identified as "unhoused married students"). This revealed that thirteen colleges were in cities with populations over 70 times the number of "unhoused married students." Only three of the thirteen were planning to add more housing facilities as compared to ten who were not adding. This seems to indicate that a community may provide one married student rental unit from each group of seventy citizens, dependent, of course, on the type of community economy and restrictive zoning ordinances. Lubbock's approximately 130,000 population is 89 times Texas Tech's 1,574 "unhoused married students."
2. The colleges indicated a substantial benefit derived from their ability to attract graduate students through the housing program.
3. College owned housing was not detrimental to local property owners as college housing seems to attract additional married students to offset loss of tenants to college units.
4. College owned housing results in lower rental and higher housing standards for units, provided by local property owners.

Questionnaires returned by married students, plus observance of rental advertisements and a telephone survey of multiple unit apartment houses, indicate:

1. The married students at Texas Tech would like to live in multiple unit apartments exclusively for married students.
2. Exclusive multiple unit housing would be socially and economically beneficial to the married students.
3. Multiple unit apartments on or near the campus could always be kept occupied to capacity by married students.
4. The Texas Tech married students have a variety of apartments from which to choose living quarters if they do not stay too close to the campus.
5. The large number of units heated by open gas heaters is a basis of some concern for the students' welfare.
6. Rental rates in Lubbock are higher than those in many communities where college owned housing is provided.
7. During the 1960 spring semester, there were approximately 125 vacant rental units in multiple unit projects in Lubbock.

SURVEY CONCLUSIONS

The information assembled during this survey establishes that the City of Lubbock, Texas, is providing adequate housing for the married students, perhaps not to the standards or at the rates desired, but to the extent that no critical physical need for college owned housing at Texas Technological College exists, and no married person need be denied a college education at Texas Tech because of inability to secure housing.

SURVEY CONJECTURE

If Texas Tech or a private investor should construct, on or very near the campus, a multiple unit apartment project exclusively for married students, it would be well received, and should have capacity occupancy. Such construction would improve housing standards generally if the new units rent for reasonable amounts. This will still not eliminate the necessity of some married students living in inferior units. There will always be a few who can afford no more rent than the inferior unit brings.

The relation of married student housing to the graduate and teaching fellow program at Texas Tech is another survey in itself, and should be made by or on the Dean's level. The material in this survey could only supplement one based on academic need.

Campus Planning Committee
October 5, 1960
Attachment No. 260
Item 1303-B

T E X A S T E C H N O L O G I C A L C O L L E G E

Division of Engineering

Lubbock

Department of Mechanical Engineering

September 22, 1960

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

Dear Sir:

Pursuant to the note of item 1256, meeting 86 of the Campus Planning Committee, consideration of the subject equipment request need be no longer delayed.

I have inspected all surplus property recently received, all that is on hand, and have inquired into the nature of equipment received in the past. I am satisfied that there is no likelihood of our obtaining either the large milling machine nor even the balance of equipment requested through the Texas Surplus Property Agency.

Concerning the small milling machine and lathe obtained from the Agency, we were charged about \$275.00 total for the two items, and will have additional expenses in the amount of about \$200.00 for repairs to and parts for the lathe to put it in operating condition. Though we no longer need the two requested items, there is a total expense in the neighborhood of \$500.00 associated with the acquisition of said equipment.

Consideration of this should be included in the adjusted request.

Yours very truly,

/s/ L. J. Powers

L. J. Powers
Head, Department of
Mechanical Engineering

LJP:ld

cc: Dean J. R. Bradford

Campus Planning Committee
October 5, 1960
Attachment No. 261
Item 1306

TEXAS TECHNOLOGICAL COLLEGE

Lubbock, Texas

Office of the Vice President and Comptroller

September 30, 1960

Post Office Department
800 Broadway
Lubbock, Texas

Attention: Mr. Amos H. Howard, Postmaster

Gentlemen:

The constant enrollment increase at Texas Technological College has resulted in a volume of incoming mail beyond the physical ability of the Texas Tech substation and College personnel to handle efficiently.

The greatest problems are presented by:

1. The demand on personnel making campus deliveries to academic, administrative and service departments. This demand results not only from increase in mail volume, but from greater distances to travel in reaching new buildings on the campus.
2. The space requirements within the substation for sorting the tremendous volume of dormitory mail, working of mail to the substation boxes and sorting of parcels, papers and flats for delivery to academic and administrative departments. The present facilities simply provide inadequate space to handle the volume received.

The personnel problem mentioned above can be handled, but the space problem cannot be so easily resolved. The College has investigated through its architects and possibility of expanding the substation facilities. This can be accomplished only by absorbing one of the few air conditioned classrooms, but the demand for classrooms is too critical for this to be feasible.

The efficient handling of U. S. mail is a mutual problem of the Post Office Department and Texas Technological College, and since the College is presently unable to provide corrective measures, a request for assistance from the Post Office Department is necessary. Texas Technological College, therefore, requests:

1. That all U. S. mail, exclusive of registered, insured and certified items addressed to residents of the College dormitories, be delivered by the Post Office Department directly to the dormitories, once a day six days per week.
2. That outgoing mail from the dormitories be picked up by the Post Office Department at the time regular deliveries, as requested above, are made.

-2-

Post Office Department

September 30, 1960

3. That dormitory mail, as described (1) above, when undeliverable because of the dormitories being closed, be held in the Lubbock Post Office until delivery can be made. A schedule of the closed dates can be furnished six months in advance.
4. That registered, insured and certified mail, addressed to residents of the College dormitories, be delivered by the Post Office Department to the Texas Tech substation from where proper delivery will be completed.
5. That parcel post items, addressed to the College Library or College Bookstore, be delivered by the Post Office Department directly to the respective buildings.
6. That the Post Office Department continue to provide delivery of other mail to the Texas Tech substation, three deliveries per day five days per week, two deliveries on Saturdays, and one delivery on Sundays.

The granting of the above requests will enable the Texas Tech substation to properly handle incoming mail. It will also, by lightening the parcel delivery burden on College personnel, enable them to capably handle campus deliveries. The continuation of the above described deliveries per day to the substation will contribute greatly toward keeping the volume handled at one time within the physical capacity of the substation, and allow College personnel to maintain the level of campus delivery presently provided.

Texas Tech sincerely trusts that this request will be favorably received and that corrective measures will be implemented as soon as possible. The Vice President and Comptroller's Office will be happy to work with the Post Office in working out any details or furnishing any further information.

Respectfully submitted,

M. L. Pennington
Vice President and
Comptroller

R. C. Goodwin
President

cc:

Mr. S. T. Cummings
Mr. John G. Taylor
Mr. D. M. McElroy
Mr. Claude H. Peak

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
and Comptroller

September 21, 1960

M E M O R A N D U M

TO: Mr. Nolan E. Barrick

SUBJECT: POULTRY FACILITIES

Dean Thomas and I have agreed on the following types of structures for the poultry facilities:

1. The use of sill-type construction in all buildings, being sure to construct a basic shell which will provide the maximum amount of inside flexibility in order to adjust to changing trends and conditions over the years.
2. Construct three buildings with metal roofs and one with plywood. The metal is to be the extremely reflective white steel and the latest and most improved available.
3. The laboratory, office and turkey building is to have a metal roof and be insulated against the metal in the same manner as that in the Horticulture Building.
4. The replacement chicken house is to have a metal roof without insulation.
5. The broiler house is to have a metal roof with insulation installed against the roof.
6. The hen house is to have a plywood roof. If the plywood roof should not work out satisfactorily in future years, a metal roof can be installed over the plywood or insulation added under it.

It is believed that the above arrangements will provide sound buildings and yet provide some information that is badly needed.

Will you please prepare the plans accordingly.

/s/ M. L. Pennington

M. L. Pennington
Vice President and
Comptroller

MLP:g

cc: Dean Gerald W. Thomas
Dr. Ralph Durham
President R. C. Goodwin
Mr. E. J. Urbanovsky

Campus Planning Committee
October 5, 1960
Attachment No. 263
Item 1313-A

ASSOCIATED ARCHITECTS & ENGINEERS OF LUBBOCK

3134 THIRTY FOURTH

LUBBOCK, TEXAS

September 9, 1960

Nolan E. Barrick
Supervising Architect
Texas Technological College
Lubbock, Texas

Re: Addition to Science Building

Dear Nolan:

We are proposing the following schedule for planning the subject project. I believe it can be met unless circumstances unknown at this time develop. There was serious doubt among all concerned that this project would proceed at this time, and we had not made any plans for its production this fall. Some members of our association have working drawing commitments that could last until December, but efforts will be made to follow this schedule as closely as possible, in order that the new facility can be occupied in the spring semester of 1962.

Preliminary studies from this date until October 7, 1960, ready for presentation to the Campus Planning Committee on or about the 10th of October.

Presentation of preliminary drawings to Building Committee on October 20th, prior to the Board meeting of October 21.

Production of working drawings and specifications within the 10 week period between October 24 and December 21. (It would be possible if you desire, to present fairly complete working drawings and specification drafts to the Board at their meeting on December 10.)

Plans out to bidders during the first week of January, 1961, with the bid opening scheduled approximately the 1st of February 1961. (This schedule in order for the Board to approve contracts at their meeting on February 11 if desired)

A construction period of 12 months would allow occupancy for the second semester beginning sometime in February, 1962. We believe this schedule for construction is possible, however if this occupancy is critical we would recommend that liquidated damages be incorporated in the contract documents.

Should you have any questions relative to the above, please let us hear from you. If it appears to be satisfactory, we would like to schedule a presentation to your Campus Planning Committee on or about the 10th of October, for review of preliminaries.

Very truly yours,

ASSOCIATED ARCHITECTS & ENGINEERS OF LUBBOCK

/s/ Howard W. Schmidt

Howard W. Schmidt, AIA

HWS/lb

cc: Stiles, Roberts & Messersmith
McMurtry and Craig

Campus Planning Committee
Attachment No. 264
Item 1315-C

TEXAS TECHNOLOGICAL COLLEGE
Department of Physical and Health Education
Lubbock, Texas

October 3, 1960

Mr. Marshall Pennington, Comptroller
Texas Technological College
Campus

Dear Mr. Pennington:

This letter is to confirm our telephone conversation of October 1 concerning tennis courts. It is the unanimous decision of the staff members of this Department that we prefer two concrete tennis courts rather than six asphalt courts. Our years of experience with asphalt courts lead us to believe that it would be a great mistake to build courts that would have to be resurfaced continuously. In addition, for the safety of the players alone, concrete courts are far superior.

We hope that in the future we shall be able to add more concrete courts. From the long range standpoint, we believe that having two concrete courts is good economy, as we shall have facilities that require little maintenance and that will be permanent.

Thank you for all the help you have given us.

Very truly yours,

/s/ Mary B. Dabney

Mary B. Dabney, Head
Department of Physical Education
for Women

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 92 October 18, 1960

A meeting of the Campus Planning Committee was held on Tuesday, October 18, 1960, at 1:30 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1316. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Colonel West, the Minutes of Meeting No. 91 were approved.

1317. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meetings Nos. 90 and 91 on October 11, 1960.

1318. Agricultural Plant Sciences Building

Mr. McElroy presented a list of equipment for the Agronomy and Horticulture and Park Management Departments that totaled approximately \$53,000. In the discussion that followed, it was revealed that a good bit of the request is for laboratory tables and other items which are considered to be part of the building rather than equipment. Mr. McElroy is to photo duplicate the lists, place them in the hands of the CPC members tomorrow (October 19, 1960), the members are to study the requests and make a recommendation to the Building Committee at a meeting to be held after the bid opening on Thursday afternoon, October 20, 1960.

1319. Central Chilling Station

Mr. Barrick reported on the studies to date. Information has been obtained from the manufacturers of all three types of cooling towers and studied. Mr. Robert L. Mason and Mr. Ray Downing feel that the ceramic tower would be by far the most economical in the long run and recommend that it be selected, if at all possible. Not a great deal of information is known about the plastic tower. However, a great deal is known about the ceramic tower and one is installed in the Classroom-Office Building. Mr. Jack Roberts of Zumwalt and Vinther agrees with the recommendation of Mr. Mason and Mr. Downing. He has made a study of the maintenance costs of the three types and his letter dated October 18, 1960, is attached to and made a part of the Minutes. (Attachment No. 265, page 746)

The base specifications provide for a ceramic tower and additional funds would not need to be added to the project if the ceramic tower is accepted. There would not be a great deal of savings in the other installations as some of the difference in cost would be required to make some changes to accommodate other types of towers.

After careful consideration, the CPC voted to recommend the installation of the ceramic tower in the central chilling station to be located in the Student Union Building.

1320. Library

A. Alternates

The six months alternates can be handled at the December 10, 1960, Board meeting. There is nothing that needs to be done on the alternates at the next meeting of the Board on October 21, 1960.

B. Solar Screen

Colonel West has installed the platform and the solar screen sample is being erected. It will be ready for Board inspection on Friday, October 21, 1960.

1321. Meats LabScales

Mr. McElroy reported that the following bids have been received:

Apache Engineering and and Manufacturing Company Lubbock, Texas	\$1,449.00
Toledo Scale Company Lubbock, Texas	1,621.55
Faust Scale Company Lubbock, Texas	2,172.00

Discussion revealed that the low bid will not provide scales of the quality requested in the bids. Also, there is some question that the bidder would be able to service the scales over the years.

After very careful consideration, the CPC voted to recommend the purchase of the Toledo scales as it seemed to represent the best dollar investment for the College. It is essential that the scales be selected as soon as possible as the contractor cannot finish pouring the slab until he knows the dimensions of the scales to be secured. The recommendation is to be made to the Building Committee at the meeting on Friday.

1322. Other ItemsBuildings X-1, X-2, X-5

No bids have been received for the sale of the buildings so far, although interest has been expressed by four people. More information will be available by the time of the Board meeting.

1323. Relocation of Farm FacilitiesA. Dairy Facilities

Attempts are still being made to work in a suitable tile roof as an alternate for the project.

B. Poultry Facilities

The preparation of the plans and specifications are in process but will not be completed in time for the Board meeting on Friday, October 21, 1960.

1324. Science Building

At 2:00 p.m. Mr. Schmidt, Mr. McMurtry and Mr. Messersmith entered the meeting to discuss the plans on the Science Addition.

They presented the preliminary plans and specifications, proposed elevations and floor plans. It was agreed to recommend that the Project Architects present the developments to the Building Committee at the meeting on Friday of this week at 9:00 a.m. and to the Board that afternoon, if the Building Committee wishes.

The Project Architects left the meeting at 3:15 p.m.

1325. Walks, Drives, and Parking LotsA. Curb, Gutter and Paving Northeast Corner of Women's Gymnasium

The Building Committee will be requested to recommend to the Board of Directors the final acceptance date of September 27, 1960, for the project.

1325. Walks, Drives, and Parking Lots (continued)B. Walks

Mr. Gosdin entered the meeting at 1:30 p.m. to assist Mr. Urbanovsky in the presentation of the needs and plans for walks in the vicinity of the Women's Gymnasium, Knapp Hall, Doak Hall, Drane Hall, Computer-Architecture Building and south of the Science Building. Bids on a unit basis are due to be opened on Thursday afternoon of this week and it was agreed to withhold a recommendation until the bids are opened and a complete report and recommendation can be made to the Building Committee on need, quantities and costs.

1326. Women's GymTennis Courts and Outside Facilities

Bids are due at 2:00 p.m. on Thursday, October 20, 1960, and a recommendation for a contract award is to be made to the Building Committee on Friday at 9:00 a.m. It was agreed that the recommendation would be formulated after the bid opening on Thursday afternoon.

Mr. Gosdin left the meeting at 2:00 p.m.

M. L. Pennington
Chairman

The meeting adjourned at 4:40 p.m., the next meeting to be held immediately following the bid opening starting at 2:00 p.m. on Thursday, October 20, 1960.

Campus Planning Committee
Attachment No. 265
Item No. 1319

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

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

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

STUDY OF COOLING TOWERS

The enclosure for the cooling tower is provided in the Student Union Building contract. The enclosure was designed for use with the ceramic cooling tower. The space requirements for the plastic fill tower are similar. A rearrangement of the structural piers would be required; but no more piers would be needed. The treated wood tower would require some additional space and a redesign of the structure and appearance. This would cost slightly less or equal to the enclosure for the ceramic tower.

The estimated life of the various towers are in years:

	<u>Ceramic Fill</u>	<u>Plastic Fill</u>	<u>Treated Wood Fill</u>
Structure	50	20	20
Eliminators	25	15	20
Fan	20	20	20
Mechanical	15	15	15
Fill	50	50	20

The wood tower manufacturers feel their tower will last about 20 years overall. We agree and used \$13,000 cost in 20 years for maintenance. The Plastic Manufacturers estimate their cost at 5% in 15 years. The above data does not bear this out so we used \$10,000 in 20 years.

The cermaic tower manufacturers state that their tower will cost 5% in 50 years. This also does not agree with the above data; we feel it should be nearer \$6,000 in 20 years, which we used.

We have made no attempt to evaluate the inflation of prices through the years; the cost of interest; or the value of investment.

The plastic and wood towers will both burn and as such increase the hazard to the building. The ceramic tower will not burn; therefore, it has some added value to consider here.

Due to the long life expectancy and the fireproof nature, we recommend the use of the ceramic tower.

Yours very truly,

ZUMWALT AND VINTHER

/s/ Jack F. Roberts

Jack F. Roberts
Resident Engineer

JFR:bv (g)

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 93 October 20, 1960

A meeting of the Campus Planning Committee was held on Thursday, October 20, 1960, at 2:30 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1327. Agricultural Plant Sciences

The CPC carefully considered the revised request for equipment, a good bit of which will be capitalized as part of the building, from the Departments of Agronomy and Horticulture and Park Management at a total estimated cost of \$51,808. The original request totaled \$69,000. The recommended list and the estimated cost is attached to and made a part of the Minutes. (Attachment No. 266, page 751)

The recommended amounts in the various categories are:

Office Furniture and Equipment for	
Both Departments - - - - -	\$ 6,930
Horticulture and Park Management	
Instructional Equipment- - - - -	3,525
Agronomy Instructional Equipment- - - - -	5,506
Agronomy Laboratory Equipment - - - - -	11,717
Horticulture and Park Management	
Laboratory Equipment- - - - -	3,394
Millwork Deducted from Original Contract	8,640*
Agronomy Storage Units and Special	
Equipment - - - - -	4,494
Horticulture and Park Management Storage	
Units and Special Equipment - - - - -	166
General Classroom Equipment - - - - -	<u>1,061</u>
Total - - - - -	<u>\$45,433</u>

*The amount is that deleted from the Construction Contract. If the contractor will not accept the amount, it will be rebid.

1328. Financial Report

The revised Financial Report was to have been a part of the Minutes of Meeting No. 92 but was inadvertently omitted. It is attached to and made a part of the Minutes of this meeting. (Attachment No. 267, page 752)

1329. Other ItemsBuildings X-1, X-2, X-5

Not all of the bids are in yet but, in order to be able to sell the buildings when the bidding is complete, the CPC voted to request permission of the Building Committee and the Board to sell the buildings to the highest bidder and at prices not lower than the following:

X-1 - - - - - \$1,500

X-2 - - - - - 500

X-3 - - - - - 1,000

The prices are the best received to date.

1330. Walks, Drives and Parking LotsA. Walks

On September 26, 1960, at 2:00 p.m., competitive bids were opened and read aloud in Room 120 of the Administration Building in the presence of 14 interested persons. The bids were taken on a unit price basis and are attached to and made a part of the Minutes. (Attachment No. 268, page 753)

Following a study of the plot plans and a thorough discussion, the CPC voted to recommend the award of the following contract to Mr. Elmer Calhoun of Lubbock, the low bidder, at a cost of 34.25 cents per square foot for 4" walks and 40.90 cents per square foot for 5" reinforced walks, the final amount is to be determined by an actual measurement of the walks installed:

Area #1 (Women's Gymnasium Area)

Walks adjacent to new Women's Gymnasium to serve this building and connect to walks in adjacent areas.

5" reinforced 4760 sq. ft. @ .4090 \$1,947

4" not reinforced 6100 sq. ft. @ .3425 2,095

\$4,042.00

(The service drive in this area was built at a cost of \$3,867.30. A fund of \$6,600 was originally set up for this project which leaves a balance of \$2,732.70).

Area #2 (Doak and Drane Halls)

Walks to be poured over existing tunnels which are below grade and adjacent to new service drive.

4" not reinforced 4600 sq. ft. @ .3425 \$1,575.50

5" reinforced 240 sq. ft. @ .4090 98.16

Fill over tunnel to be done by Grounds Department at no charge. -0-

Raising of 2 manholes in existing tunnel by Building Maintenance Department, labor only

-0-

\$1,673.66

1330. Walks, Drives and Parking Lots (continued)Area #3

Walks adjacent to curb and gutter of street running directly west of the Administration Building to parking lot and along the east side of new "Pay Parking Lot"

4" not reinforced 4850 sq. ft. @ .3425 \$1,661.13

Area #4

Computer-Architecture, West Engineering and Classroom-Office Building walks are to serve Computer-Architecture Building from West Engineering and Classroom-Office Building. New walks will be needed along service drive west of Engineering Building at a later date when grades and drainage are worked out.

4" not reinforced 5820 sq. ft. @ .3425 \$1,993.45

5" reinforced 3750 sq. ft. @ .4090 1,280.17

\$ 3,273.62

Total - - - - - \$ 10,650.41

Of the total amount, the sum of \$9,049.30 is to be charged to Constitutional Building Amendment Funds budgeted for Walks, Drives, and Parking Lots, \$1,096.00 to Knapp Hall and \$505.20 to Drane Hall.

B. Removal of Paving, Caliche Base, Curb and Gutter

Bids were taken by Mr. Urbanovsky and Mr. Gosdin to remove 2,000 square yards of paving, caliche base, and curb and gutter from the road that ran between the West and Textile Engineering Buildings and behind West Engineering.

The bids were as follows:

Joel Austin \$ 950.00
Dirt and Paving, Inc.
Lubbock, Texas

Pioneer Pavers, Inc. 1,200.00
Lubbock, Texas

Bill Hood No Bid
Dirt and Paving Contractor
Lubbock, Texas

As the material must be removed in order for the contractor to finish cleaning at the Computer-Architecture Building, the CPC voted to recommend that the contract be awarded to Joel Austin, Dirt and Paving, Inc., of Lubbock, in the amount of \$950.00, the amount to be paid from the Constitutional Building Amendment Funds budgeted for Walks, Drives and Parking Lots.

1331. UtilitiesWater Lines

In studying the installation of the tennis courts at the Women's Gym, it developed that it is necessary to reroute the 6" water line that would be under the tennis courts. Mr. Urbanovsky and Mr. Gosdin had checked for bids and the lowest offered to remove the line or

1331. Utilities (continued)Water Lines

abandon and plug the existing line and install a new transite line was \$1,150. Discussion revealed that the College can do the work cheaper. There is approximately 370' of line to install.

After discussion, the CPC voted to abandon the existing line, plug it and to reroute the line by using new transite pipe and recommended that an amount not to exceed \$900 be appropriated from Constitutional Building Amendment Funds to buy the necessary transite pipe, the installation to be made by the Department of Grounds with help from the Department of Building Maintenance.

1332. Women's GymA. Tennis Courts

At 2:00 p.m. on August 20, 1960, bids were opened and read aloud in Room 120 of the Administration Building in the presence of 16 interested persons. The plans and specifications had been prepared by the Office of the Landscape Architect and provide for four concrete tennis courts of the caliber of the men's courts only they will be smaller and require less fence. The plans and specifications were approved by the Head of the Department of Physical Education for Women. Elmer Terry of Lubbock was the low bidder in the amount of \$15,300 for the four courts. The bids are attached to and made a part of the Minutes. (Attachment No. 269, page 754)

As Mr. Terry is not known to any members of the CPC, a check was made of his ability and financial resources. The check revealed that he is financially sound; has a good credit rating; worked on the Air Terminal Addition; has done work for the City of Lubbock, Public Schools, and Highway Department. He is responsible and dependable and his work is entirely satisfactory. Mr. Urbanovsky went with him to the men's courts and showed him the finish that is required. Mr. Terry assured Mr. Urbanovsky that he will finish the courts equally as well. He has done work for a number of local contractors and those contacted said that his work was good and they knew of no reason for not accepting him as a contractor. It was concluded that Mr. Terry would be acceptable as a contractor for the courts.

After careful consideration, the CPC voted to recommend the award of a contract to Mr. Terry in the amount of \$15,300 for the four courts, the amount to be paid from Constitutional Building Amendment Funds.

B. Final Acceptance

The CPC voted to recommend October 4, 1960, as the date of final acceptance for the project.

C. Extension of Completion Time

The CPC voted to recommend an extension of 7 days to the completion time for the bad weather experienced during the past winter. It is felt that more time was lost and could be claimed due to bad weather. The extension will allow the contractor to finish within the designated time with two days to spare.

M. L. Pennington
Chairman

The meeting adjourned at 5:20 p.m. The next meeting is to be at 9:00 a.m. on October 21, 1960, with the Building Committee of the Board.

Campus Planning Committee
Attachment No. 266
Item 1327

EQUIPMENT LIST FOR
AGRICULTURAL PLANT SCIENCES BUILDING

FACULTY OFFICE FURNITURE AND EQUIPMENT

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost</u>
1	Double pedestal desk	18	\$135	\$2,430
2	Swivel chair	18	35	630
3	Side chair with arms	41	22	902
4	Side chair without arms	28	18	504
5	Double pedestal desk with typewriter platform	2	145	290
6	Single pedestal desk	3	100	300
7	Posture chair	3	35	105
8	File cabinet, 4 drawer, letter size	10	45	450
9	Table, 30" x 43"	19	50	950
10	Table, conference	1	175	175
11	Typewriter table	2	22	44
12	Tables, 39" x 60"	2	75	150
			Subtotal	\$6,930

HORTICULTURE AND PARK MANAGEMENT INSTRUCTIONAL EQUIPMENT

13	Projection screen, 84" x 84"	3	55	165
14	Projector, moving picture with sound	1	465	465
15	Projector, slide	2	105	210
16	Projector, opaque	1	285	285
17	Projection screen, ground glass view	1	200	200
18	Binocular microscope and lamp	1	350	
		2	200	750
19	Colorimeter	1	250	250
20	Electric PH meter	1	300	300
21	Refractometer, hand	1	200	200
22	Mettler balance	1	600	600
23	Drying oven	1	100	100
			Subtotal	\$3,525

AGRONOMY INSTRUCTIONAL EQUIPMENT

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost</u>
24	Projection screen, 52" x 52", with tripod	1	\$ 51	\$ 51
25	Projection screen, 72" x 72", mounted on wall	2	52	104
26	Gamet precision divider for grain and seed	1	225	225
27	Purity work board	8	18	144
28	Germinator, day and night	1	1,600	1,600
29	Binocular scopes	5	350	1,750
30	Automatic stirrer	1	100	100
31	Water bath, multiple, copper, electri- cally heated	1	110	110
32	Shaking machine, flask and bottle dual reciprocating	1	145	145
33	Shaking machine sieve	1	200	200
34	Combustion furnace with accessories	1	177	177
35	Student flame photometer	1	450	450
			Subtotal	<u>\$5,056</u>

AGRONOMY LABORATORY EQUIPMENT

36	Room 207 - Student worktable, 30" x 96", formica tops	11	62*	686
37	Room 211 - Student worktable, 30" x 72", formica tops	12	49	588
38	Room 209 - Student worktable, 24" x 72", formica tops	10	44	440
39	Rooms 209 and 211 - Instructor's table	2	30	60
40	Room 213 - Laboratory table, 2'6" x 18'	6	468	2,808
41	Room 215 - Laboratory table, 4' x 16'	3	1,023	3,069
42	Room 216 - Laboratory table, 3'6" x 18'	3	636	1,908
43	Room 217 - Laboratory table, 4' x 18'	1	1,030	1,030
44	Room 208 - Storage table, 2' x 12', formica top, 1 shelf	1	72	72
45	Laboratory stool, 18" high	176	6	<u>1,056</u>
			Subtotal	<u>\$11,717</u>

* Actual \$62.40. Cents dropped to use round dollars.

-3-

HORTICULTURE AND PARK MANAGEMENT LABORATORY EQUIPMENT

Item	Description	Quantity	Unit Price	Cost
46	Room 115 - Drafting table, 4' x 6'	24	60	\$1,440
47	Room 110 - Student table, 30" x 108" masonite tops	10	52	520
48	Room 112 - Student table, 2'6" x 9', masonite tops	12	52	624
49	Drafting stools, 30" high	24	6	144
50	Laboratory stools, 18" high 30 @ \$15.00, 36 @ \$6.00	66	6	<u>666</u>
	Subtotal			<u>\$ 3,394</u>

MILLWORK DEDUCTED FROM ORIGINAL CONTRACT

51A	Cabinet units in offices 104, 109, 125, 126, 127, 128, 129, 205, 218, 229, 230, 232, 233, 234, 235, 236, 237, 238			
B	Shelving in 135, 132, 111			
C	Cabinets in 105			
D	Counters in 204, 206			
E	Counters and cabinets in 207, 209, 211, 215, 216			8,400
52	Pegboard in 110, 112, 113, 117			<u>240</u>
	Subtotal			<u>\$8,640</u>

AGRONOMY STORAGE UNITS AND SPECIAL EQUIPMENT

53	Cabinet unit in office 231	1	150	150
54	Part-A-Hood	1	540	540
55	Fume hood	3	1,170	3,510
56	Room 209 - acid resisting sink and drainboards	1	294	<u>294</u>
	Subtotal			<u>4,494</u>

HORTICULTURE AND PARK MANAGEMENT STORAGE UNITS AND SPECIAL EQUIPMENT

57	Room 111 - cabinet, sink, and drainboard (By Bldg. Maintenance)			No Charge
58	Room 112 - storage unit	1	166	<u>166</u>
	Subtotal			<u>\$ 166</u>

GENERAL CLASSROOM EQUIPMENT

59	Tablet arm chairs	85	11	935
60	Instructor's table	2	30	60
61	Instructor's chair	2	18	36
62	Lectern	2	15	<u>30</u>
	Subtotal			<u>\$ 1,061</u>

TOTAL - - - - - \$44,983

Campus Planning Committee
Attachment No. 267
Item 1328

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

REVIEW OF
CONSTITUTIONAL BUILDING AMENDMENT FUNDS
October 20, 1960

Funds Available July 31, 1960	\$ 8,385,138
Estimated Investment Income to August, 1961	150,000
Total Funds August, 1961 (Estimated)	<u>\$ 8,535,138</u>

<u>Building</u>	<u>Revised Original Cost Estimate</u>	<u>Summary Actual, Estimated or Original Estimate</u>
Steam Boiler and Housing	\$ 250,000	\$ 232,796(c)
Classroom-Office	1,118,000	1,045,667(c)
Textile Engineering	290,000	293,206(c)
Science Addition	525,000	525,000(a)
Library (See Exhibit I F)	1,825,000	2,145,248(c)
Physical Plant and Press (1)	535,000	522,589(c)
Mechanical Engineering Shops (1)	315,000	314,281(c)
Women's Gymnasium	250,000	289,411(c)
Computer-Architecture (2)	645,000	681,712(c)
Speech (See Exhibit I A)	117,000	117,000(n)
Relocation of Farm Facilities (3) (See Exhibit I B)	375,000	375,000(p)
Chemical Engineering (5)	324,895	324,895(c)
Nuclear Reactor (2) (5)	180,105	180,105(s)
Agricultural Plant Sciences	375,000	379,622(c)
Psychology (3)	175,000	175,000(n)
TV Station	100,000	100,000(n)
Equipment for Buildings (See Exhibit I C)	415,000	415,000(p)
Utility Extensions (4) (See Exhibit I D)	420,000	505,523(p)
Walks and Drives (4) (See Exhibit I E)	80,000	80,000(p)
Tennis Courts		10,548(c)
Deep Soil Test		3,290(c)
Total	\$8,315,000	<u>\$8,715,893</u>
Balance		<u>\$ (180,755)</u>

- (1) \$40,000 transferred to Mechanical Engineering Shops from Physical Plant.
 (2) \$20,000 transferred to Computer-Architecture from Chemical Engineering and Nuclear Reactor for air conditioning.
 (3) \$100,000 transferred to Psychology from Relocation of Farm Facilities.
 (4) \$270,000 transferred to Utility Extension from Walks, Drives, and Parking.
 (5) Original appropriation of \$505,000 prorated on basis of Chemical Engineering contract.
- (a) Architects working on plans.
 (c) Completed or under contract.
 (n) No definite action taken on revised original appropriation.
 (p) Partially contracted or recommended, final cost undetermined.
 (s) Study and recommendations required.
- () Red Figure.

EXHIBIT I

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES

A. Speech

Appropriation		\$117,000
Stage at Dairy Barn (b)		<u>56,000</u>
Balance		<u>\$ 61,000</u>

B. Relocation of Farm Facilities

Appropriation		\$375,000
Meats Lab (c)	\$217,333	
Dirt Fill (c)	8,000	
Moving Feed Mill (c)	498	
Agronomy and Horticulture Metal Buildings (c)	24,509	
Dairy Facilities (a)	85,000	
Poultry Facilities (a)	24,000	
Livestock Facilities (e)	<u>15,660</u>	<u>375,000</u>
Balance		<u>\$ -0-</u>

C. Equipment for Buildings

Appropriation		\$415,000
Textile Engineering Building (c)	\$ 7,807	
Classroom-Office Building (c)	63,432	
Women's Gymnasium (c)	13,436	
Architecture (c)	<u>30,849</u>	<u>115,524</u>
Balance		<u>\$299,476</u>

D. Utility Extensions

Appropriation		\$420,000
Classroom-Office Building (c)	\$ 1,290	
Farm Residences Water Lines (c)	5,207	
Air Conditioning Survey (c)	7,500	
Agricultural Plant Sciences (c)	5,355	
Mechanical Engineering Shops (c)	6,783	
Telephone Conduit in West Engineering Area (c)	340	
Storm Sewer to 19th and College (b)	6,000	
6" Tap and 4" Meter (c)	1,275	
Switchgear and Expansion Joints (c)	38,825	
Electrical Extensions (c)	88,457	
Tunnel Extensions (c)	225,179	
Central Chilling Station Space (c)	26,884	
Water Lines and Sprinklers (b)	7,300	
Sewer Reroute at Library (c)	2,314	
Central Chilling Station Unallocated Equipment (c) (u)	56,024	
Relocation of Farm Facilities (e)	25,000	
Advertising for Bids (c)	70	
Electrical Switch House (c)	<u>1,720</u>	<u>505,523</u>
Balance		<u>\$(85,523)</u>

() Denotes red figure.

EXHIBIT I - Page 2

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES (continued)

E. Walks, Drives and Parking Areas

Appropriation		\$ 80,000
West 14th Street, North of Textile (c)	\$ 7,363	
Women's Gymnasium Drive (c)	<u>3,718</u>	<u>11,081</u>
Balance		<u>\$ 68,919</u>

F. Library

Appropriation		\$1,825,000
General Contract (c)	\$1,810,116	
Elevator Contract (c)	66,360	
Architect's Fee (c)	97,044	
Air Conditioning Equipment (c)	107,324	
Finish North or South Basement (c)	<u>64,404</u>	<u>2,145,248</u>
Balance		<u>\$(320,248)</u>

- (a) Architects working on plans.
- (b) Approved by Board but not contracted.
- (c) Completed or under contract.
- (e) Estimated cost.
- (u) Allocated Costs, \$107,324 to Library, \$51,301 to Student Union
Total Cost, \$214,649.
- () Denotes red figure.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

POSSIBLE ALLOCATION OF CONSTITUTIONAL BUILDING AMENDMENT FUNDS

		<u>Available Balance</u>
Available Balance <u>IF</u> :		
Priority list is completed as contracted, recommended or originally estimated		\$(180,755)
The following unstarted projects are deleted, and suggested transfers made:		
TV Station	\$100,000	
Nuclear Reactor	180,105	
Unused balance in Speech	61,000	
Transfers from Student Union (a)	<u>91,301</u>	<u>\$432,406</u> \$251,651
Additional equipment needs are added (b)	\$150,000	\$101,651
Psychology is increased to estimated needs	\$200,000	\$(98,349)

- (a) \$40,000 for utilities and \$41,301 for air conditioning mechanical equipment.
- (b) Library and Agricultural Plant Sciences equipment needs will cause equipment cost to exceed original estimate.
- () Denotes red figure.

Campus Planning Committee
Attachment No. 268
Item 1330-A

TABULATION OF BIDS FOR CONSTRUCTION OF SIDEWALKS

Bids opened at 2:00 p.m. Sept. 26, 1960

CONTRACTOR	BID BOND	4 Inch Concrete Unreinforced Per Square Foot	5 Inch Concrete Unreinforced Per Square Foot
W. B. Abbott Co., Inc.	Yes	35.5 Cents	44.0 Cents
H. R. Bundock, Inc.	Yes	39.0 Cents	48.0 Cents
Elmer Calhoun	Yes	34.25 Cents	40.90 Cents
Frank Hodges	Yes	37.5 Cents	46.0 Cents
Kerr Paving Company	Yes	46.0 Cents	54.0 Cents

Campus Planning Committee
Attachment No. 269
Item 1332-A

TENNIS COURTS - WOMEN'S GYMNASIUM

(Bid Opening at 2:00 p.m., October 20, 1960,
in Room 120, Administration Building)

Contractor	Bid Bond	Base Bid	Completion Date
W. B. Abbott and Company	x	\$18,087	45 days
H. R. Bundock, Inc.	x	16,000	Dec. 31
Frank Hodges	x	17,673	Nov. 30
Reviere Construction Co.	x	16,815	Nov. 30
Elmer Terry Const. Co.	x	15,300	Dec. 31
James E. Walker Company	x	17,499	Dec. 15
Welch Brothers, Inc.		16,500	Nov. 28

PROPOSED AGENDA FOR THE JOINT MEETING OF THE BUILDING COMMITTEE
AND THE CAMPUS PLANNING COMMITTEE TO BE HELD AT 9:00 A.M.
OCTOBER 21, 1960, IN THE OFFICE OF THE PRESIDENT

1333. Agricultural Plant Sciences Building

A. Equipment

Consider the CPC recommendations for the following:

OK
B.C.

1. <u>Office Furniture and Equipment</u> - - - - -	\$6,930
2. <u>Horticulture and Park Management</u> <u>Instructional Equipment</u> - - - - -	3,525
3. <u>Agronomy Instructional Equipment</u> - - - - -	5,506
4. <u>Agronomy Laboratory Equipment</u> - - - - -	11,717
5. <u>Horticulture and Park Management</u> <u>Laboratory Equipment</u> - - - - -	3,394
6. <u>Millwork Deducted from Original Contract</u> - - - -	8,640*
7. <u>Agronomy Storage Units and Special</u> <u>Equipment</u> - - - - -	4,494
8. <u>Horticulture and Park Management Storage</u> <u>Units and Special Equipment</u> - - - - -	166
9. <u>General Classroom Equipment</u> - - - - -	<u>1,061</u>
Total- - - - -	<u>\$45,433</u>

*The amount is that deleted from the Construction Contract.
If the contractor will not accept the amount, it will be
rebid.

A photo duplicated copy of the list of items is attached.

If approved, payment will be made from Constitutional Building
Amendment Funds budgeted for equipment although quite a few
items will be capitalized as part of the building.

1334. ✓ Central Chilling Station

OK

Consider recommendation of the CPC to install ceramic cooling tower in the central chilling station to be located in the Student Union Building. The base bid provides for a ceramic tower so no new funds will be needed.

1335. ✓ Library

OK

Solar Screen

Consider solar screen sample installed to the south of the new Library.

set-up for steel
deferred action on inserts - until one of wells - nearly up -
approved of solar screen - & appointed concrete columns - sub. of masonry tread for steps - rather than concrete, save money for use elsewhere.

1336. ✓ Meats LabScales

Consider recommendation of the CPC to purchase Toledo scales in the amount of \$1,621.55 to be charged to equipment for the building.

1337. ✓ Other ItemsBuildings X-1, X-2, X-5

Consider the recommendation of the CPC to sell the buildings to the highest bidder as soon as the bidding is completed at prices not lower than the following:

X-1 - - - - -	\$1,500
X-2 - - - - -	500
X-5 - - - - -	1,000

The prices are the best received to date.

1338. ✓ Science Building

Consider preliminary plans and specifications, proposed elevations and floor plans to be presented by the Project Architects.

1339. ✓ UtilitiesWater Lines

Consider the recommendation of the CPC to appropriate an amount not to exceed \$900 for the purchase of new transite, 6" water line to reroute an existing line around the tennis courts at the Women's Gym. The installation will be made by the Department of Grounds with assistance from the Department of Building Maintenance. It is felt that at least \$250 can be saved by installing the line with college personnel.

1340. ✓ Walks, Drives, and Parking LotsOK A. Curb, Gutter and Paving Northeast Corner of Women's Gymnasium

Consider the CPC recommendation for final acceptance of the project as of September 27, 1960.

B. Walks

Consider the CPC recommendation to award a contract to Mr. Elmer Calhoun of Lubbock, the low bidder, to construct the following concrete walks:

- OK
1. Area 1 (Adjacent to new Women's Gym and Knapp Hall) - - - - - \$4,042.09
 2. Area 2 (Vicinity of Doak and Drane Halls) - 1,673.66
 3. Area 3 (Between Agriculture Buildings and X-Buildings and on north side of street west to parking lot and along east side of parking lot) - 1,661.13
 4. Area 4 (Vicinity of Architecture-Computer Building, West Engineering Bldg., and Classroom-Office Bldg.) - - - 3,273.62
- Total - - - - - \$10,650.50

Of the total amount, it is recommended that \$9,049.30 be charged to Construction Building Amendment Funds budgeted for Walks, Drives, and Parking Lots, \$1,096.00 to Knapp Hall, and \$505.20 to Drane Hall.

The plans and specifications were prepared by the Office of the Landscape Architect and plot plans are available to show the proposed work.

C. Removal of Paving, Caliche Base, and Curb and Gutter

OK Consider recommendation of the CPC to award a contract in the amount of \$950 to Joel Austin, Dirt and Paving, Inc., of Lubbock, the low bidder, to remove 2,000 square yards of paving, caliche base, and curb and gutter from the road that ran between the West and Textile Engineering Buildings and behind West Engineering Building, the amount to be paid from Constitutional Building Amendment Funds budgeted for Walks, Drives, and Parking Lots.

1341. Women's GymA. Tennis Courts

OK
Consider recommendation of the CPC to award a contract in the amount of \$15,300 to Elmer Terry of Lubbock, the low bidder, to construct four concrete tennis courts in keeping with the plans and specifications prepared by the Office of the Landscape Architect, the amount to be paid from Constitutional Building Amendment Funds.

B. Final Acceptance

OK
Consider recommendation of the CPC to accept October 4, 1960, as the date of final acceptance for the project.

C. Extension of Completion Time

OK
Consider recommendation of CPC to grant the contractor an extension of 7 days for loss of time caused by bad weather last winter.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 94 October 21, 1960

A joint meeting of the Building Committee and the Campus Planning Committee was held on October 21, 1960, at 9:00 a.m. in the Office of the President. Members of the Building Committee present were Mr. J. Evetts Haley, Chairman, Mr. Harold Hinn and Mr. Wilmer Smith. Mr. Floyd A. Wooldridge, Board Member, was also present. Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy and Mr. John G. Taylor were present.

In order that the results of the meeting of the Board of Directors may be included in the Campus Planning Committee Minutes for record purposes, the action taken by the Board of Directors at the meeting on October 21, 1960, will follow that of the Building Committee for each item.

1333. Agricultural Plant Sciences Building

A. Equipment

Approved the lists of equipment in the following categories and amounts:

1. <u>Office Furniture and Equipment</u>	- - - - - \$ 6,930
2. <u>Horticulture and Park Management</u>	
<u>Instructional Equipment</u>	- - - - - 3,525
3. <u>Agronomy Instructional Equipment</u>	- - - - - 5,506
4. <u>Agronomy Laboratory Equipment</u>	- - - - - 11,717
5. <u>Horticulture and Park Management</u>	
<u>Laboratory Equipment</u>	- - - - - 3,394
6. Millwork Deducted from Original Contract	- - - 8,640*
7. <u>Agronomy Storage Units and Special</u>	
<u>Equipment</u>	- - - - - 4,494
8. <u>Horticulture and Park Management Storage</u>	
<u>Units and Special Equipment</u>	166
9. <u>General Classroom Equipment</u>	<u>1,061</u>
Total	- - - - - <u>\$45,433</u>

*The amount is that deleted from the Construction Contract. If the contractor will not accept the amount, it will be rebid.

Payment will be made from Constitutional Building Amendment Funds budgeted for equipment, although quite a few of the items will be capitalized as part of the building.

The detailed lists of equipment appear in the Minutes of Meeting No. 93 - Item No. 1327.

(The Board of Directors approved the action.)

1334. Central Chilling Station

Approved the installation of a ceramic cooling tower in the central chilling station to be located in the Student Union Building. The base bid provides for a ceramic tower so no new funds will be needed.

(The Board of Directors approved the action.)

1335. LibrarySolar Screen and Materials

Approved the solar screen sample and the unpainted concrete columns and the substitution of agredontread for steps rather than travertine. The agredon tread will be more economical and the money can be used elsewhere. Action was deferred on the selection and use of tile inserts in the solar screen and consideration will be made again at the December 10, 1960, Board meeting.

(The Board of Directors approved the action.)

1336. Meats LabScales

Approved the purchase of the Toledo scales in the amount of \$1,621.55, to be charged to equipment for the building.

(The Board of Directors approved the action.)

1337. Other ItemsBuildings X-1, X-2, X-5

Approved the recommendation of the Campus Planning Committee to sell the buildings to the highest bidder as soon as the bidding is completed at prices not lower than the following:

X-1 - - - - -	\$1,500
X-2 - - - - -	500
X-5 - - - - -	1,000

The prices are the best received to date.

(The Board of Directors approved the action.)

1338. Science Building

Approved the preliminary plans and specifications, proposed elevations and floor plans as presented by the Project Architects.

(The Board of Directors approved the action.)

1339. Utilities

Approved an amount not to exceed \$900 for the purchase of new transite 6" water line to reroute an existing line around the tennis courts at the Women's Gym. The installation will be made by the Department of Grounds with assistance from the Department of Building Maintenance.

(The Board of Directors approved the action.)

1340. Walks, Drives, and Parking LotsA. Curb, Gutter and Paving Northeast Corner of Women's Gymnasium

Approved the final acceptance date of September 27, 1960, for the installation.

(The Board of Directors approved the action.)

1340. Walks, Drives and Parking Lots (continued)B. Walks

Approved the award of a contract to Mr. Elmer Calhoun of Lubbock, the low bidder, to construct the following concrete walks:

1. Area 1 (Adjacent to new Women's Gym and Knapp Hall) - - - - - \$4,042.09
 2. Area 2 (Vicinity of Doak and Drane Halls) - - - - - 1,673.66
 3. Area 3 (Between Agriculture Buildings and X-Buildings and on north side of street west to parking lot and along east side of parking lot) - - - - - 1,661.13
 4. Area 4 (Vicinity of Computer-Architecture Building, West Engineering Building and Classroom-Office Building) - - - - - 3,273.62
- Total - - - - - \$10,650.50

Of the total amount, it is recommended that \$9,049.30 be charged to Constitutional Building Amendment Funds budgeted for Walks, Drives, and Parking Lots, \$1,096.00 to Knapp Hall, and \$505.20 to Drane Hall.

C. Removal of Paving, Caliche Base, and Curb and Gutter

Approved the award of a contract in the amount of \$950.00 to Joel Austin, Dirt and Paving, Inc., of Lubbock, the low bidder, to remove 2,000 square yards of paving, caliche base, and curb and gutter from the road that ran between the West and Textile Engineering Buildings and behind West Engineering Building, the amount to be paid from Constitutional Building Amendment Funds budgeted for Walks, Drives, and Parking Lots.

(The Board of Directors approved the actions.)

1341. Women's GymA. Tennis Courts

Awarded a contract in the amount of \$15,300 to Elmer Terry of Lubbock, the low bidder, to construct four concrete tennis courts in keeping with the plans and specifications prepared by the Office of the Landscape Architect, the amount to be paid from Constitutional Building Amendment Funds.

B. Final Acceptance

Accepted the date of final acceptance as October 4, 1960, for the project.

C. Extension of Completion Time

Granted the contractor an extension of 7 days for loss of time caused by bad weather last winter.

(The Board of Directors approved the actions.)

M. L. Pennington
Chairman

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 95 November 17, 1960

A meeting of the Campus Planning Committee was held on Thursday, November 17, 1960, at 2:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1342. Approval of Minutes

On motion by Colonel West, seconded by Mr. Urbanovsky, the Minutes of Meetings Nos. 92, 93 and 94 were approved with the following corrections:

Item No. 1340C - Change the name of the contractor from
Page 757 Joel Austin, Dirt and Paving, Inc., to
Joel Austin, Dirt Contractor.

Item No. 1327 - "Agronomy Instructional Equipment" from
Page 747 \$5,506 to \$5,056 and the total to
\$44,983.

Item No. 1333 - "Agronomy Instructional Equipment" from
Page 755 \$5,506 to \$5,056 and the total to
\$44,983.

1343. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meetings Nos. 88, 89 and 92 on October 20, 1960, and 93 and 94 on October 28, 1960.

1344. Agricultural Plant Sciences Building

A. Construction Progress

Mr. Barrick reported that the contractor is apparently on schedule.

B. Status of Equipment

Mr. McElroy reported that he is gathering specifications from the Department Heads for the submission of requisitions.

C. Extra for Millwork (\$8,640)

Mr. Barrick reported that the contractor has stated that he cannot do the millwork for the original figure of \$8,640 since the low bidder on millwork at the time is not on the job.

The plans and specifications are to be reworked and the millwork will be rebid in keeping with the approval of the Board of Directors.

1345. Boiler and Housing

Colonel West reported that the contractor has worked on the roof but it is not known if the leaks have been fixed. No request has been received for final acceptance of the housing.

The boiler is to be checked out after December 5, 1960, for acceptance.

1346. Central Chilling Station

Mr. Barrick reported that the architects have been notified of the action of the Board of Directors on the selection of the ceramic tower and that the contractor has been officially notified.

1347. Chemical Engineering BuildingConstruction Progress

Mr. Barrick reported that the structural frame is virtually complete. The prestressed concrete tees were set on the roof the past week. The contractor is on schedule.

1348. Classroom-Office BuildingA. Progress Report on Check List1. Chalkboards

Mr. Barrick reported that he has received a letter from the Project Architects and the paint contractor is to be in Lubbock on November 21, 1960, to discuss and study the needs and action to be taken on the chalkboards.

2. Windows

The windows which required caulking have been caulked.

3. Air Conditioning

No report has been received from the Project Architects yet on the corrections needed.

4. Sound Transmission

The fiber boxes were not satisfactory according to Dr. Nall. The Project Architects report that an acoustical consultant is to come to Lubbock after Thanksgiving to investigate and attempt to devise proper remedial actions.

5. Air Intake Screens

The method of applying paint to the air intake screens has been found satisfactory by Mr. Downing. His crew is to apply the paint to reduce the amount of free air space.

Colonel West reported that he has the springs on hand to hold the screens in place and will install them as soon as the application of paint has been completed and he can fit the work into his schedule.

6. Locks

The hardware supplier has gone over the entire building and replaced all defective inside locks. Exterior doors have been checked and defective cylinders have been replaced. As of this time, it looks as if this item has been corrected.

7. Project Architects Report

A copy of a letter dated October 17, 1960, from the Project Architects to Mr. Barrick, is attached to and made a part of the Minutes. (Attachment No. 270, page 770)

B. Roof Leaks

Mr. Barrick reported that he had a long session with Mr. L. W. Rampy of the Texas Roofing Company. Mr. Rampy assured Mr. Barrick that the leaks have been fixed but it is impossible to tell until it rains again.

Colonel West had contacted the Texas Roofing Company after the last rain. Some places were found in the flashing and other locations which were not properly sealed. The Company made repairs.

1348. Classroom-Office Building (continued)C. Bulletin Boards

Mr. McElroy reported that the bulletin boards have been received and are installed.

1349. Computer-Architecture BuildingA. Designation

Due to possible confusion which may result in class schedules, it was agreed to refer to the project as the Architecture-Computer Building rather than the Computer-Architecture Building. The Classroom-Office Building will appear in the class schedule as the C & O Building and if the designation of the Computer-Architecture Building is not changed, it would appear as the C & A Building. The possibility of confusion between the "Os" and "As" is felt to be sufficient justification to reverse the nomenclature.

B. Construction Progress

It is hoped that the final inspection can be started on November 18, 1960. Also, it is hoped that the Department of Architecture can begin to move into the building before Thanksgiving and finish shortly thereafter.

C. Equipment

The office furniture is on hand and delivery has been made on some of the other items. Some of the equipment is yet to be manufactured.

In the original request, the Department requested 100 drafting tables. However, the number was cut to 50 due to the estimated cost of \$50.00 per table. The low bid received for the base plus the top is approximately \$30.00.

It was agreed to recommend that the number of tables be increased from 50 to 75 in view of the original request.

Mr. Robert L. Mason entered the meeting at 2:45 p.m. and the items in which he is interested were discussed immediately thereafter, although each will appear in its proper place in the Minutes.

1350. Home EconomicsHome Management House and Nursery School

President Goodwin turned Dean Tinsley's request of November 9, 1960, to the Campus Planning Committee for recommendation. Dean Tinsley's letter is attached to and made a part of the Minutes. (Attachment No. 271, page 771)

The CPC agreed that the President's Home should be put to use, if practical, and that the possibility of use as a Home Management House, as requested by Dean Tinsley, justifies a very careful study and recommendation.

It was agreed that the question will be considered from the usual over-all standpoint of benefit to the College and that all members are to consider it and discuss the possibilities at a future meeting.

1350. Home Economics (continued)Home Management House and Nursery School

Some of the thoughts are as follows:

Is there any way to estimate how long the house would be available for use as a Home Management House?

Dean Tinsley would not like to waive the possibilities of a more appropriate Home Management House and Nursery School in the future so the time element will be important. The Board has expressed an interest in supplying a new Home Management House and Nursery School facilities. (Board Item No. 1002, February 14, 1959 - Item No. 1424, April 11, 1959)

If funds were available by 1966 or earlier, what would be the effect on the use of the President's Home for a Home Management House and the present Home Management House for a Nursery School?

Should consideration be given to abandoning the present house for the President and consider building another in the future? If so, due cognizance should be taken of the current thinking of the Legislature as President's homes are a very delicate issue.

How much remodeling, if any, would be necessary to adapt the house to use by Home Economics? How long would the furniture last with the increased use? Would Home Management want to use all of the existing furniture? Would there be enough? If five to eight years should pass before a new President might be interested in the home, would it be necessary to replace the furniture, rugs and other furnishings? There is no question but that it is better for a house to be occupied but would a dozen or so people in the house cause undue wear and tear and require major repair and renovation at the end of the period of occupation? Consideration should be given to the feeling of the Legislature when funds would have to be requested for refurnishing and renovating, at the end of the period, as a rather large amount could be difficult to obtain unless the tenor of the Legislature changes from that of the present time.

Will the program in the Home Management House and Nursery School be continued indefinitely? Is there any way to determine the number of students to be accommodated in the two programs in the future? Wouldn't it be well to get the number of students and the courses involved in the two programs for the past five years or so and the prediction of need by years in the future?

Many of the questions raised above will apply to the use of the present Home Management House for a Nursery School, particularly the remodeling. The question of distance for the parents to deliver the children to the school should be considered.

Wouldn't it be well to request that the proposed use of each of the two buildings be shown on a floor plan? The desired use of furniture should be explored and explained.

It is suggested that Dean Tinsley meet with the Chairman to discuss means of accumulating the needed information on which to base a recommendation.

1351. HousingA. Married Students

Nothing has been heard lately from Mr. L. L. Cain and Mr. W. H. Myers on developments since the last Board Meeting other than both seem to think that the project will become a reality.

B. Other

The Board of Directors, at the last meeting, "... requested the Campus Planning Committee to make a study, as rapidly as possible, on the estimated cost, the advantages, and the disadvantages of converting one of the Residence Halls now being used for men to a Residence Hall for Women. He further emphasized the necessity of making a decision concerning immediate and long-range housing plans for athletes and women students, and requested that this be included in the study to be made by the Campus Planning Committee."

The CPC agreed that the program must be considered as carefully as possible for the maximum benefit to the over-all college program and that a great deal of information will be needed on which to base a recommendation.

It was further agreed that steps must be taken immediately to begin the accumulation of needed information on the housing of athletes from other comparable institutions, particularly State schools. The type of housing, cost, methods of financing and advantages and disadvantages of various systems must be examined. The ability of the Athletic Department at Texas Tech to absorb increased expenditures will need to be included. The future program of the Athletic Department will be most important in constructing a recommendation.

The need of women students for additional housing will be a most important determining factor also. The housing need for both women students and athletes must be considered on a long range plan and, in a long range plan, additional housing for men must be considered. The fact that the College has more obligation, perhaps, to provide housing for women students than any other group is most important.

What is the College's obligation to provide housing for students? How far can the College financially afford to go in providing housing? Could or should there be a buffer against a possible economic depression and the resulting effect on long range financial obligations?

What effect on the over-all housing problem would result from leaving the athletes where they are and constructing housing for other students? How much should the Athletic Department pay for the facilities if allowed to use them in the future? What would be the ideal solution for athletics if there is one? Could the Athletic Department afford it? How much subsidization of the Athletic Department by the Residence Hall System, if any can be justified?

What is the schedule of timing? It has been pretty well agreed that there must be additional housing for women students by September, 1960, and the Office of Room Reservations and the Deans of Women must know well ~~in~~ ahead of that date, perhaps no later than January 1, 1961. The financial aspects must be examined from the standpoint of the Residence Halls also.

1351. Housing (continued)B. Other

The problem has been discussed at various times for a good many years and the proper solution will be most difficult to determine. However, efforts must commence at once in the quest for a solution.

1352. LibraryA. Construction Progress

The contractor is "going like a house afire."

B. Alternates

The College has until December 10, 1960, to take the alternates on which a six months' option exists. However, the contractor is moving so rapidly that the six months' time may be very tight. The Project Architects called today to request speeding up decisions in order not to hold up the contractor. Mr. Barrick had a lengthy long distance call from Mr. Pitts during the meeting and Mr. Pitts has a number of recommendations to present as part of the trading agreement he was authorized to pursue. ✓

The CPC agreed to request Mr. Pitts to make a formal recommendation on the many items for submission to the CPC. The CPC is to consult the President and the Chairman of the Building Committee on their wishes for handling as soon as the recommendation can be studied.

C. Solar Screen

Although approval of the Board of Directors for the use of tile inserts is scheduled for the meeting on December 10, 1960, it was agreed by the group that inspected the solar screen at the time of the last meeting, including the Project Architects and the contractor, that it would be better to delay a decision on the use of tile inserts until a large portion of the screen has been installed on the building. ✓

D. Request for an Extra for Dirt Hauling

Although he has requested an amount in writing, Mr. Barrick reported that he has received no word to date. The item will not appear again in the Agenda until a specific request is received.

E. Lights

Mr. Barrick produced a recommendation from Mr. Pitts dated October 31, 1960, which is as follows:

"(a) All flourescent lighting fixtures will be purchased from the Edwin F. Guth Company and all will be equipped with 'A' rated ballasts as manufactured by the Advanced Ballast Company.

"(1) Each fixture shall have 11 striated heavy guage Alzak finish aluminum cross louvers providing a side cutoff of approximately 40° and a longitudinal cutoff of approximately 30°.

1352. Library (continued)E. Lights

- "(2) Generally, the Alzak reflectors were omitted under an earlier decision and, therefore, the reflectors for fluorescent fixtures will be of the painted type. This paint shall be a special Acrylic material.
- "(3) The various metal portions of the fixture shall be sealed with a special compound made for this purpose.
- "(4) It is to be noted that the requirements set forth above will apply to the Type 'A' and 'B' fixtures in the Garden Area 102 except that these particular fixtures will retain the Alzak finish for reflectors."

Mr. Barrick reported that the suggested lights have been checked with the electrical section of the Department of Building Maintenance and that the electricians are satisfied with the proposed lights from all standpoints, including maintenance.

The acceptance of the Guth fixture will be at no extra cost. On recommendation from Mr. Pitts and after very careful consideration, the CPC voted to recommend the Guth fixture as specified by the Project Architects.

F. Cornerstone

At the last meeting, the Board of Directors ". . . approved the use of a cornerstone in the new Library Building. The Building Committee of the Board and the Campus Planning Committee were requested to make recommendations on the size, location and what is to be placed on the cornerstone. The Board deferred consideration of the desirability of a formal ceremony."

After considerable discussion, the CPC voted to request Mr. Pitts to make a formal recommendation for a simple, dignified cornerstone in order to benefit from his experience.

1353. Major Repairs and RehabilitationsA. Rehabilitation of Herd and Farm Houses and Poultry Laboratories
(1959-60, \$4,000) (1960-61, \$4,000)

Colonel West reported that the repairs were completed on October 17, 1960.

B. Repainting Stone and Brickwork and Waterproofing Exteriors
of Science, Chemistry and Other Buildings
(1959-60, \$41,800) (1960-61, \$37,600)

Mr. Barrick reported that he recently had two long distance conversations with Mr. Vittert. The College is withholding payment of \$25,000 and a new check list of items needing correction has been sent to Mr. Vittert. It is believed that it will be necessary for him to come to Lubbock to personally check over the job. Mr. Vittert has been most accommodating in attempting to do a first class job in keeping with the plans and specifications.

Colonel West reported that a gutter at the southeast corner of the Chemistry Building was found to be leaking. The leak has been repaired and it is hoped that the problem may now be solved.

1354. Meats LaboratoryA. Construction Progress

It is estimated that the project will be closed in after two weeks. Probably 80% of the exterior masonry is in place.

B. Equipment

Mr. McElroy supplied each member of the CPC with a photo duplicated copy of the request totaling \$31,361.90. Each member is to study the list in view of making a recommendation at the next meeting.

1355. Mechanical Engineering ShopsA. Designation

Consideration was given to changing the designation from Mechanical Engineering Shops to Mechanical Engineering Laboratories but, when it was found that the contemplated change would cause confusion on the class schedule as there are other ME labs and laboratory courses, it was felt that the present nomenclature will be less confusing.

B. Construction Progress

The construction progress is quite satisfactory and the contractor seems to be on schedule.

C. Equipment

Colonel West reported that he had located milling and grinding machines at Warner Robins Air Materiel Area in Georgia. Professor Powers agreed to take both of the machines provided the Texas Surplus Property Inspector gives a favorable report on the condition. The Inspector went to Georgia on November 8, 1960, but no report has been received as yet. In addition and at Colonel West's request, the Texas Surplus Property Agency is going to make a nationwide screening in an attempt to locate the large milling machine for the Department.

1356. Other ItemsA. Sale of Buildings X-1, X-2, X-5

In keeping with the action of the Board of Directors at the last meeting,

X-1 has been sold to the Lorenzo Independent School District, the high bidder for \$1,500;

X-5 has been sold to the Lorenzo Jaycees, the high bidder, for \$1,000 to be used as a Scout Hut.

The College is to clear both of the sites as it can be done for less than the bidders proposed.

X-2 No better bid has been received, although one additional bidder has expressed an interest.

B. Requests for Extension of Time on Contracts

On recommendation of the architects, the CPC agreed, sometime back, to handle the requests for the extensions of time for reasons beyond the control of the contractors on a current basis. All architects have been so instructed but no requests for extensions have been received lately.

1356. Other Items (continued)C. Campus Mail Service

Recently, the Post Office Department sent an investigator to the campus to check out the College's request to have first-class delivery to all Residence Halls, the Bookstore and the Library. His report was favorable and the local post office has made a recommendation that this additional service be granted to the College.

1357. Physical Plant FacilitiesA. Construction Progress

The current progress is excellent as all steel has finally been received.

B. Outside Storage Space

The wisdom of placing bulk shipments for one department, such as carloads of paper goods, and emergency equipment, such as the power generator, trash truck, portable compressor and asphalt pot, in the central warehouse was discussed along with the necessity to keep the Army and Air Force service vehicles under covered storage in order to comply with the contract.

It was agreed that thought would be given to the use of such areas as the existing garage, old Mechanical Engineering Shops, Physical Plant Buildings, etc., for such storage and a recommendation will be made at a later date.

C. Telephone Service

Mr. Mason's letter of October 11, 1960, is attached to and made a part of the Minutes. (Attachment No. 272, page 772)

After thorough consideration, it was agreed that the installation is necessary and that the estimated additional cost of \$100 to incase the fiber duct in concrete would be good insurance against the possibility of breaking the cable in the future.

Mr. Mason was requested to set up the specifications for the job.

D. Warehouse Stocking

The CPC discussed means of orderly stocking the warehouse to provide maximum benefit for the entire College. It was agreed to request Mr. John G. Taylor, the College Auditor, since the operation of the warehouse will be under his jurisdiction, to present his thoughts on the problem to the CPC for future consideration.

1358. Relocation of Farm FacilitiesA. Agronomy

It was agreed to recommend the final acceptance date of November 11, 1960. ✓

B. Horticulture

It was agreed to recommend the final acceptance date of November 11, 1960. ✓

C. Dairy Facilities

Mr. Barrick reported that he is about finished with the architectural part of the plans and specifications but it will take some additional time to complete the mechanical portion. Although Mr. Mason is not yet on the payroll as Supervising Engineer for the College, he is working on the mechanical plans and hopes to have them finished after the December holidays. ✓

1358. Relocation of Farm Facilities (continued)D. Poultry

Mr. Barrick reported that the plans and specifications will be ready for a study and presentation to the Building Committee on December 9, 1960. ✓

E. Student Housing

Mr. Barrick reported that the plans and specifications will be completed in time for study and presentation to the Building Committee on December 9, 1960. The plans will include spaces for eight boys. Mr. Urbanovsky raised the question of who is to do the cooking for the group. Under the current practice, a married couple usually is included and the wife has been doing the cooking. Mr. Barrick is to investigate. ✓

F. Livestock Facilities

Mr. Urbanovsky and Mr. Barrick reported that their study of needs for livestock facilities, in place of swine facilities on the priority list, is still under consideration.

G. Utilities to Farm Areas1. Electricity

Mr. Mason reported that it will be necessary to run electricity to the sheep pens at the new location and that it will be a rather long run. The City probably will be willing to run overhead lines to the pens and it will be necessary to have some drop lights in the area. After consideration, it was agreed that the overhead lines will be acceptable in the area of the farm facilities. Also, it was agreed that Mr. Urbanovsky would take his topographic map of the field and work with Mr. Mason and Dr. Durham on the needs.

2. Sewage

After consideration, it was agreed that the most feasible solution on a long range basis would be to run a sewage line to the corner of Fourth and Indiana, if the City would accept the sewage at that point. There is no City sewage available at the corner at the present time. Such an arrangement would not only provide adequate facilities to handle the sewage from the farm facilities but also the residences and other buildings at the corner of Fourth and Indiana. Mr. Urbanovsky was requested to check with the City on the possibility of the City running a sewage line to the corner. If the City will not, it will be necessary to provide a number of septic tanks at the needed locations.

Mr. Mason was of the opinion that the water from the milking parlor could be handled by seepage into the ground through a system of underground lines. He is of the opinion that the water could be beneficially used but it will be checked to see if there is anything in the water which would kill plants.

1359. Rifle Range

Part of the plan for moving the ROTC to the old Library when it becomes available is a new Rifle Range near the Library. The ROTC contract requires the College to supply a range and the present one must be abandoned when the AF ROTC moves.

Mr. Barrick was requested to make a study and present his recommendation in January.

1360. Science Building

The architects have proposed to take bids in January and award a contract at a meeting of the Board of Directors on February 11, 1961. Such steps will necessitate approval of final plans and specifications on December 10, 1960, and the architects have indicated that they can present the plans in a substantially completed state for consideration of the Building Committee and the Board at that date.

Since the architects have proposed a time schedule, the CPC recommended that the plans be presented to the Building Committee on December 9, 1960, for consideration.

1361. Student UnionA. Work Order

The official work order was issued on November 4, 1960.

B. Completion Date

The completion date is still February 1, 1962.

C. Construction Progress

The contractor has been making good progress and poured the first concrete on November 16, 1960.

D. Status of Change Orders

In keeping with the Board's approval, the final drawings are being prepared at this present time and dollar amounts should be available in time for study and recommendation to the Building Committee on December 9, 1960.

1362. UtilitiesA. Water Lines and Sprinkler System

Mr. Urbanovsky reported that only the fittings have yet to be delivered in order to install the water lines and sprinkler system in the vicinity of the Textile Engineering and Classroom-Office Buildings.

Mr. Urbanovsky reported that the six inch pipe under the women's tennis courts has been plugged and the pipe to reroute the line is in order.

B. Electrical Installation

There is some question that the fiber duct has been installed according to the plans and specifications and pictures are available to support the contention. Specifications called for three inches of concrete on all sides of the fiber duct but the base duct shows in some places. After careful consideration, the CPC voted to have the tunnels checked by excavation at points suggested by Mr. Mason. If the installation is improper, the cost of the exploration will be borne by the contractor. If the fiber duct is properly installed, the expense of exploration will be borne by the College.

Mr. Mason left the meeting at 3:55 p.m.

C. Tunnel and Other Utilities (Anthony Company of Lubbock)

Mr. Barrick reported that the work was completed on November 17, 1960, and recommended the date for final acceptance.

1362. Utilities (continued)D. Switch House

The work has been completed and the recommended final acceptance date is November 10, 1960. ✓

1363. Veterinary Science BuildingPost-mortem Room

Mr. Barrick reported that nothing has been done except to relocate the room in conjunction with the new access drive.

The Chairman left the meeting at 5:20 p.m.
Mr. McElroy took the remaining Minutes.

1364. Walks, Drives and Parking LotsA. Area 2 (Vicinity of Doak and Drane Halls)

Mr. Urbanovsky reported that work started on November 16, 1960, in Area 2 and work will be done in the other areas as the contractor can get to them.

B. Removal of Paving, Caliche Base, and Curb and Gutter in the Engineering Area

Mr. Urbanovsky reported that the work was completed on November 10, 1960.

1365. Women's GymA. Equipment

Mr. McElroy reported that all equipment is on hand except the office dividers which are scheduled to be delivered next week and installed by December 1, 1960.

B. Schedule of Move

The dancing classes are to be moved into the new building from the Recreation Hall on November 18, 1960, and the complete move is scheduled to begin approximately December 1, 1960.

C. Progress Report on Tennis Courts and Other Outside Facilities

The contractor is making excellent progress. The last concrete pour is scheduled for November 18, 1960, and ten days will be needed for proper curing. The tennis courts should be completed by December 1, 1960, and the concrete sidewalks are scheduled to be poured as soon as the tennis courts are completed.

M. L. Pennington
Chairman

The meeting adjourned at 5:30 p.m.

Campus Planning Committee
Attachment No. 270
Item No. 1348A (7)

THE BUTLER - KIMMEL COMPANY
Architects

412 Avenue M
M. C. Butler, A.R.A.

Lubbock, Texas

P. O. Box 418
R. Turner Kimmel, A.I.A.

November 17, 1960

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

Re: Classroom-Office Building
Texas Technological College

Dear Mr. Barrick:

A progress report on the miscellaneous items that required repair or replacement, on the above referenced project, as discussed with you, Mr. Duncan and ourselves is as follows:

1. Water leak in Room 216-C. Texas Roofing has repaired this leak.
2. Leak in stair at East Entrance. This leak occurred around window wall and Pittsburgh Plate Glass Co. has recaulked and reset this glass.
3. Leak in window wall at Main Entrance, Pittsburgh Plate Glass Co., has corrected these leaks.
4. Leak in West Stair Tower at Downspout. Flashing at scupper has been reworked to correct this leak.
5. Leak in window wall at Central Stair tower West Wall. Pittsburgh Plate Glass Co. has corrected these leaks.
6. Locks on several interior doors not locking properly. The hardware supplier has gone over the entire building and has reworked or replaced all defective locks.
7. Locks on exterior doors. All exterior doors have been checked and all defective cylinders have been replaced.
8. Door binding in Men's Toilet Room, 2nd floor. This has been repaired.
9. Vent screens around perimeter of building not securely anchored. This has not been accomplished as the contractor is trying to find a satisfactory method for anchoring these. This will be accomplished in the near future.
10. Metal loose on column at East Entrance to West Stair Tower. This has been repaired and securely anchored.
11. Paving at loading dock on West Service Drive, needs patching. On an inspection with your representative, we could not find this area. It will be necessary to shovel sand away from the loading dock to more thoroughly check this. This will be further checked.

Mr. Nolan E. Barrick

Page 2

November 17, 1960

12. Flooring and base loose in Dean's Office and a number of places over the building. The original flooring contractor has gone out of business. Mr. Duncan has made arrangements with Newsom to thoroughly check all flooring and base and for them to replace or repair all defective areas. This will be accomplished next week.
13. Caulking at windows. This has been checked and windows requiring caulking have been caulked.
14. Cracks in tile wall, first floor, East Corridor. Tile loose and some needs replacing. The tile contractor from Dallas will have his crew in town next week and will replace and regrout tile.
15. Resurface Chalk Boards. In a telephone conversation with Mr. Crawford, as of this date, he will be in Lubbock, Monday, November 21, for a conference with you and ourselves, to take action on the resurfacing the chalk boards.

The foregoing covers the work required of the general contractor on this project.

As to the sound transmission from room to room, an acoustical consultant from Fiberglas will be in Lubbock following Thanksgiving and will make a study of the problem and give us a report on his findings. We were in hopes that our experiment would do the job, but since it did not, we felt it would be to everyone's advantage to have an expert give his opinion on this.

We experimented in sealing off part of the exhaust air grilles using a latex type paint. This seemed to be satisfactory and Mr. Ray Downing approved the method. We delivered sufficient paint to Mr. Downing to seal these screens and he said his staff would take care of this work.

This brings us up to date on this work and we will follow it through to completion and your satisfaction.

Very truly yours,

THE BUTLER-KIMMEL COMPANY

/s/ R. Turner Kimmel

R. Turner Kimmel, A.I.A.

RTK:tw(d)

cc: S. R. Duncan & Associates

Campus Planning Committee
Attachment No. 271
Item 1350

TEXAS TECHNOLOGICAL COLLEGE
School of Home Economics
Lubbock, Texas

Office of the Dean

November 9, 1960

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

Dear Dr. Goodwin:

This letter is to ask your consideration, and that of the Board if you agree, of a reassignment of space for two academic programs as follows:

1. Transfer Home Management House Residence to the President's Home, possibly beginning spring semester, 1961.
2. Convert the present Home Management House into the Campus Nursery School as soon as practical after it is vacated as a residence, freeing the present nursery school building for use by other parts of the College.

Before enumerating justifications to support these proposals, I want to record that neither move would provide buildings of the type and kind actually needed in the two programs. However, since the President's house for Home Management Residence and the Home Management House for the Nursery School would each be so much nearer what is needed than is now provided, we earnestly seek your study of these moves until such time as the next building funds may permit the construction of appropriate facilities for the two programs.

EXPLANATION OF THE PROGRAMS

Home Management Residence

This is a requirement of all majors in Home Economics Education in college programs approved to train vocational homemaking teachers. Several other departments also require this residence. There is no question but that it is one of the most expensive courses offered in home economics. Aside from unusual physical facilities, the course requires 24-hour per day duty on the part of a competent and well adjusted staff member, whose teaching load is adjusted to compensate for her peculiar assignment.

The laboratory experience in residence is a culmination of the previous three years of college-level home economics courses in which below are listed some of the practical applications in home management house residence:

- "Running" of a large family sized household.
- Planning, preparing, and serving three nutritious meals per day.
- Making a budget based on defined goals, then living within the budget.
- Selecting, purchasing, and caring for various types of household furnishings and equipment.
- Caring for household linens.
- Living together, harmoniously, in a type of family situation.
- Caring for an infant during the day.
- Entertaining graciously for various types of occasions.
- Keeping up with other course requirements and campus life in addition to "homemaking."

In other words, these senior students experience the two-way pull modern women face today in homemaking and in work outside the home.

Nursery School - A Human Development Laboratory

This laboratory serves not only the Home Economics students in Child Development courses, but provides the laboratory for all elementary education majors in the School of Arts and Sciences. It consists of two programs running concurrently:

- (a) A nursery school for preschool children with all of the staff-skills and physical facilities needed to guide their growth and development, plus
- (b) Supervision of a constant relay of college students who are guided at first into observation of the children, then into participation in the activities of the children.

Observing and/or working with children, to be a learning experience for the college student, takes time. Some years ago we had to abandon the desirable 3-hour laboratory period and resort to only 2 hours per week because of the extremely crowded facilities in our Nursery School Building. When the number of adults is greater than that of the children, the children cease behaving naturally and begin watching the adults instead of the other way around. The desirable laboratory atmosphere for studying children is for the children to be unaware that they are being observed.

For several years also we have resorted to "borrowing" the use of community nursery schools as outlets for students with transportation for their laboratory work with children. This practice has some desirable features which could be retained, even with expanded on-campus facilities. The most undesirable feature of off-campus laboratories, even if all of the community preschools met desirable nursery school standards (which they do not) is that the staff members teaching the subject matter and giving the directions for the laboratory work cannot know or direct student laboratory experiences in the community child care centers.

JUSTIFICATIONS FOR THE REQUESTS

Home Management House for Residence

- a. Size limits the number of students who can live in the house at one time to 8, plus director.
- b. Top number possible in 2 semesters and 2 summer terms is limited to 44. (Last year we had to put 3 groups in one semester, reducing their residence periods to $5\frac{1}{2}$ weeks instead of 8 weeks, a substandard period in accredited home economics teacher-education programs.)
- c. So much of the structure and furnishings are outmoded. Thirty-year old storage facilities, bathroom fixtures, exposed pipes, etc., create problems in management out of proportion to present standards of home living.
- d. The students and director have demonstrated the excellent care they give the house and its furnishings.
- e. Access to this residence is a continuous problem, with no parking space whatever.

President's House for Home Mgt. Residence

- a. Adequate space for 11-12 students at one time, plus director.
- b. The number possible increases to 66 with no increase in staff time. When the numbers do not necessitate a 12-months residence program, the course would not be scheduled in the summer terms, thus reducing staff costs. (It is extremely difficult to secure year-round residence directors.)
- c. In every respect, the president's house is in better condition, has more up-to-date architecture and interior design, better quality furnishings and can provide a background for more gracious living.
- d. The president's house would be in better condition to be lived in than kept closed.
- e. Ample parking and delivery space is available.

Present Nursery School

- a. Size limits the laboratory to one group of children in the morning and one group in the afternoon.
- b. Off-campus laboratories are being used, all of which are below the standards of staff and operation maintained on-campus.
- c. Delivering and picking up children creates a terrific traffic jam in the crowded parking lot.
- d. Very little of the equipment is built-in and could be moved at relatively small cost.

Home Mgt. House for Nursery School

- a. Size would enable two groups in the morning and two in the afternoon. This would double the number of laboratory spaces available to college students.
- b. Students would merely observe in off-campus centers and would receive their major training in a standard nursery school.
- c. Delivering and picking up children could be done by brief parallel curb parking in the wide one-way street leading off campus onto Broadway.
- d. The major change in equipment would be in moving the small toilets and in providing additional ones because of maintaining nursery schools on two floors.

To maintain two nursery school programs simultaneously (on the two floors) would necessitate purchase of some additional equipment. Fees paid for the additional children would in time offset a major portion of this cost.

Some additional Nursery School staff would be needed. The addition of staff would come gradually as the "second" nursery school would start on a one-half day basis, and then later would extend to a full day as enrollment in the college increases.

I am sure that I have not presented all of the justifications possible but these are the major ones. If you have questions we shall of course be glad to try to answer them.

Yours very truly,

/s/ Willa Vaughn Tinsley
B.W.

Willa Vaughn Tinsley, Dean
School of Home Economics

WVT:mjh

CC: Mr. Pennington, Chmn., C.P.C.

Campus Planning Committee
Attachment No. 272
Item 1357C

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of College Engineer

October 11, 1960

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

Dear Mr. Pennington:

Telephone service to the new Physical Plant Building should receive consideration in advance of the completion of the Meats Laboratory as well as the Physical Plant Building itself.

The new utility tunnel terminates at a point southeast of the Meats Laboratory. In order to eliminate as many utility poles as possible in the Meats Lab and Veterinary Science area, it is my recommendation that the College plan the installation of a 4" fiber duct, or conduit, buried some 30" below grade, and extending from the west end of the utility tunnel to the first power pole which is some 330 ft. to the west. This is the pole from which the City of Lubbock drops the incoming electric service underground as it comes to the newly located power substation.

The fiber duct for telephone service would follow the general curvature of the street curb, and would be located a suitable distance north of it. It should be installed before sidewalks, driveways, etc., are installed for the new Meats Lab area. I personally see no need to encase the fiber duct in concrete, although the specifications for the job could quite easily include the concrete encasement as an alternate bid. Price estimates for this installation (some 330 ft. long) are: Fiber duct without concrete, \$300; and with concrete encasement, \$400.

I should be pleased to set up a specification for the job, and will do so immediately, if so advised.

At a future time, when the incoming electric power service is dropped underground at a point further west, say on the west side of Flint, the College should expect to extend the underground duct for telephone service on west to the same location.

Yours very truly,

/s/ Robert L. Mason

Robert L. Mason
Professor, Mechanical
Engineering Department

RLM:mm(d)

cc: All members of Campus Planning Committee

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 96 December 1, 1960

A meeting of the Campus Planning Committee was held on Thursday, December 1, 1960, at 2:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1366. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Colonel West, the Minutes of Meeting No. 95 were approved.

1367. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meeting No. 95 on November 23, 1960.

1368. Agricultural Plant Sciences Building

A. Construction Progress

A re-evaluation of the progress seems to indicate that the contractor may be as much as one month behind schedule on the number of days allowed.

B. Equipment

Mr. McElroy reported that all specifications are in his hands except one.

C. Extra for Millwork

Mr. Barrick reported that he is trying to figure some way to reduce the cost. The drawings are being cleaned up and will be issued for rebidding. The specifications will provide for unit prices in order to make the total come within the budgeted amount. It may be necessary to reduce some of the storage space.

1369. Architecture-Computer Building

A. Construction Progress

Mr. Barrick reported that final inspection was made on November 28 and 29, 1960. The inspection resulted in a rather extensive punch list which has been pretty well corrected by this time. The building is substantially complete and the Department is moving into the building. The scheduled completion date, according to the contract, was August 15, 1960. The contractor may be due an extension of time for causes beyond his control but no request has been received. The Project Architect is requested to make an immediate investigation and recommendation for a final acceptance date.

B. Equipment

Mr. McElroy reported that all equipment is in good shape except the metal lockers on which he has been unable to secure a price.

C. Moving

When X-1 and X-5 Buildings were sold, the successful bidders were told that they could have delivery of the buildings prior to this time. Both buyers badly need the facilities. In order not to delay removal of the buildings, it is necessary to move the Department

1369. Architecture-Computer Building (continued)C. Moving

of Architecture and Allied Arts with the least amount of delay. Since the Architecture-Computer Building is substantially complete, the Department can be moved without inconveniencing the contractor.

As a result, bids were taken to move the Department of Architecture and Allied Arts to the new project and are as follows:

1. B & H Warehouse, Inc. - - - - - \$1,197.50
2. Armstrong Warehouse
& Transfer, Inc. - - - - - 1,740.00
3. Hub City Moving - - - - - 2,011.44

After considering all factors, the CPC voted to recommend the award of the contract to B & H Warehouse, Inc., Lubbock, the low bidder, in the amount of \$1,197.50 plus \$15.00 for insurance above the amount normally carried, the amount to be paid from the Unappropriated Balance.

1370. Boiler and HousingA. Final AcceptanceHousing

Nothing seems to have been done by the contractor since the last report. Colonel West was requested to check to see if the broken skylights have been replaced and if the roof leak has been patched.

Boiler

The final check-out is still scheduled for December 5, 1960, but Mr. Mason reported that he has requested the contractor to paint the stack before the boiler is fired up. The contractor reported that the stack will be painted either Friday or Saturday of this week.

1371. Chemical Engineering BuildingA. Construction Progress

The structural frame is complete and mechanical work has begun in the basement. Although, it is too early to determine for sure, progress seems a bit slow and the contractor may be somewhat behind schedule.

B. Air Conditioning

A copy of Dean Bradford's request of November 17, 1960, is attached to and made a part of the Minutes. (Attachment No. 273, page 780)

As the Campus Planning Committee is in no position to evaluate the need, it was agreed to refer the request to the President.

1372. Classroom-Office BuildingA. Progress Report on Check List1. Chalkboards

An investigation reveals that the paint contractor may not have used the paint specified and which he said he used. Also, the paint contractor seems a bit reluctant to meet in an attempt to effect a solution. The Chairman is to report the problem to Mr. Warlick Carr, Attorney for S. R. Duncan, Contractor, in an attempt to remedy the condition.

1372. Classroom-Office Building (continued)2. Air Conditioning

Mr. Barrick reported that the Project Architect and his engineer feel that the only solution to the dust problem is to reduce the amount of air intake by painting approximately one-half of the air intake screens. The Department of Heating and Utilities will do the painting and a check will be made to determine the results. In addition, the manufacturer has supplied some test filters which are being tried and Mr. Downing thinks will help.

3. Sound Transmission

Mr. Barrick reported that the Project Architect had stated that a sound expert was coming out but he has not been seen. The Chairman is to write the Project Architect for an explanation.

1373. Home EconomicsHome Management House and Nursery School

The Chairman reported the conversation with Dean Tinsley. A summary of the conversation is attached to and made a part of the Minutes. (Attachment No. 274, page 781)

After discussion, it was agreed that Colonel West and a representative from the Supervising Architect's Office would make a survey of the present Home Management House and the President's Home to determine the condition of both and the adaptability, feasibility and plans to make use of the facilities.

1374. HousingA. Married

Mr. McElroy reported that he had talked, by phone, with Mr. H. L. Cain, father of L. L. Cain. Mr. Cain reported that the application for a loan commitment has been filed and he is finding it difficult to get action from the loan office at this time due to the administrative change. He reported that the loan officials have suggested that the number of units be reduced from 256 to 150. He added that there is a lot to be done but he feels optimistic.

B. Other (Women and Athletes)

The Chairman presented the information which has been accumulated to date. The summary is attached to and made a part of the Minutes. (Attachment No. 275, page 782)

After discussion, it was agreed that housing for women must have top priority. A report from Mr. Burgess shows, as of November 30, 1960, that reservation requests for rooms in September, 1961 have been received from 222 women. At the same time a year ago, there were only 108 requests. Women students make requests far in advance of the men; however, the number of reservations is indicative of the need for additional women's housing in September, 1961. It is estimated that there will be 225 additional women to be housed next September if facilities are available. Women were tripled in 75 rooms this fall.

It was agreed that the accumulation of information would continue with the hope that a recommendation can be made soon as plans need to be announced shortly after the calendar year on facilities to be available next fall for women.

1375. LibraryA. Construction Progress

The fire went out. The job has been shutdown due to difficulty with steel.

B. Alternates

Mr. Pitts' letter of November 21, 1960, was considered at length. The letter is attached to and made a part of the Minutes. (Attachment No. 276, page 783)

After consideration, it was agreed that Mr. Pitts' letter is in keeping with the arrangements made with the Board of Directors. The CPC voted to recommend the acceptance of the proposals to the Board of Directors.

C. Six Months Alternates

Mr. Pitts' letter of November 22, 1960, was considered. The letter is attached to and made a part of the Minutes. (Attachment No. 277, page 794)

After consideration, it was agreed that the members of the CPC will study Mr. Pitts' letter and make a recommendation at the next meeting.

D. Cornerstone

No recommendation has been received from Mr. Pitts to date.

1376. Major Repairs and RehabilitationsA. Repointing Stone and Brickwork and Waterproofing Exteriors of Science, Chemistry and other Buildings
(1959-60, \$41,800) (1960-61, \$37,600)

Mr. Barrick reported that no word has been received from Mr. Vittert since the last meeting of the CPC.

1377. Meats LabA. Construction Progress

Mr. Barrick reported that progress is good. The project is pretty well closed in and the contractor is moving along in good shape.

B. Equipment

Mr. McElroy reported that he has been unable to get all of the requested information as both Dr. Durham and Mr. O'Brien have been out of town. It was agreed that if the needed information can be secured in time for consideration in the very near future, a recommendation will be made to the Board next week. If not, it will be necessary to wait until the meeting in February to secure approval of the equipment.

1378. Mechanical Engineering ShopsA. Construction Progress

Mr. Barrick reported that the contractor is coming along in grand shape. He is finishing out the inside at the present time. Mr. Powers hopes to move his equipment during the Christmas holidays and it looks as if it will be possible.

B. Equipment

Mr. McElroy was requested to begin preparations to move the Mechanical Engineering equipment during the Christmas holidays and was requested to secure competitive bids to be presented to the CPC.

1379. Nuclear Reactor

On November 21, 1960, the National Science Foundation reported that it is unable to support the proposal from Texas Tech for the construction of a Nuclear Reactor and Associated Facilities.

1380. Other Items

The sale of X-2 Building is still pending a bid from Mr. Oliphint.

1381. Physical Plant FacilitiesA. Construction Progress

Mr. Barrick reported that progress is very good. The project is just about closed in with the exception of the garage, the storage area next to the garage, and the office section.

B. Outside Storage

Mr. Taylor's recommendation was read and it was agreed that it will be a part of the over-all recommendation for use of the facilities.

C. Telephone Service

(Mr. Mason entered the meeting and remained for the discussion of the utilities to the Farm Area and the Electrical Utilities installation, which were discussed next.)

Mr. Mason presented the plans and specifications to provide the telephone service. The work must be done before the contractor finishes the Meats Lab. It was agreed to recommend the plans and specifications with the addition that unit prices be taken in case the City moved the electrical service farther west in order to extend the phone service the same distance. It is estimated that the cost will not exceed \$500.00. There will be a minimum of 340' at an estimated cost of \$1.25 per foot.

Mr. Mason reported that the Telephone Company has made plans to route the service along the west side of Flint from 14th Street to the Physical Plant Facilities, at Company expense. The proposed routing was found to be satisfactory.

D. Equipment

There is a good possibility that there will be insufficient time to get approval of the Board of Directors for the needed equipment at the February meeting and be able to get delivery by the time the project is finished. It was agreed that efforts would be made to have the recommendation ready next week as there does not seem to be a very great deal of equipment other than shelving and storage bins.

1382. Relocation of Farm FacilitiesA. Dairy Facilities

The Chairman made a mistake in writing the last Minutes. The completion of the plans and specifications must wait until Mr. Mason has time to prepare the mechanical portion and it looks as if he cannot work on the project until after the first of the year.

B. Poultry

The final plans and specifications will be ready for presentation to the CPC for study at the meeting to be held at 2:00 p.m. on Tuesday, December 6, 1960.

1382. Relocation of Farm Facilities (continued)C. Student Housing

Preliminary layouts were studied by the CPC. The layouts seemed to be reasonable and feasible. It was agreed that cost estimates and the other usual studies would be made and that the plans and specifications would be developed further in conjunction with the development of the plans and specifications for the Dairy Facilities.

D. Livestock Facilities

The preliminary layouts were presented and progress is being made in the development of the area. Help is needed from Dr. Durham to develop the plans further. Fences, gates, troughs, etc., are being studied also.

E. Utilities to the Farm AreaElectrical

Progress has been made on the development in the area. The City will rerun overhead service to the area and drops can be made where needed. There will be some advantages to the City to rerun the lines.

F. Fill

As Herds and Flocks has a good maintainer, it was agreed to request the Department to do as much leveling and grading as possible. Dr. Durham was requested to let the Chairman know how much can be done.

1383. Science BuildingFinal Plans and Specifications

Mr. Barrick reported that the Project Architects are well-along with the plans and specifications. The three Science Department Heads have studied the detailed plans and equipment layouts and are in accord.

It was agreed to request the architects to present the final plans and specifications to the CPC for study at 3:00 p.m. on Wednesday, December 7, 1960.

1384. Student UnionA. Construction Progress

Progress seems to be satisfactory. The contractor is pouring concrete and forming the basement walls.

B. Change Orders

It is hoped that the architects will have recommended costs and plans and specifications in time for presentation to the Board of Directors at the next meeting. The drawings have been carefully checked with Mr. Longley and he concurs in the development to date. The proposed changes cover only the upgrading of the spaces approved by the Board of Directors to make the finishes comparable to those in the existing portion.

1385. UtilitiesA. Water Line and Sprinkler System

1. Mr. Urbanovsky reported that the fittings for the underground system in the vicinity of the Textile Engineering Building and Classroom-Office Building have yet to be delivered but he thinks that they are en route.

1385. Utilities (continued)A. Water Line and Sprinkler System

2. Six inch water line around women's tennis courts, Mr. Urbanovsky reported that the material has been ordered but has not arrived.

B. Electrical Installation (Nelson Electric Company)

Mr. Barrick and Mr. Mason reported that they have conferred several times with Mr. Jack Nelson, the Contractor, and Mr. Jack Roberts, the Project Engineer, on some aspects of the installation and the evaluation of claims for extra payment. The study is not complete yet.

1386. Veterinary Science BuildingPost-mortem Room

Mr. Barrick presented some tentative plans. The Department has requested the addition of a cooling room to hold animal bodies for disposal.

Considerable reduction in space has been made and it looks as if more reductions may be necessary.

1387. Walks, Drives and Parking LotsA. Walks

Area 1 - The work at the Women's Gym will be completed this week and that at Knapp Hall by next Wednesday.

Area 2 - The work in this area is complete with the exception of the short run to Horn Hall.

Area 3 - No work has been done as yet.

Area 4 - No work has been done as yet.

1388. Women's GymA. Equipment

The office dividers are being installed today and the installation should be completed by December 8, 1960. All of the other equipment has been reported as on hand.

B. Schedule of Move

The cabinets and storage racks have been moved into the equipment room and are in the process of being installed. The installation is to be completed by December 8, 1960.

C. Progress Report on Tennis Courts and Other Outside Facilities1. Tennis Courts

Final inspection is scheduled for next Monday or Tuesday.

2. Others

The backstop has not been moved as yet and Dr. Dabney is requested to let Mr. Urbanovsky know the needs.

M. L. Pennington
Chairman

TEXAS TECHNOLOGICAL COLLEGE
School of Engineering
Lubbock, Texas

Office of the Dean

November 17, 1960

Mr. Nolan E. Barrick
Supervising Architect
Texas Tech
Campus

Dear Mr. Barrick:

In reply to your letter concerning the possible air conditioning of the new Chemical Engineering Building, I am pleased to furnish the following information relative to the need for certain temperature controlled areas:

Within the Chemical Engineering Building there are four rooms which will require a rather close temperature control due to the use of extensive electronic instrumentation. These four areas constitute the Analytical Laboratory (Room 104), Demonstration Laboratory (Room 211), and the two research laboratories (Rooms 207 and 208). The general trend in chemical engineering work is towards greater instrumentation particularly with respect to process control. In the chemical industry in the southern part of Texas, almost every company is installing one or more special process control computers and the instrumentation necessary to feed the data to the computers for information. This means that if we are to maintain control and up-to-dateness in our chemical engineering courses, we must emphasize more and more the field of instrumentation and the use of computers for process control. Thus the four rooms mentioned above should be temperature regulated areas. For the same reasons, but a little less demanding in importance is the control of temperature in the Unit operations and process instrumentation laboratory (Room 103). This will be particularly true once proper installation of control instrumentation on distillation columns and solvent extraction pulse columns are installed in the unit operations and instrumentation laboratory. Heat losses and heat gains materially affect the operation of the columns, for when the temperature is changing considerably throughout a two, three or four-hour period, many errors are introduced in the chemical engineering calculations associated with the operation of these columns.

Since the original plans call for extensive air conditioning of the nuclear portion of this building, and since a sizeable amount of money was transferred from the original allocation for this structure to install air conditioning capacity in the basement of the Architecture-Computer Building, I believe that it would be reasonable to allow this air conditioning capacity to be used by the Chemical Engineering portion of the building until such time as the demand for this capacity is required by the Nuclear Reactor Bay and the Nuclear Laboratories.

It is my understanding that an estimate from the engineers has placed the cost in the neighborhood of \$7,000 to install the cooling coils necessary for air conditioning of the Chemical Engineering Building. I would assume that this figure would be considerably greater if the building were completed and the decision made at a later date to proceed to the air conditioning of the building. I would, therefore, recommend most wholeheartedly that we proceed at this time in the installation of this equipment.

Very truly yours,

/s/ John R. Bradford

JRB:j(d)
cc: Dr. R. C. Goodwin
Mr. M. L. Pennington
Mr. D. M. McElroy

John R. Bradford
Dean of Engineering

Campus Planning Committee
Attachment No. 274
Item No. 1373

S U M M A R Y

Home Economics - Home Management Residence and Nursery School

Fall Enrollment in Home Economics Majors

1955 - 365
1956 - 422
1957 - 416
1958 - 429
1959 - 464
1960 - 514

Enrollment in Home Management Residence (H.M. 432)

1953-4 26
1954-5 13
1955-6 32
1956-7 43
1957-8 43
1958-9 35
1959-60 52

Enrollment

	<u>CD&FR 131 (1)</u>	<u>CG&D 233 (2)</u>	<u>Total</u>
1953-4	103	66	169
1954-5	116	91	207
1955-6	121	121	242
1956-7	128	156	284
1957-8	120	185	305
1958-9	105	208	313
1959-60	115	244	359
1960-61	67 (3)	138 (3)	205 (3)

- (1) Child Development and Family Relations 131
(Required of every Home Economics freshman in the first year)
- (2) Child Growth and Development
(Required of all Elementary Education Majors on a campus-wide basis.
It is a sophomore course. Of the 138 students enrolled, only 70 are
sophomores and the rest juniors and seniors.)
- (3) Fall semester only.

Home Management Residence

At least six weeks residence is required of all Home Management seniors except those married and maintaining a residence in town. It is required by the State plan for Vocational Education as adopted by the State Vocational Education Agency. Every degree granting institution in the United States with the program for Vocational Education must provide facilities for residence in a Home Management House. It is required for accreditation of the degree granting institution and for certification of the teacher.

The number of students in the Home Management House at one time is necessarily small as living accommodations must be provided as near normal family situations as possible under the most gracious home conditions.

The President's Home would provide facilities for more gracious living and free the present Home Management House for use as a Nursery School.

Use of the President's Home is desired to provide space for more students as set out in Dean Tinsley's letter of November 9, 1960, (Attachment No. 271, page 771). It is proposed that the furniture in the President's Home, as well as in the present Home Management House, be used. The combined furniture would be ample for the increased number of students. Much of the Home Management furniture has been in use since 1929 and is still in usable condition even though it is outmoded. The long life of the furniture is due to the unusually good

Home Management Residence (continued)

care that the students take of the furniture as it is part of their training. Women students are much more careful with furniture than men. The wear on the furniture, with the care which would be exercised, should not be very great.

The approximately twelve persons in the home would cause a good bit of wear on the carpets and there is no way to prevent it. However, good care would be taken of the carpets also.

No new furniture would be needed and no remodeling would be necessary. The Home would be used exactly as it is. The only cost would be that of moving.

It is proposed to use the present kitchen and equipment in the President's Home for the Home Management students. The use of the kitchen equipment would allow the present equipment in the Home Management House to remain for use in preparing lunch and morning and afternoon snacks for the children.

Nursery School

Child Development and Family Relations 131 is required of all freshmen women in Home Economics during the freshman year. Child Growth and Development 233 is required of all Elementary Education Majors on the campus and required for teacher certification. It is a sophomore course but, due to the limited facilities of the Nursery School, it is most often taken in the junior and senior year. The Nursery School is the laboratory for both courses and is a standard requirement throughout the United States. There is no reason why the required courses could or would ever be changed. Speech and Psychology would like to make use of the Nursery School as part of the curriculum but the facilities are insufficient. There could be much more use made of the Nursery School if there were more space.

There are six sections of Child Growth and Development 233. The sections normally have a three hour laboratory period but, due to the number of students needing the work, the laboratory periods have been cut to two hours with the other hour being used to view films and other training aids. By restricting the laboratory period to two hours, one more section can be accommodated and the increased enrollment necessitated the change.

It is necessary to have children in the Nursery School in order for the students to observe them and to understand how children grow, develop and learn. All Elementary Education Majors are being trained to teach children and must understand them in order to teach effectively. The Home Economics Majors are being trained for family living and, at the same time, for professions in Home Economics which include teaching.

The enrollment of women in Home Economics remains at a level of 20 to 25% of the women enrolled in Texas Tech. As the enrollment is on the increase, it is logical to assume that the enrollment of Home Economics students will increase proportionately. The use of the present Home Management House for a Nursery School would provide space for two classes at the same time, one upstairs and one downstairs. The simultaneous classes would enable the Home Management Department to catch up on the backlog and enable sophomores to take the course at the natural level rather than take it after they have had a number of the advanced method courses.

The only physical changes needed in the present Home Management House to convert it to a Nursery School would be the addition of some small toilets on both floors, probably by removing the bathtubs to make room, one partition removed upstairs to provide a larger laboratory room, and some fencing to enable the children to play outside. Dean Tinsley does not think that the children, while playing in the yard, would disturb the women residents in Weeks Hall.

The use of the present Nursery School would be determined by the time interval. If the School of Home Economics should have new facilities before a new President might want the President's Home, there would be no further need for the building at the present site. If the President's Home should be in demand in the next few years, all of the moves would have to be reversed or other arrangements made. If the President's Home were not needed for a new President before the new facilities could be provided, the present Nursery School would be available for other use and could be used at the present site or moved. If there should be no justifiable demand for the house, it could be sold and the site cleared to improve the appearance of the area.

Campus Planning Committee
Attachment No. 275
Item No. 1374-B

INFORMATION ON HOUSING FOR WOMEN AND ATHLETES

Additional Housing for Women

With the indicated increase in the number of women resident students for the fall of 1961, there seems to be no solution but to take one of the existing men's halls for women.

The selection of an appropriate hall boils down pretty well to either West or Sneed. There are more advantages from the standpoint of the women to use West rather than Sneed. West is farther from College Avenue, closer to the parking lot, and has a more desirable lounge even though it is on the second floor. The estimated number of women for next fall could use the existing dining room in West without difficulty. West would necessitate fewer alterations in all probability. The desks and chests would have to be renovated and the chairs probably would have to be replaced. Some modifications would be needed in the bathrooms of either hall and some rugs would be needed in either hall.

If either West or Sneed is taken for women residents, should it be on a temporary or long-range basis? In all probability, the arrangement should be on a temporary basis with plans made for additional new facilities as a long-range solution.

If nothing else can be done in time for the meeting of the Board on December 10, 1960, a decision probably should be made to take one of the existing men's halls for women on a temporary basis for use next September. The other details could be worked out a bit later when there is more time, providing the decision on which hall to take is not too late. Whichever hall is taken for women, it probably should be for upper classmen only.

Information on Housing of Athletes from Other Schools

The A & M College of Texas (Mr. Charlie Roeber, Business Manager)

A & M has an Athletes' Dormitory financed by borrowed funds in the amount of \$500,000 through the issuance of Revenue Bonds secured by the net operating revenues of the Athletic Department. There is a capacity of 92 beds and all athletes over 92 are housed with regular students. Room is furnished to the 92 without cost to the students as a part of the athletic scholarship. The operating costs of the Athletes' Dormitory are paid by the Athletic Department. All athletes are fed at a special training table in the mess hall. The Athletic Department pays full costs of operating the dormitory and actual cost of food service.

The University of Texas (Mr. Graves Landrum, Business Manager)

The Athletic Department originally constructed Hill Hall for athletes. However, it has been joined by Moore Hall and the two are now known as Moore-Hill Hall. The athletes live in Moore-Hill Hall. They room with other athletes but are interspersed with nonathletes throughout the hall. The Dormitory System pays the Athletic Department between \$7,500 and \$9,000 each year for the use of the Hill Hall portion. In turn, the Athletic Department pays the dormitory the regular rate of \$30.00 per month for each athlete. The Athletic Department contracts a specific number of spaces, approximately 175 to 190 out of the 400 available. The number is approved by the Board of Regents. The number of scholarships allowed is recommended by the Athletic Council and approved by the Board of Regents. The total number allowed is rigid but flexibility is permitted in the number per sport, the number of freshmen in each sport, etc. Moore-Hill Hall is operated by the Dormitory System.

The athletes eat at a training table which is operated directly by the Athletic Department. All operating expenses are paid by the Athletic Department.

INFORMATION ON HOUSING FOR WOMEN AND ATHLETES

The University of Texas (continued)

The dining room is used as a study hall and there is another in the English Building for the freshmen. There is a tutor system financed by the Athletic Department. The Athletic Department budgets specific amounts for the training table and tutors.

The Dormitory System does not subsidize the Athletic Department.

Texas Western College (President Ray and Dr. E. J. Knapp, Chairman of Athletic Council)

Texas Western has a separate dormitory for athletes and it was constructed by donated funds without cost to the College. The Athletic Department pays all of the operating expenses. The capacity is about 50 and the facilities are as good as any. There is no study hall as such but the lounge and dining room are used. There is a tutor system financed directly by the Athletic Department.

Dr. Knapp stated that there were apprehensions at first over the possible success of the separate hall. However, the results have been wonderful and he thinks that a separate hall is the best solution. They prefer the system. He said that the athletes must be well-supervised and they use one of the major sport coaches. He does not believe that the athletes feel as if they are set apart from the other students. He stated that the facilities must be good.

A & I (Mr. James Colvin, Business Manager)

A & I has all of the athletes housed with other resident students. However, the athletes are all on one floor. At one time, they were spread throughout the dormitories but it was found that the coaches couldn't get them together when needed for meetings and there was a study problem. So, they were moved to consecutive rooms on one floor and the move has alleviated the other problems. They use the same facilities as the other residents.

The Athletic Department is charged the same room and board rates as that for other students. The Athletic Department supplies the Business Manager with a list each month showing the number and the individual names of those who will be on scholarship during the period and pay the room and board charges for that number at the regular rates - \$315.00 per semester in the new, air conditioned dormitory.

During the season, the football players are fed a special meal after the others have been fed as practice extends beyond the normal eating time. Also, the players are given a special pre-game meal. The meal after the game is eaten out (night football games) and is paid by the dormitory. The players can go to one of two cafes and charge the meal by signing a ticket. The tickets are presented to the Business Manager who makes payment from Dormitory Funds. The meals, generally, are about \$1.75 but none go over \$2.00. There is a limit on the amount allowed - presumably \$2.00 with a recommendation that they not go over \$1.75.

There is no separate study hall for athletes but the department (Athletics) does provide tutors.

The head coach is real pleased with the entire operation except the price. He feels that it should be lower. They have a good morale. The athletes are not pampered and are considered regular students.

Mr. Colvin thinks that the system is very satisfactory from the over-all standpoint and does not feel that the dormitories should subsidize the Athletic Program.

Lamar State College of Technology (President McDonald)

At Lamar College, the athletes are split up among the entire resident student body in the dormitories. The athletes have roommates who are not athletes. The athletes eat the regular dormitory food except milk. They are allowed more milk and the Athletic Department pays for it.

INFORMATION ON HOUSING FOR WOMEN AND ATHLETES

Lamar State College of Technology (continued)

The after game meal is an expense of the Athletic Department and not of the dormitories. The amount is shown in the Athletic Department budget. There is no refund from the dormitories.

Dr. McDonald thinks that his system is quite satisfactory and the dormitories do not subsidize athletics.

The Athletic Department pays the regular room and board rates for all athletes who are on scholarships.

North Texas State College (President Matthews)

North Texas uses much the same system as Lamar. The Athletic Department pays the regular rates for room and board to the Dormitory System. The after game meal is handled in the same manner as that for Lamar. The system is considered to be sound and equitable and there is no subsidization of the Athletic Department by the Dormitory System.

Southwest Conference Schools

Dr. Davis volunteered to secure information from the Southwest Conference schools and plans to get the information at a meeting to be held December 8, 1960.

Separate Dormitory for Athletes?

The estimated cost made for the Chairman of the Athletic Department to construct a separate unit, on his estimate of space needs and facilities, totaled \$759,098.00. The estimate covered 75 rooms for approximately 150 athletes, two apartments and other facilities. The estimated cost of the bond requirements per year for 30 years was \$40,000. The cost of the Athletes' Dormitory at A & M, which is reported to be rather plush, is a bit under \$500,000.00 although it only provides space for 92 athletes.

It might be possible to reduce the requested amount of space and facilities for a unit at Texas Tech. Also, the loan could be made for 40 years and reduce somewhat the cost per year.

However, the financial aspects must be considered from an over-all standpoint in order to devise the best system for the department. The financial ability of the department in future years must be estimated to determine just how much the department can afford to pay and still muster a quality program for athletics.

According to information presented to the Texas Commission on Higher Education last spring, Texas Tech had 162 athletic scholarships at a cost of \$92,000.00 for room and board. The cost per athlete for room and board was \$568.00, almost as much as that for full board and room in the regular residence halls. As set out in Coach Weaver's letter of July 15, 1960, to the Athletic Council, the addition of the third floor of West would raise the amount of space to accommodate 146 athletes. However, during the past year on which the Commission based the report, the department did not have the third floor and at one time Dr. Davis estimated the number of athletes in the hall at an average of about 110. There are no figures to check, but if the assumption is correct, the cost to the department would be about \$836.00 for room and board per athlete housed in West Hall.

Another way to look at the figures would be to take the 146 spaces and divide the number into the \$12,000 paid to the Residence Hall System by the Athletic Department for rooms. The amount per athlete would be about \$9.13 per month for nine months, and the department uses the hall a bit longer than those for the regular students. A student in Doak Hall would have paid about \$31.14 per month for the same period of time. The comparison for the year would be \$282.30 for the regular student and \$85.59 for the athlete.

INFORMATION ON HOUSING FOR WOMEN AND ATHLETES

Separate Dormitory for Athletes (Continued)

However, the number of rooms taken, including the Supervisor's apartment, would total about 85 without counting the dining room, lounge and other public areas. Adding \$500.00 for the Supervisor's apartment to the \$12,000.00 and dividing the \$12,500.00 by 170 spaces, the result is a cost of \$8.17 per athlete. The other students pay for the areas other than rooms as the charge covers the bond requirements for the entire building.

The comparison has been made with Doak Hall in the above figures but there was no allowance made for bond requirements as the bonds have been paid. However, West and Doak Halls are pledged to the new halls and a justifiable amount for bond retirement should be included. If it were, the amount of subsidization would be even higher. All in all, the amount of subsidization by the Residence Hall System to the Athletic Department could run in the vicinity of \$50,000.00 per year.

Part of the question, as it has been for years, is whether or not the Residence Hall System should subsidize athletics. Dr. Davis, in his report and recommendation presented to the Board at the October 1960 meeting, mentioned that the College has an obligation to the Athletic Department for finances and seems to assume that the Residence Hall System should continue to provide it, at least until the Self-evaluation Survey is completed.

Assuming that the amount of subsidization amounts to approximately \$50,000.00 per year and that the Athletic Department should pay a reasonable proportionate part, how could the Athletic Department, looking at it selfishly from the Athletic Department's standpoint, afford to pay that amount to the Dormitory System when it would be possible to build and operate a building of their own for about the same amount of money?

If the Athletic Department were charged at the rate of \$30.00 per athlete per month, the cost for nine months for 110 athletes would be \$30,700.00, for 146 - \$39,420.00, and for 170 - \$45,900.00. It might, perhaps, be cheaper to build, and it is possible that the Athletic Department cannot afford to either build or to pay a reasonable rate for dormitory rooms.

An examination for the use of the present rooms in West indicates from the records available that one room is used for the Supervisor's office and three for his apartment, one for the head cook's office and two for her apartment, three single rooms for student coaches, and three for the kitchen - a total of 12 rooms. There is a good possibility that the number of rooms for non-athletes could be reduced and thereby lower the cost.

The number of allowed scholarships approved by the Athletic Council are: 110 for football, 20 for basketball, 12 for track, 6 for tennis, 6 for golf, 4 for baseball, and 4 for swimming - a total of 162.

In determining the financial ability of the Athletic Department in the years ahead, all reasonable avenues to save money should be carefully and fully explored. The complimentary ticket system could be checked for economies, the loss of athletes once they are recruited might be improved, the cost of food could be checked and compared with other schools to be sure that there are no economies being missed, etc. The entire financial structure should be examined in detail. Any economies which could be effected would add to the possibility of financing a separate dormitory. Also, a careful survey should be made to determine whether or not the number of proposed spaces in a new dormitory could be reduced without adversely affecting the program.

If the athletes were spread out in the other dormitories and ate in a central dining room, the number eating in the regular dining rooms would be reduced and thereby increase the costs of feeding.

If the athletes were to be interspersed with the other resident students and ate the regular dormitory food, there would be a difficult transition on the part of the dormitories with the athletes as the cost of food at the training table far exceeds the amount spent for nonathletes. If there were to be an

INFORMATION ON HOUSING FOR WOMEN AND ATHLETES

Separate Dormitory for Athletes (continued)

interspersation, it might be best to phase out the present system by starting the freshmen in the other dormitories. It might be possible to have the training table in the Union but such an operation would still leave the problem of fewer numbers for the regular dining rooms.

The Report of the Texas Commission on Higher Education shows that The University of Texas last year had 196 scholarships at an average over-all cost (not just room and board) of \$970.00, Texas Western - 70 at \$929.00, Texas Tech - 162 at \$920.00, North Texas - 103 at \$769.00, Lamar - 54 at \$986.00, A & I - 47 at \$730.00, and West Texas - 77 at \$812.00. The number shown for A & M was 241 at \$655.00 but the number included part-time scholarships and, therefore, is not readily comparable with the others.

There is a possibility that a good amount of money could be saved for the Athletic Department by providing the athletes with regular room and board. At \$586.00 per year, 110 scholarships would cost the department \$62,480.00, 146 - \$82,928.00, and 170 - \$96,560. Perhaps the advantage would be only financial as many problems would result for the Athletic Department and the residence halls.

Possible solutions to consider:

1. Intersperse the athletes with other students and provide room and board in regular halls.
2. Intersperse athletes and provide a central, in-season training table.
3. Intersperse athletes and provide a full-time training table.
4. Leave athletes where they are and take another men's hall for women.
5. Leave athletes where they are and triple men in the other section of West and take another men's hall for women.
6. Leave athletes where they are and build a new hall for women. (This could not be a solution for September 1961.)
7. Build a new hall for athletes at the expense of the Athletic Department. (This too could not be done by next fall.)
8. Build halls for athletes and women and allow regular men residents to return to West Hall. (This would be a possible solution for a long-range program.)

Campus Planning Committee
Attachment No. 276
Item 1375A

P I T T S M E B A N E & P H E L P S
Architects & Engineers
Beaumont, Texas

1872 Calder Avenue

November 21, 1960

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

Re: A Library Building
Texas Technological College
Lubbock, Texas

Dear Nolan:

Pursuant to our several recent telephone conversations we are pleased to summarize our recommendations, as follows:

Under the present contract, exposed architectural concrete is to be smooth finish and painted. This particular finish includes the columns and thin shell arches of the tower of the building and embraces a considerable area. The cornices of the one story wings and the cornice at the second floor line of the tower are limestone under the present contract.

In an effort to eliminate the maintenance problem that might arise from the painted concrete we have conducted a rather extensive investigation, with the contractor, to see if other finishes might be substituted for paint on the architectural concrete. In order to provide a consistency of finish and color, these investigations have contemplated the elimination of the limestone, from the exterior of the building, and the replacement with concrete finished to match the columns, shells, etc., of the tower.

Our investigations have been aimed at two possible finishes. Finish No. 1 would consist of concrete members being poured quite precisely and neatly and then sandblasted to provide a mechanical "key". All existing concrete scale would be removed. After the surfaces had been roughened by sand-blasting, they would be washed down to remove all dust or loose particles. Subsequently, these surfaces would be finished with new formula Oriental exterior stucco applied with a special spray machine. This is the same finish which we applied some twelve months ago to exterior concrete surfaces of the Administration Building at Lamar State College of Technology, and which has stood up quite excellently. The particular color for the subject project, however, would be tinted toward a warm ivory color, and would blend and closely approach the color of the limestone on the campus.

We are enclosing herewith two (2) copies of a letter we have received from the United States Gypsum Company dated November 18, 1960, relating to the subject.

Finish No. 2 would consist of concrete members being poured quite precisely and neatly. In order to provide a texture for the finished concrete, the forms for all exposed surfaces would be of embossed plywood. The actual concrete for the exposed members would consist of white cement, imported sand and local aggregate.

After some weeks of working with both possible finishes, the Contractor and our office have become apprehensive of Finish No. 2. There are many places where form ties would be required, and these would necessitate subsequent patching which would probably show as blemishes in the architectural concrete. In addition to this, we have some concern about the neatness of

the edges where the embossed plywood members would join. We have a further concern about protecting these surfaces and leaving them in first-class condition when the job is completed. This results from the fact that the exterior architectural concrete members would, of necessity, be poured in the early stages of the job and would require protection for many months.

In the instance of Finish No. 1, this can be applied toward the end of the job. Any damaged concrete surfaces can be patched prior to applying the finish, and in our opinion, this has a very distinctive advantage at only a reasonable increase in cost. After very careful consideration, it is our strong recommendation that we abandon the limestone cornices and painted concrete of the present contract, and that we substitute architectural concrete members which would be finished as described above in "Finish No. 1." Under this recommendation, the cornices for the one story wings would be poured of concrete-in-place except the frieze, which would be of precast concrete members so that flashing and waterproofing can be carried behind the frieze. The poured-in-place concrete members would have expansion and contraction joints at intervals of approximately 27 feet on center. Under this recommendation, the cornice at the second floor line of the tower would be of precast concrete members. These members would be placed in the forms prior to the pouring of the cantilevered concrete projection and would be anchored to the principal concrete members by protruding steel reinforcing bars. The joint between the precast and poured-in-place members would be separated by building paper. The purpose of this method of construction is to overcome the possibility of expansion and contraction joints which might appear in the exterior concrete members. Further, under this recommendation, the upper concrete columns and concrete shells would be poured as now detailed and specified. When all concrete is in place and the damaged areas have been carefully patched, the spray finish would be applied toward the conclusion of the project. Following this a heavy coating of silicone waterproofing would be applied to all such surfaces.

In addition to these recommendations, we suggest that consideration be given to the use of dark green or black polished Agradon for two sides of the columns in the Garden and Lobby areas. We further suggest that polished Agradon be used for the pool coping and polished or textured Agradon be used on the interior and exterior benches. As you know, the Contractor has quoted an optional credit for the use of run-in-place terrazzo for the interior stairs. This would be in lieu of precast terrazzo and it is our recommendation this credit be taken. We have had a proposal made for the use of Agradon exterior steps at an additional cost of \$2,248.00. In the event we are unable to include this additional cost, we would be quite satisfied with the present contract arrangement which provides run-in-place washed terrazzo steps on the exterior of the building. The color and texture of the washed terrazzo could be similar to Agradon sample which is now at the job site.

For your consideration, we summarize below the cost data relative to our recommendations discussed above.

Concrete Finishes, Exterior Steps, First Floor Columns, Etc.

Refer to J. M. Odom's letter to L. W. Pitts dated July 26,
1960 - copy enclosed.

Proposal #3C add sprayed stucco finish on all fascias, friezes, exterior precast columns, concrete vaults, etc. This includes the necessary scaffolding to permit plasterers to work in the area involved and includes sandblasting and cleaning concrete surfaces on which the spray plaster finish is to be applied.	Add - - - - -	\$13,320.00
Agradon columns. (Separate Proposal)	Add - - - - -	5,000.00
	Total Add- - - - -	\$18,320.00

Proposal #3A change cut stone fascias and frieze
to concrete - removable section of low cornice
to be precast concrete. Deduct - - - - - \$8,261.00

Proposal #3B omit painting of exterior concrete
columns, vaults, etc., specified in Base
Bid. Deduct - - - - - \$3,933.00

Use run-in-place terrazzo interior stairs.
See Owner's Option #D 1 f., Page 11 of
the contract. Deduct - - - - - \$4,107.00

Total Deductions - - - - - \$16,301.00

NET ADD- - - - - \$ 2,019.00

Proposal #5 for the application of one heavy coat of
colorless silicone waterproofing on all sprayed
plaster surfaces. Add- - - - - \$ 3,520.00

Total Add- - - - - \$ 5,539.00

Use polished Agradon pool coping and polished or
textured Agradon benches inside and outside.
(Separate Proposal). Deduct - - - - - \$ 1,364.00

Add- - - - - \$ 4,175.00

During conferences with Mr. Morton in Beaumont on
November 17, 1960, the Architects introduced, for the
first time, the use of precast concrete members at the
second floor cornice line at the tower. The use of
precast members in lieu of poured-in-place members at
this location. Add- - - - - \$ 1,160.00

Total Add - - - - - \$ 5,325.00

In the event that the College desired to use precast
Agradon for the exterior stairs in lieu of poured-
in-place terrazzo members. Add- - - - - \$ 2,248.00

Total Add - - - - - \$ 7,573.00

Note: Attention is invited to the fact that the following
deductions could be made from this analysis.

Use limestone columns as now specified, in lieu of
Agradon columns. Deduct - - - - - \$5,000.00

Use run-in-place washed terrazzo exterior stairs
in lieu of Agradon. Deduct - - - - - \$2,248.00

Total Deductions- - - - - \$7,248.00

By deducting this from the \$7,573, we have a
balance of \$325. This is the actual difference
in cost between using the recommended finish #1
and the contract as now written if credit is
taken for the run-in-place terrazzo interior stairs.

Possible offsetting savings:

Hardware Allowance	\$7,771.00
Actual Hardware Purchase	<u>5,112.10</u>

Savings

\$2,658.90

Mr. Nolan E. Barrick

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November 21, 1960

Muzak Credit - Approximate

Base Bid Credit	\$6,542.53	
North Basement	<u>1,224.05</u>	
		\$7,766.58
Provide conduit - approximate		\$2,000.00
Net Credit - approximate		<u>\$5,766.58</u>

A credit will also accrue to the College for the omission of the partitions in the basement between the North area and the Central Area.

Another credit will accrue to the College for the temporary partitions in lieu of the permanent partitions between the Central Area and the South Basement Area.

After reflecting on the matter of the Muzak, it is our definite recommendation that the complete Muzak system be omitted at this time; however, we firmly recommend that conduit be installed, exclusive of speaker cans in the initial building so that the system could be installed at some future date without inconvenience or excessive cost.

As discussed with you by telephone, the Contractor is fast approaching the construction of the concrete members around the one story cornice of the south wing. It is our understanding that he will be placing the steel in these members sometime the latter part of this week. In view of this, we would appreciate it very much if a decision could be made on the finish for the exterior concrete at the earliest possible time.

Cordially yours,

PITTS, MEBANE & PHELPS

/s/ L. W. Pitts

L. W. Pitts

LWP:la(d)

Enclosures

cc: J. M. Odom Construction Company (Attn: Mr. Charles Morton)
Mr. Richard R. Phelps

Campus Planning Committee
Attachment No. 277
Item No. 1375C

PITTS MEBANE & PHELPS . ARCHITECTS & ENGINEERS
1872 Calder Avenue Beaumont, Texas Telephone TE 2-2567

ARCHITECTS

Llewellyn W. Pitts, F.A.I.A.
Mike Mebane, A.I.A.

ENGINEERS

Russell R. Phelps,
F.A.S.C.E.

ASSOCIATES

Robert P. White, A.I.A.
Dorcy L. H. Watler, A.I.A.
Frank F. Beadle, Jr.

ASSOCIATES

J. B. Nichols
T. R. Ogden
John W. Godsey
E. M. Curtis, Jr.

November 22, 1960

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

Re: A Library Building
Texas Technological College
Lubbock, Texas

Dear Nolan:

This letter is written to refresh your memory on certain provisions in the construction contract for the subject project relating to deductive alternates which were to expire within a 90 day period and a six months period from date of contract. Please also refer to our Conference Memorandum of August 25, 1960.

Contract Article 8 - Owner's Option.

Part B

Items #1, #2 and #3 - These items relate to the color inserts in the solar screens. During my last trip to Lubbock, Mr. Morton agreed to postponing a decision on the use of colored inserts until a sample of the screen can be erected at the second floor line.

Item #4 - This item relates to painting behind the solar screens. Mr. Morton has agreed to a postponement of a decision on this item until a substantial amount of the screen can be erected as an aid in determining the amount to be painted.

Item #5 - This has been accepted.

Item #6 - This has been rejected.

Item #7 - This has been rejected.

Item #8 - This has been rejected.

Item #9 - This has been accepted.

Item #10 - No final action has been taken on finishing of the Third Floor. A decision should be reached on this in the near future.

Item #11 - This item is involved in the finishes for the exterior architectural concrete.

- Item #12 - This item is involved in the finishes for the exterior architectural concrete.
- Item #13 - This item has been rejected.
- Item #14 - This item has been rejected.
- Item #15 - This has been accepted.
- Item #16 - In my letter of November 21, 1960, we have recommended that only the empty conduit be included in the building at this time and that the remaining portion of the Muzak system be omitted. College action should be taken in the near future.
- Item #17 - It was decided to retain the heavier gauge lighting louvers and not to accept this item. 7
- Item #18 - Credit was taken for the painted lighting reflectors.

Part C

- Item #1 - Finish South Basement - As I understand it, no official action has been taken on this. It should be noted the contract is dated June 10, 1960 and that this option expires in six months from that date which is December 10, 1960. You will undoubtedly wish to have some official action taken on this item. In the event you feel that the Board is likely to finish this area, I suggest you immediately notify the contractor of such possibility and request an extension of time for several days to permit their action during the December 9th and 10th meeting.
- Item #2 - Finish North Basement - This decision has already been made.
- Item #3 - Finish Third Floor - Our comments on this are similar to Item #1.

Part D

- Item #1.a - This was rejected.
- Item #1.b - This was rejected.
- Item #1.c - This was rejected.
- Item #1.d - The contractor was agreeable to postponing decision on this item; however, you may be in a position to resolve the question at this time. We strongly recommend that the Display Cases be fabricated by the contractor following the details shown on our drawings and that you do not accept this deduction of \$3,200.
- Item #1.e - This was rejected.
- Item #1.f - We have recommended in our letter to you of November 21 that this credit be taken.
- Item #2.a - This has been rejected.
- Item #2.b - This has been accepted.
- Item #2.c - This has been rejected.
- Item #2.d - This has been rejected.

Mr. Nolan E. Barrick

Page 3

November 22, 1960

Item #2.e - This has been rejected.

Item #2.f - This item has been accepted and is predicated upon installation of isolators between dissimilar metal.

Item #2.g - This has been accepted.

Item #2.h - This has been rejected.

Item #2.i - This has been rejected.

Item #2.j - This has been rejected.

Item #2.k - This has been rejected.

Item #2.l - This has been rejected.

Item #2.m - This has been accepted.

Item #3.a - This has been rejected.

Item #3.b - This has been rejected.

Item #3.c - This has been rejected.

Item #3.d - This has been accepted.

Item #3.e - This has been rejected.

Item #3.f - This has been rejected.

Item #3.g - This has been rejected.

I believe the primary decisions to be made concern finishing the South Basement and the Third Floor and related alternates. Should you need any further comments on our part, please advise.

Cordially yours,

PITTS, MEEBANE & PHELPS

/s/ L. W. Pitts

L. W. Pitts

LWP:la(d)

cc: J. M. Odom Construction Company (Attn: Mr. Morton)
Richard R. Phelps

P.S. It should be noted that we have an alternate in the Hardware Specifications relating to the furnishing of the hardware for the Third Floor. Obviously, the decision relating to finish of this area will bear upon this alternate.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE
Meeting No. 97 December 6, 1960

A meeting of the Campus Planning Committee was held on Tuesday, December 6, 1960, at 2:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1389. Agricultural Plant Sciences Building

Extra for Millwork

Mr. Barrick reported that there has been insufficient time to have bids ready for the Board Meeting, as hoped. The CPC voted to request the Board to authorize the Building Committee to award the contract between meetings.

1390. Architecture-Computer Building

A. Contract Date

The CPC voted to correct the contract date of August 15, 1960, as shown in Item No. 1369A, page 773, by changing it to August 31, 1960, which is the actual date.

B. Final Acceptance Date

Mr. Barrick presented a letter, dated December 2, 1960, from the Project Architects. The letter is attached to and made a part of the Minutes. Attachment No. 278, page 788)

The Project Architects recommended an extension of time of 58 calendar days for bad weather and an additional 27 days for the brick strike. After reviewing all of the information available, the CPC voted to request the Project Architect to present his recommendations in writing. The recommendations are to be based on the original number of days requested by the contractor and show by days the condition of the weather, the status of construction, accepted or rejected, and the reasoning. The architect is requested to present the information to the CPC not later than Thursday, December 8, 1960, as there must be action taken this week, if a final payment is to be made to the contractor.

1391. Chemical Engineering Building

Air Conditioning

President Goodwin has the request under consideration.

1392. Home Economics

After a very great deal of discussion, the CPC, by majority vote, decided not to take action but to continue the study. Mr. Barrick and Colonel West are to make a study as set out in Item No. 1373, page 775, and present their findings in writing as soon as time permits.

1393. Housing

A. Other (Women and Athletes)

1. Athletes

The accumulation of information and the study are to continue with a recommendation to be made at a future date when more information is available, with particular emphasis on the anticipated financial ability of the Athletic Department in the years ahead.

Coach Robison and any others designated by him are requested to work with Mr. Taylor and Mr. Price in an attempt to provide the best possible financial prediction.

1393. Housing (continued)Other (Women and Athletes)2. Women

As the most pressing aspect of the study is to make a recommendation of housing for women, the CPC voted to recommend that a Men's Residence Hall be made available in September, 1960, to house women on a temporary basis. Either Sneed or West would be the most feasible, with preference running towards West. More time is needed to study as many of the ramifications as possible in an attempt to make the best over-all recommendation for the College.

1394. LibrarySix Months Alternates

The CPC voted to recommend the acceptance of the alternates set out in Mr. Pitts' letter of November 22, 1960, which is shown as Attachment No. 277, page 784.

Also, the CPC voted to call to the attention of the Board the fact that the six months options on the third floor and south basement expire shortly after the meeting of the Board on December 10, 1960.

1395. Meats LabEquipment

The information on which to base a recommendation was not available. A recommendation will be presented at a future date.

1396. Mechanical Engineering ShopsMoving

Mr. McElroy reported that the requested bidders have not had time to inspect the equipment and submit a bid. An attempt will be made to have the bids by Thursday in order to make a recommendation to the Building Committee.

1397. Other ItemsX-2 Building1. Custodial Storage

Mr. Libby reported that he has been using one end of X-5 to store a great deal of his equipment and supplies. With X-5 being moved in the near future, he requested the use of X-2 until the new Physical Plant Facilities are available.

2. Sale

Colonel West reported that Mr. Oliphint has submitted a bid of \$700.00 for the building and that he is in no hurry to take delivery.

The CPC voted to recommend sale of the building to Mr. Oliphint, the high bidder, for the sum of \$700.00, delivery to be taken after Mr. Libby has moved his materials to the new Physical Plant Facilities.

1398. Physical Plant FacilitiesEquipment

As the first requirement for the building is shelving, the CPC voted to recommend the purchase of the attached list of shelving and some pallets at an estimated cost of \$19,888.87. The rest of the equipment and, perhaps, a bit more shelving will be requested later when there is more time to consider the needs. Mr. McElroy's recommendation and the list are attached to and made a part of the Minutes. (Attachment No. 279, page 789)

1398. Physical Plant Facilities (continued)B. Telephone Service

Mr. Mason has revised and issued the specifications for bids which are to be opened at 2:00 p.m., December 15, 1960. It is recommended that the Vice President and Comptroller be allowed to award the contract as it will be well under \$1,000, or that the Building Committee be authorized to make the award between meetings.

1399. Relocation of Farm FacilitiesPoultry

After consideration, the CPC voted to recommend approval of the final plans and specifications, with bids to be taken in time for presentation to the Board at the meeting on February 11, 1960.

The plans and specifications have been prepared in accordance with the agreement and have been checked with the Department.

1400. Student UnionChange Orders

Mr. Barrick reported that the architects will present some figures to the CPC for consideration on Thursday, December 9, 1960. Both the architects and the contractor have had to get some figures from out-of-town. They will present all of the firm figures available and will make estimates, as accurately as possible, on the other items. The information will enable the CPC to make a recommendation to the Building Committee on most of the items. Perhaps an arrangement could be made with the Board for the CPC to approve the other items not to exceed a specific amount or, if there are a good many items, for the Building Committee to make the award between meetings.

1401. Women's GymTennis Courts

Final inspection on the courts is scheduled for Thursday, December 8, 1960, and, if found acceptable, a recommendation is to be made to the Building Committee on December 9, 1960.

M. L. Pennington
Chairman

The meeting adjourned at 5:05 p.m. with the next meeting to be held at 3:00 p.m. on Wednesday, December 7, 1960. The final meeting of the CPC before the Building Committee Meeting is to be held at 2:00 p.m. on Thursday, December 8, 1960.

Campus Planning Committee
Attachment No. 278
Item No. 1390-B

HAYNES & KIRBY
Architects - Engineers
Lubbock, Texas

December 2, 1960

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

Re: Architecture-Computer Building

Dear Mr. Barrick:

Warner Construction Company has requested a total of 110 calendar days extension to the time of completion for this project. This extension is based upon 83 days lost for extremely bad weather and 27 days lost because of masons strike. This request is accompanied by documental evidence from local weather bureau records.

We have analyzed the evidence by reference to our own job progress records, and with the consideration of a normal number of days loss to be expected during the periods, have determined that an extension of time of 58 calendar days for bad weather is allowable.

During the 27 day masons strike there was some progress made by other trades; however, we do not believe this progress was of a nature that could offset the delay caused by the late completion of the masonry work and a 27 calendar day extension of time for this reason should be granted.

We recommend the extension of time of completion of 85 calendar days (58 plus 27). This would make completion date November 24, 1960.

Initial final inspection of the project was made November 28, 1960. Except for minor items the project is complete and owner has occupied the building since December 1, 1960.

Yours very truly,

HAYNES & KIRBY

L. H. Kirby

LHK:bmm(g)

Campus Planning Committee
Attachment No. 279
Item No. 1398

Texas Technological College
Lubbock, Texas

Office of the Vice President
and Comptroller

December 6, 1960

M E M O R A N D U M

TO: Mr. M. L. Pennington

The Physical Plant Building will provide facilities for the Texas Tech Press, Campus Security, Shipping and Receiving, Central Warehouse, Building Maintenance, Ground Maintenance, Custodial Services and the supporting Maintenance Shops. These departments are moving from facilities which will not be reoccupied by other departments; therefore, they are taking with them the furniture and equipment on hand. The equipment on hand will represent only a small portion of that required in the new facilities because these departments have been operating with more or less improvised facilities and equipment.

Due to some revisions in the organization of the Maintenance Departments and the establishing of the Shipping and Receiving, and Central Warehouse Departments, it is at this time difficult to plan or determine the exact furniture and equipment requirements in the new location.

In the interest of economy, we are attempting to secure through the Surplus Property Office as much of this equipment as possible, but it looks as if the only thing we will be able to secure through this Agency will be a small amount of furniture.

These departments do maintain substantial inventories and before they can occupy the new facilities, it will be necessary to provide storage equipment for these inventories.

I would like to suggest that the CPC recommend to the Board that the equipment for these new facilities be purchased in two phases. The first phase being the necessary storage equipment to allow for the transfer of inventories and the second phase to provide for equipment which will be needed in the new facilities but cannot be determined at this time.

In line with this suggestion, attached is a list of shelving and storage equipment which will provide the necessary storage for the inventories to be transferred.

/s/ D. M. McElroy

D. M. McElroy
Assistant Comptroller

DMM:d (g)
Enclosure
cc: Members of the Campus Planning Committee

PHASE #1 FOR PHYSICAL PLANT BUILDING

CENTRAL WAREHOUSE

Item	Description	Quantity (Sections)	Unit Price	Cost
1	Metal Shelving (15 ⁴ - 3'x1'x7') (14 - 3'x1 ¹ / ₂ 'x7') (14 - 3'x2'x7')	182	\$ 66.00	\$ 12,012.00
2	Slotted Angle & Plywood Shelving (10'x3'x7')	24	91.67	2,200.08
3	Wooden Pallet (3'x4')	25	4.50	<u>112.50</u>
Subtotal - - -				\$ 14,324.58
CARE AND MAINTENANCE OF GROUNDS SHOPS				
4	Parts Bins, Lyon #3815	2	\$ 70.15	\$ 140.30
5	Parts Bins, Lyon #3810	4	50.40	201.60
6	Parts Bins, Lyon #3805	2	45.20	90.40
7	Closed Type Shelving, Lyon #3051	16	43.55	696.80
8	Mounting Panels, Lyon #4210	12	5.95	71.40
9	Sorting File, Lyon #1300	1	15.90	15.90
10	Tool Cabinet - Bench, Lyon #3000	1	37.85	37.85
11	Tool Hanging Cabinet, Lyon #3020	1	29.65	29.65
12	Slotted Angle Gen. Storage Rack (Acme Detail #16)	1	175.41	175.41
13	Slotted Angle Gen. Storage Rack (Acme Detail #17)	1	164.70	164.70
14	Slotted Angle Garden Tool Rack (Acme Detail #18)	1	42.10	42.10
15	Slotted Angle Garden Tool Rack (Acme Detail #19)	1	41.00	41.00
16	Slotted Angle Workbench (Acme Detail #20)	1	81.53	81.53
17	Slotted Angle Workbench (Acme Detail #21)	1	61.08	61.08
18	Slotted Angle Workbench (Acme Detail #22)	3	43.85	131.55
19	Slotted Angle Welding Bench (Acme Detail #23)	1	58.96	58.96
20	Slotted Angle Point and Sign Storage Rack (Acme Detail #24)	1	149.39	<u>149.39</u>
Subtotal - - -				\$ 2,189.62
21	Metal Shelving	26	\$ 98.03	\$ 2,548.78
222	Slotted Angle	13	63.53	<u>825.89</u>
Subtotal - - -				\$ <u>3,374.67</u>
TOTAL - - - - -				\$ <u><u>19,888.87</u></u>

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 98 December 7, 1960

A meeting of the Campus Planning Committee was held on Wednesday, December 7, 1960, at 3:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present. Also, Mr. Robert C. Messersmith and Mr. M. L. Stiles, representatives of the Project Architects, were present.

1402. Science Building

Final Plans and Specifications

The representatives of the Project Architects presented the final plans and specifications, which were discussed at length. The framing, floor plan, roof, mechanical equipment, and the departmental equipment layout were examined carefully. In addition, such items as the space to be allocated to the contractor for material storage, availability of utilities, pedestrian traffic flow, ingress and egress, walks, method of delivering materials to the project, parking for construction workers' vehicles, access walks, protection of trees that are to remain, access to the construction area by the contractor without interfering with the restricted parking lot, etc., were considered.

After viewing the equipment layout, the CPC expressed apprehension over the possible cost of equipment in view of the budgeted amount.

Due to the size of the contract, there is some question of the advisability of taking multiple bids with a single contract award as was done on the Library. It was agreed that the question should be discussed with the Building Committee on Friday, along with the steel question.

In view of past experiences, the Project Architects were requested to stand by during the meeting of the Building Committee in case the Committee wished to see them.

After long consideration, the CPC voted to recommend the plans and specifications, subject to final polishing, and the taking of bids in time for presentation to the Board at the meeting on February 11, 1961, for a contract award.

M. L. Pennington
Chairman

The meeting adjourned at 6:10 p.m. The next meeting is to be held at 2:00 p.m. on December 8, 1960.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 99 December 8, 1960

A meeting of the Campus Planning Committee was held on Thursday, December 8, 1960, at 2:00 p.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1403. Architecture-Computer Building

A. Final Acceptance

Mr. Barrick presented the written recommendation from the Project Architects which is attached to and made a part of the Minutes. (Attachment No. 280, page 793)

After consideration, the CPC voted to accept the recommendation. According to the contract, the project was to be completed by August 31, 1960. The recommended final acceptance date is December 1, 1960. The recommended time extension totals 85 days. If the recommendations are approved by the Board, the contractor will owe the College for 6 days in excess of the total amount allowed at the liquidated damages rate shown in the contract.

B. Moving

As the kiln was omitted in the original contract for equipment moving, separate bids were taken and are as follows:

B & H Warehouse, Inc. - - - - -	\$150.00
Armstrong Warehouse and Transfer, Inc.-	300.00
Luther Transfer and Storage - - - - -	No bid
Hub City Moving and Storage - - - - -	Cost, plus 20%

The CPC voted to recommend the acceptance of the low bid from B & H Warehouse, Inc., in the amount of \$150.00 to move the kiln from X-5 to the basement of the new Architecture-Computer Building, the amount to be paid from the Unappropriated Balance.

1404. Boiler and Housing

A. Final Acceptance

1. Housing

The housing is not ready for final acceptance as the roof is still leaking and the cracked glass has yet to be replaced.

2. Boiler

The stack has been painted but the check out on the boiler is still under way.

1405. Mechanical Engineering ShopsA. Moving

Bids were taken to move the Mechanical Engineering equipment from the old Mechanical Engineering Shops to the new facilities and place it as desired.

The bids are as follows:

B & H Warehouse, Inc. - - - - -	\$5,925.00
Luther Transfer and Storage, Inc. - - - - -	7,282.00
Armstrong Warehouse and Transfer, Inc. - - - - -	14,925.00
Hub City Moving and Storage - - - - -	Cost plus 20%

The CPC voted to accept the low bid of B & H Warehouse, Inc., in the amount of \$5,925.00, the amount to be paid from the Unappropriated Balance.

Mr. Barrick reported that the construction contract provides for the reconnection of all equipment but not for the disconnection. As it is desirable for the contractor who will reconnect the equipment to disconnect it, it was agreed to request a price for disconnecting the existing equipment from the Clark Electric Company, the subcontractor. The Clark Electric Company will reconnect the equipment in the new facilities for the contractor.

1406. Student UnionChange Orders

The architects have not completed the preparation of the costs to upgrade the finishes of the building, in keeping with the approval of the Board of Directors.

1407. Women's GymTennis Courts

The final inspection revealed that there is one section which needs regrinding and the concrete cylinders are to be broken tomorrow or the next day as the final test on the quality of concrete.

Subject to satisfactory reports on both of the above, the CPC voted to recommend the final acceptance date as December 8, 1960.

M. L. Pennington
Chairman

The meeting adjourned at 3:05 p.m. The next meeting is to be held with the Building Committee at 2:30 p.m. on December 9, 1960, in the Office of the President.

Campus Planning Committee
Attachment No. 280
Item No. 1403-A

ARCHITECTURE-COMPUTER BUILDING

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

SCHEDULE OF WORK DAYS LOST

HAYNES & KIRBY
Architects-Engineers

<u>Date Claimed</u>	<u>Day of Week</u>	<u>Reason</u>	<u>Temperature</u>		<u>Departure From Normal</u>	<u>Job Status</u>	<u>Recommendation</u>
			<u>Low</u>	<u>High</u>			
11-13-59	Friday	Cold	22	50	-14 degrees	Excavation	Grant
11-14-59	Saturday	Cold	17	37	-22 degrees	Excavation	Grant
11-16-59	Monday	Cold	17	47	-16 degrees	Excavation	Grant
11-17-59	Tuesday	Cold	10	41	-22 degrees	Excavation	Grant
11-18-59	Wednesday	Cold	20	65	- 4 degrees	Excavation	Not Grant
11-26-59	Thursday	Cold	22	45	-11 degrees	Placing Steel	Grant
11-27-59	Friday	Cold	15	45	-15 degrees	Placing Steel	Grant
11-28-59	Saturday	Cold	12	55	-10 degrees	Placing Steel	Grant
12-5-59	Saturday	Cold	20	45	- 9 degrees	Pouring Ftgs.	Grant
12-14-59	Monday	Rain	32	52		Forming	Grant
12-15-59	Tuesday	Rain	32	42		Forming	Grant
12-16-59	Wednesday	Rain	38	43		Forming	Grant
12-17-59	Thursday	Rain	39	50		Forming	Grant
12-18-59	Friday	Cold	31	52		Pouring Conc.	Not Grant
12-31-59	Thursday	Rain	33	39		Forming	Grant
1-2-60	Saturday	Cold	22	43	- 6 degrees	Forming	Grant
1-5-60	Tuesday	Snow	23	37	- 8 degrees	Forming	Grant
1-6-60	Wednesday	Cold	7	35	-17 degrees	Forming	Grant
1-7-60	Thursday	Cold	24	45	- 3 degrees	Forming	Not Grant
1-15-60	Friday	Cold	22	45	- 4 degrees	Forming	Not Grant
1-16-60	Saturday	Snow	27	33	- 9 degrees	Forming	Grant
1-18-60	Monday	Cold	15	28	-17 degrees	Basem. Walls	Grant
1-19-60	Tuesday	Cold	10	32	-18 degrees	Basem. Walls	Grant
1-20-60	Wednesday	Cold	12	46	-10 degrees	Grade Beams	Grant
1-21-60	Thursday	Cold	17	56	- 2 degrees	Grade Beams	Not Grant
1-22-60	Friday	Cold	18	33	-13 degrees	Grade Beams	Grant
1-23-60	Saturday	Cold	17	30	-15 degrees	Grade Beams	Grant
1-28-60	Thursday	Sand	30	56		Grade Beams	Grant
2-3-60	Wednesday	Snow	31	50		Basem. Slab	Not Grant
2-4-60	Thursday	Snow	33	40		Basem. Slab	Grant
2-9-60	Tuesday	Wind	43	69		Basem. Slab	Grant
2-11-60	Thursday	Cold	24	43	- 9 degrees	Grade Beams	Grant
2-12-60	Friday	Cold	21	49	- 8 degrees	Grade Beams	Grant
2-13-60	Saturday	Cold	21	61	- 2 degrees	Grade Beams	Not Grant
2-15-60	Monday	Cold	21	55	- 6 degrees	Grade Beams	Not Grant
2-17-60	Wednesday	Snow	23	42	-11 degrees	1st Fl. Cols.	Grant
2-18-60	Thursday	Cold	20	46	-11 degrees	1st Fl. Cols.	Grant
2-19-60	Friday	Cold	26	52	- 5 degrees	1st Fl. Cols.	Not Grant
2-22-60	Monday	Cold	19	63	- 4 degrees	2nd Fl. Slab	Grant
2-23-60	Tuesday	Cold	11	35	-22 degrees	2nd Fl. Slab	Grant
2-24-60	Wednesday	Snow	1	18	-35 degrees	2nd Fl. Slab	Grant
2-25-60	Thursday	Cold-Snow	8	33	-32 degrees	2nd Fl. Slab	Grant
2-26-60	Friday	Cold-Snow	11	25	-27 degrees	2nd Fl. Slab	Grant
2-27-60	Saturday	Cold-Snow	19	46	-12 degrees	2nd Fl. Slab	Grant
2-29-60	Monday	Cold-Snow	14	27	-25 degrees	2nd Fl. Slab	Grant

Schedule of Work Days Lost (continued)

<u>Date Claimed</u>	<u>Day of Week</u>	<u>Reason</u>	<u>Temperature</u>		<u>Departure From Normal</u>	<u>Job Status</u>	<u>Recommendation</u>
			<u>Low</u>	<u>High</u>			
3-1-60	Tuesday	Cold-Snow	17	25	-25 degrees	2nd Fl. Slab	Grant
3-2-60	Wednesday	Cold-Snow	16	32	-22 degrees	2nd Fl. Slab	Grant
3-3-60	Thursday	Cold-Snow	11	41	-20 degrees	2nd Fl. Slab	Grant
3-4-60	Friday	Cold-Snow	15	29	-24 degrees	2nd Fl. Slab	Grant
3-5-60	Saturday	Cold-Snow	16	29	-24 degrees	2nd Fl. Slab	Grant
3-7-60	Monday	Cold-Snow	25	41	-14 degrees	Forming	Grant
3-8-60	Tuesday	Sandstorm	32	61		Forming	Not Grant
3-11-60	Friday	Cold	27	52	- 9 degrees	Forming	Grant
3-12-60	Saturday	Cold	26	53	- 9 degrees	Forming	Grant
3-15-60	Tuesday	Cold-Wind	30	53	- 7 degrees	Forming	Not Grant
3-16-60	Wednesday	Cold	23	54	-11 degrees	Forming	Grant
3-17-60	Thursday	Cold	36	50	-12 degrees	Forming	Grant
3-24-60	Thursday	Rain	36	58	- 5 degrees	Forming	Not Grant
3-28-60	Monday	Sand	46	17		3rd Floor	Not Grant
3-29-60	Tuesday	Sand	45	71		3rd Floor	Not Grant
3-31-60	Thursday	Sand	46	83		3rd Floor	Not Grant
4-26-60	Tuesday	Sandstorm	46	77		3rd Floor	Not Grant
4-27-60	Wednesday	Rain	48	72		3rd Floor	Grant
4-28-60	Thursday	Sandstorm	52	83		3rd Floor	Grant
5-5-60	Thursday	Sandstorm	47	78		Laying Brick	Grant
5-18-60	Wednesday	Rain	58	90		Laying Brick	Grant
5-24-60 to							Grant 27
6-21-60		Strike					Cal. Days
6-24-60	Friday	Rain	61	79		Laying Brick	Grant
7-5-60	Tuesday	Rain	64	72		Masonry Work	Grant
7-6-60	Wednesday	Rain	64	69		Masonry Work	Grant
7-7-60	Thursday	Rain	63	78		Masonry Work	Grant
7-8-60	Friday	Rain	65	84		Masonry Work	Not Grant

SUMMARY

<u>Month</u>	<u>Contractor's Request Working Days</u>	<u>Recommended Extension Working Days</u>
November, 1959	8	7
December, 1959	7	6
January, 1960	13	10
February, 1960	17	13
March, 1960	16	10
April, 1960	3	2
May, 1960	2	2
June, 1960	1	1
July, 1960	4	3
Total	71	54
Calendar Days	83	63
Strike	27	27
Total	110 Days	90 Days
Credit for Above Normal Weather:		5 Days
Net Extension Allowable		85 Days

M.E.P

AGENDA FOR A JOINT MEETING OF THE BUILDING COMMITTEE
AND CAMPUS PLANNING COMMITTEE AT 2:30 P.M.
IN THE OFFICE OF THE PRESIDENT
DECEMBER 9, 1960

1408. Agricultural Plant Sciences

A. Extra for Millwork(\$8,640)

As there has been insufficient time to revise the drawings and have the bids ready for the Building Committee Meeting, consider the request of the Campus Planning Committee for the Board to authorize the Building Committee to award the contract between Board Meetings. OK

1409. Architecture-Computer Building

A. Final Acceptance Date

Consider the recommendation of the Campus Planning Committee to grant the contractor an extension of time in the amount of 85 days as recommended by the Project Architect and set out in the attachment, and to approve December 1, 1960, as the final acceptance date. OK

If the recommendations are accepted, the contractor will be charged with liquidated damages for six days.

- B. Consider the recommendation to change the number of drafting tables from 50 to 75. The original request was for 100 but the amount was reduced to 50 due to the estimated cost. The original cost estimate was \$50 per table but the price will be approximately \$30. The increased quantity would not cost as much as the original estimate for the 50. OK

C. Moving

Consider the recommendation of the CPC to award the moving contract to B & H Warehouse, Inc., of Lubbock, the low bidder, in the amount of \$1,197.50 plus \$15.00 for insurance above the normal amount to be paid from the Unappropriated Balance. OK

D. Moving Kiln

Consider the recommendation of the Campus Planning Committee to accept the low bid of the B & H Warehouse, Inc., in the amount of \$150 to move the kiln from X-5 to the basement of the new facilities, the amount to be paid from the Unappropriated Balance. OK

due for completion Aug. 31, '60

1410. HousingWomen

Consider the recommendation of the Campus Planning Committee that one of the Men's Residence Halls be made available in September, 1960, to house women on a temporary basis. (The preference is for West Hall but there is a good bit of investigation needed before a specific recommendation is made.)

1411. LibraryA. Alternates

Consider the recommendation of the Campus Planning Committee that the proposal set out in Mr. Pitts' letter of November 21, 1960, be approved. (A copy of the letter is attached.)

B. Six Months Alternates

Consider the recommendation of the Campus Planning Committee to accept the alternates set out in Mr. Pitts' letter of November 22, 1960. (The letter is attached.)

(Attention of the Building Committee is called to the fact that the six months options will expire shortly after the Board Meeting. The options include the addition of the third floor and south basement. This is only informational as funds are not available for the option.)

C. Lights

Consider the following recommendation from the Campus Planning Committee as set out in Mr. Pitts' letter dated October 31, 1960:

"(a) All fluorescent lighting fixtures will be purchased from the Edwin F. Guth Company and all will be equipped with 'A' rated ballasts as manufactured by the Advanced Ballast Company.

"(1) Each fixture shall have 11 striated heavy gauge Alzak finish aluminum cross louvers providing a side cutoff of approximately 40° and a longitudinal cutoff of approximately 30°.

"(2) Generally, the Alzak reflectors were omitted under an earlier decision and, therefore, the reflectors for florescent fixtures will be of the painted type. This paint shall be a special Acrylic material.

1411. Library (continued)C. Lights

- "(3) The various metal portions of the fixture shall be sealed with a special compound made for this purpose.
- "(4) It is to be noted that the requirements set forth above will apply to the Type 'A' and 'B' fixtures in the Garden Area 102 except that these particular fixtures will retain the Alzak finish for reflectors.

The use of the Guth fixture will be at no extra cost to the College.

1412. Mechanical Engineering ShopsMoving

Consider recommendation of the Campus Planning Committee to award the contract to the B & H Warehouse, Inc., of Lubbock, the low bidder, in the amount of \$5,925.00, the amount to be paid from the Unappropriated Balance. (Due to the cost involved, it was recommended that the insurance coverage be tied in with a contract to be prepared by the mover.)

OK

1413. Other ItemsA. X-1 Building

Confirm the sale of X-1 to the Lorenzo Independent Public School District for the sum of \$1,500.00; the College to clear the site.

OK

B. X-5 Building

Confirm the sale of X-5 to the Lorenzo Jaycees for the sum of \$1,000; the College to clear the site.

OK

C. X-2 Building

Consider the recommendation of the Campus Planning Committee that X-2 be sold to Mr. A. E. Oliphint of Lubbock for the sum of \$700; removal to be made within a reasonable time after the Department of Custodial Services has removed the materials stored in the building to the new Physical Plant Facilities.

OK

1414. Physical Plant FacilitiesEquipment

Consider the recommendation of the Campus Planning Committee to purchase the attached list of shelving and some pallets at an estimated cost of \$19,888.88. (There will be another request later when there is more time for preparation and study. The requested equipment must be installed in order to move into the facilities.)

OK

pull out
for list

1415. Relocation of Farm FacilitiesA. Agronomy

Consider the recommendation of the Campus Planning Committee that the final acceptance date be November 11, 1960. OK

B. Horticulture

Consider the recommendation of the Campus Planning Committee that the final acceptance date be November 11, 1960. OK

C. Poultry

Consider the recommendation of the Campus Planning Committee for approval of the final plans and specifications. OK

1416. Science Building

Consider the recommendation of the Campus Planning Committee for approval of the final plans and specifications, subject to final polishing, and the taking of bids in time for presentation to the Board at the meeting on February 11, 1960, for a contract award. OK

1417. Student UnionChange Orders

The architects have not completed the preparation of the costs to upgrade the finishes as approved by the Board. However, it probably will be necessary to secure approval before the next meeting in order not to delay construction progress.

Consider requesting the Board to authorize the Building Committee to act between meetings. OK

1418. UtilitiesA. Tunnel and Other Utilities (Anthony Company of Lubbock)

Consider the recommendation of the Campus Planning Committee that the final acceptance date be November 17, 1960. OK

B. Switch House

Consider the recommendation of the Campus Planning Committee that the final acceptance date be November 10, 1960. OK

1419. Walks, Drives and Parking LotsContract with Mr. Elmer Calhoun

On October 21, 1960, Item No. 1340-B, the Board awarded a contract to Mr. Calhoun in the approximate amount of \$10,650.20. Item No. 22 in tomorrow's Agenda for the Board calls for approval of the contract instrument. OK

Consider approval of the contract. (It is the standard form for all such contracts.)

1420. Women's GymTennis Courts

Consider the recommendation of the Campus Planning Committee that the final acceptance date be December 8, 1960, subject to the satisfactory grinding of one section and acceptable reports from the last cylinders which are scheduled to be broken in the next day or so. OK

ARCHITECTURE-COMPUTER BUILDING

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

SCHEDULE OF WORK DAYS LOST

HAYNES & KIRBY
Architects-Engineers

<u>Date Claimed</u>	<u>Day of Week</u>	<u>Reason</u>	<u>Temperature</u>		<u>Departure From Normal</u>	<u>Job Status</u>	<u>Recommendation</u>
			<u>Low</u>	<u>High</u>			
11-13-59	Friday	Cold	22	50	-14 degrees	Excavation	Grant
11-14-59	Saturday	Cold	17	37	-22 degrees	Excavation	Grant
11-16-59	Monday	Cold	17	47	-16 degrees	Excavation	Grant
11-17-59	Tuesday	Cold	10	41	-22 degrees	Excavation	Grant
11-18-59	Wednesday	Cold	20	65	- 4 degrees	Excavation	Not Grant
11-26-59	Thursday	Cold	22	45	-11 degrees	Placing Steel	Grant
11-27-59	Friday	Cold	15	45	-15 degrees	Placing Steel	Grant
11-28-59	Saturday	Cold	12	55	-10 degrees	Placing Steel	Grant
12-5-59	Saturday	Cold	20	45	- 9 degrees	Pouring Ftgs.	Grant
12-14-59	Monday	Rain	32	52		Forming	Grant
12-15-59	Tuesday	Rain	32	42		Forming	Grant
12-16-59	Wednesday	Rain	38	43		Forming	Grant
12-17-59	Thursday	Rain	39	50		Forming	Grant
12-18-59	Friday	Cold	31	52		Pouring Conc.	Not Grant
12-31-59	Thursday	Rain	33	39		Forming	Grant
1-2-60	Saturday	Cold	22	43	- 6 degrees	Forming	Grant
1-5-60	Tuesday	Snow	23	37	- 8 degrees	Forming	Grant
1-6-60	Wednesday	Cold	7	35	-17 degrees	Forming	Grant
1-7-60	Thursday	Cold	24	45	- 3 degrees	Forming	Not Grant
1-15-60	Friday	Cold	22	45	- 4 degrees	Forming	Not Grant
1-16-60	Saturday	Snow	27	33	- 9 degrees	Forming	Grant
1-18-60	Monday	Cold	15	28	-17 degrees	Basem. Walls	Grant
1-19-60	Tuesday	Cold	10	32	-18 degrees	Basem. Walls	Grant
1-20-60	Wednesday	Cold	12	46	-10 degrees	Grade Beams	Grant
1-21-60	Thursday	Cold	17	56	- 2 degrees	Grade Beams	Not Grant
1-22-60	Friday	Cold	18	33	-13 degrees	Grade Beams	Grant
1-23-60	Saturday	Cold	17	30	-15 degrees	Grade Beams	Grant
1-28-60	Thursday	Sand	30	56		Grade Beams	Grant
2-3-60	Wednesday	Snow	31	50		Basem. Slab	Not Grant
2-4-60	Thursday	Snow	33	40		Basem. Slab	Grant
2-9-60	Tuesday	Wind	43	69		Basem. Slab	Grant
2-11-60	Thursday	Cold	24	43	- 9 degrees	Grade Beams	Grant
2-12-60	Friday	Cold	21	49	- 8 degrees	Grade Beams	Grant
2-13-60	Saturday	Cold	21	61	- 2 degrees	Grade Beams	Not Grant
2-15-60	Monday	Cold	21	55	- 6 degrees	Grade Beams	Not Grant
2-17-60	Wednesday	Snow	23	42	-11 degrees	1st Fl. Cols.	Grant
2-18-60	Thursday	Cold	20	46	-11 degrees	1st Fl. Cols.	Grant
2-19-60	Friday	Cold	26	52	- 5 degrees	1st Fl. Cols.	Not Grant
2-22-60	Monday	Cold	19	63	- 4 degrees	2nd Fl. Slab	Grant
2-23-60	Tuesday	Cold	11	35	-22 degrees	2nd Fl. Slab	Grant
2-24-60	Wednesday	Snow	1	18	-35 degrees	2nd Fl. Slab	Grant
2-25-60	Thursday	Cold-Snow	8	33	-32 degrees	2nd Fl. Slab	Grant
2-26-60	Friday	Cold-Snow	11	25	-27 degrees	2nd Fl. Slab	Grant
2-27-60	Saturday	Cold-Snow	19	46	-12 degrees	2nd Fl. Slab	Grant
2-29-60	Monday	Cold-Snow	14	27	-25 degrees	2nd Fl. Slab	Grant

Schedule of Work Days Lost (continued)

<u>Date Claimed</u>	<u>Day of Week</u>	<u>Reason</u>	<u>Temperature</u>		<u>Departure From Normal</u>	<u>Job Status</u>	<u>Recommendation</u>
			<u>Low</u>	<u>High</u>			
3-1-60	Tuesday	Cold-Snow	17	25	-25 degrees	2nd Fl. Slab	Grant
3-2-60	Wednesday	Cold-Snow	16	32	-22 degrees	2nd Fl. Slab	Grant
3-3-60	Thursday	Cold-Snow	11	41	-20 degrees	2nd Fl. Slab	Grant
3-4-60	Friday	Cold-Snow	15	29	-24 degrees	2nd Fl. Slab	Grant
3-5-60	Saturday	Cold-Snow	16	29	-24 degrees	2nd Fl. Slab	Grant
3-7-60	Monday	Cold-Snow	25	41	-14 degrees	Forming	Grant
3-8-60	Tuesday	Sandstorm	32	61		Forming	Not Grant
3-11-60	Friday	Cold	27	52	- 9 degrees	Forming	Grant
3-12-60	Saturday	Cold	26	53	- 9 degrees	Forming	Grant
3-15-60	Tuesday	Cold-Wind	30	53	- 7 degrees	Forming	Not Grant
3-16-60	Wednesday	Cold	23	54	-11 degrees	Forming	Grant
3-17-60	Thursday	Cold	36	50	-12 degrees	Forming	Grant
3-24-60	Thursday	Rain	36	58	- 5 degrees	Forming	Not Grant
3-28-60	Monday	Sand	46	17		3rd Floor	Not Grant
3-29-60	Tuesday	Sand	45	71		3rd Floor	Not Grant
3-31-60	Thursday	Sand	46	83		3rd Floor	Not Grant
4-26-60	Tuesday	Sandstorm	46	77		3rd Floor	Not Grant
4-27-60	Wednesday	Rain	48	72		3rd Floor	Grant
4-28-60	Thursday	Sandstorm	52	83		3rd Floor	Grant
5-5-60	Thursday	Sandstorm	47	78		Laying Brick	Grant
5-18-60	Wednesday	Rain	58	90		Laying Brick	Grant
5-24-60 to 6-21-60		Strike					Grant 27 Cal. Days
6-24-60	Friday	Rain	61	79		Laying Brick	Grant
7-5-60	Tuesday	Rain	64	72		Masonry Work	Grant
7-6-60	Wednesday	Rain	64	69		Masonry Work	Grant
7-7-60	Thursday	Rain	63	78		Masonry Work	Grant
7-8-60	Friday	Rain	65	84		Masonry Work	Not Grant

SUMMARY

<u>Month</u>	<u>Contractor's Request Working Days</u>	<u>Recommended Extension Working Days</u>
November, 1959	8	7
December, 1959	7	6
January, 1960	13	10
February, 1960	17	13
March, 1960	16	10
April, 1960	3	2
May, 1960	2	2
June, 1960	1	1
July, 1960	4	3
Total	71	54
Calendar Days	83	63
Strike	27	27
Total	110 Days	90 Days
Credit for Above Normal Weather:		5 Days
Net Extension Allowable		85 Days

Campus Planning Committee
Attachment No. 276
Item 1375A

P I T T S M E B A N E & P H E L P S
Architects & Engineers
Beaumont, Texas

1872 Calder Avenue

November 21, 1960

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

Re: A Library Building
Texas Technological College
Lubbock, Texas

Dear Nolan:

Pursuant to our several recent telephone conversations we are pleased to summarize our recommendations, as follows:

Under the present contract, exposed architectural concrete is to be smooth finish and painted. This particular finish includes the columns and thin shell arches of the tower of the building and embraces a considerable area. The cornices of the one story wings and the cornice at the second floor line of the tower are limestone under the present contract.

In an effort to eliminate the maintenance problem that might arise from the painted concrete we have conducted a rather extensive investigation, with the contractor, to see if other finishes might be substituted for paint on the architectural concrete. In order to provide a consistency of finish and color, these investigations have contemplated the elimination of the limestone, from the exterior of the building, and the replacement with concrete finished to match the columns, shells, etc., of the tower.

Our investigations have been aimed at two possible finishes. Finish No. 1 would consist of concrete members being poured quite precisely and neatly and then sandblasted to provide a mechanical "key". All existing concrete scale would be removed. After the surfaces had been roughened by sand-blasting, they would be washed down to remove all dust or loose particles. Subsequently, these surfaces would be finished with new formula Oriental exterior stucco applied with a special spray machine. This is the same finish which we applied some twelve months ago to exterior concrete surfaces of the Administration Building at Lamar State College of Technology, and which has stood up quite excellently. The particular color for the subject project, however, would be tinted toward a warm ivory color, and would blend and closely approach the color of the limestone on the campus.

We are enclosing herewith two (2) copies of a letter we have received from the United States Gypsum Company dated November 18, 1960, relating to the subject.

Finish No. 2 would consist of concrete members being poured quite precisely and neatly. In order to provide a texture for the finished concrete, the forms for all exposed surfaces would be of embossed plywood. The actual concrete for the exposed members would consist of white cement, imported sand and local aggregate.

After some weeks of working with both possible finishes, the Contractor and our office have become apprehensive of Finish No. 2. There are many places where form ties would be required, and these would necessitate subsequent patching which would probably show as blemishes in the architectural concrete. In addition to this, we have some concern about the neatness of

November 21, 1960

the edges where the embossed plywood members would join. We have a further concern about protecting these surfaces and leaving them in first-class condition when the job is completed. This results from the fact that the exterior architectural concrete members would, of necessity, be poured in the early stages of the job and would require protection for many months.

In the instance of Finish No. 1, this can be applied toward the end of the job. Any damaged concrete surfaces can be patched prior to applying the finish, and in our opinion, this has a very distinctive advantage at only a reasonable increase in cost. After very careful consideration, it is our strong recommendation that we abandon the limestone cornices and painted concrete of the present contract, and that we substitute architectural concrete members which would be finished as described above in "Finish No. 1." Under this recommendation, the cornices for the one story wings would be poured of concrete-in-place except the frieze, which would be of precast concrete members so that flashing and waterproofing can be carried behind the frieze. The poured-in-place concrete members would have expansion and contraction joints at intervals of approximately 27 feet on center. Under this recommendation, the cornice at the second floor line of the tower would be of precast concrete members. These members would be placed in the forms prior to the pouring of the cantilevered concrete projection and would be anchored to the principal concrete members by protruding steel reinforcing bars. The joint between the precast and poured-in-place members would be separated by building paper. The purpose of this method of construction is to overcome the possibility of expansion and contraction joints which might appear in the exterior concrete members. Further, under this recommendation, the upper concrete columns and concrete shells would be poured as now detailed and specified. When all concrete is in place and the damaged areas have been carefully patched, the spray finish would be applied toward the conclusion of the project. Following this a heavy coating of silicone waterproofing would be applied to all such surfaces.

In addition to these recommendations, we suggest that consideration be given to the use of dark green or black polished Agradon for two sides of the columns in the Garden and Lobby areas. We further suggest that polished Agradon be used for the pool coping and polished or textured Agradon be used on the interior and exterior benches. As you know, the Contractor has quoted an optional credit for the use of run-in-place terrazzo for the interior stairs. This would be in lieu of precast terrazzo and it is our recommendation this credit be taken. We have had a proposal made for the use of Agradon exterior steps at an additional cost of \$2,248.00. In the event we are unable to include this additional cost, we would be quite satisfied with the present contract arrangement which provides run-in-place washed terrazzo steps on the exterior of the building. The color and texture of the washed terrazzo could be similar to Agradon sample which is now at the job site.

For your consideration, we summarize below the cost data relative to our recommendations discussed above.

Concrete Finishes, Exterior Steps, First Floor Columns, Etc.

Refer to J. M. Odom's letter to L. W. Pitts dated July 26,
1960 - copy enclosed.

Proposal #3C add sprayed stucco finish on all fascias, friezes, exterior precast columns, concrete vaults, etc. This includes the necessary scaffolding to permit plasterers to work in the area involved and includes sandblasting and cleaning concrete surfaces on which the spray plaster finish is to be applied.

Add - - - - - \$13,320.00

Agradon columns. (Separate Proposal)

Add - - - - - 5,000.00

Total Add- - - - - \$18,320.00

Proposal #3A change cut stone fascias and frieze
to concrete - removable section of low cornice
to be precast concrete. Deduct - - - - - -\$8,261.00

Proposal #3B omit painting of exterior concrete
columns, vaults, etc., specified in Base
Bid. Deduct - - - - - -\$3,933.00

Use run-in-place terrazzo interior stairs.
See Owner's Option #D 1 f., Page 11 of
the contract. Deduct - - - - - -\$4,107.00

Total Deductions - - - - - -\$16,301.00

NET ADD- - - - - -\$ 2,019.00

Proposal #5 for the application of one heavy coat of
colorless silicone waterproofing on all sprayed
plaster surfaces.

Add- - - - - -\$ 3,520.00

Total Add- - - - - -\$ 5,539.00

Use polished Agradon pool coping and polished or
textured Agradon benches inside and outside.
(Separate Proposal).

Deduct - - - - - -\$ 1,364.00

Add- - - - - -\$ 4,175.00

During conferences with Mr. Morton in Beaumont on
November 17, 1960, the Architects introduced, for the
first time, the use of precast concrete members at the
second floor cornice line at the tower. The use of
precast members in lieu of poured-in-place members at
this location.

Add- - - - - -\$ 1,160.00

Total Add - - - - - -\$ 5,325.00

In the event that the College desired to use precast
Agradon for the exterior stairs in lieu of poured-
in-place terrazzo members.

Add- - - - - -\$ 2,248.00

Total Add - - - - - -\$ 7,573.00

Note: Attention is invited to the fact that the following
deductions could be made from this analysis.

Use limestone columns as now specified, in lieu of
Agradon columns. Deduct - - - - - -\$5,000.00

Use run-in-place washed terrazzo exterior stairs
in lieu of Agradon. Deduct - - - - - -\$2,248.00

Total Deductions- - - -\$7,248.00

By deducting this from the \$7,573, we have a
balance of \$325. This is the actual difference
in cost between using the recommended finish #1
and the contract as now written if credit is
taken for the run-in-place terrazzo interior stairs.

Possible offsetting savings:

Hardware Allowance	\$7,771.00
Actual Hardware Purchase	<u>5,112.10</u>

Savings

\$2,658.90

Muzak Credit - Approximate

Base Bid Credit	\$6,542.53	
North Basement	<u>1,224.05</u>	
		\$7,766.58
Provide conduit - approximate		\$2,000.00
Net Credit - approximate		<u>\$5,766.58</u>

A credit will also accrue to the College for the omission of the partitions in the basement between the North area and the Central Area.

Another credit will accrue to the College for the temporary partitions in lieu of the permanent partitions between the Central Area and the South Basement Area.

After reflecting on the matter of the Muzak, it is our definite recommendation that the complete Muzak system be omitted at this time; however, we firmly recommend that conduit be installed, exclusive of speaker cans in the initial building so that the system could be installed at some future date without inconvenience or excessive cost.

As discussed with you by telephone, the Contractor is fast approaching the construction of the concrete members around the one story cornice of the south wing. It is our understanding that he will be placing the steel in these members sometime the latter part of this week. In view of this, we would appreciate it very much if a decision could be made on the finish for the exterior concrete at the earliest possible time.

Cordially yours,

PITTS, MEBANE & PHELPS

/s/ L. W. Pitts

L. W. Pitts

LWP:la(d)

Enclosures

cc: J. M. Odom Construction Company (Attn: Mr. Charles Morton)
Mr. Richard R. Phelps

Campus Planning Committee
Attachment No. 277
Item No. 1375C

PITTS MEBANE & PHELPS . ARCHITECTS & ENGINEERS
1872 Calder Avenue Beaumont, Texas Telephone TE 2-2567

ARCHITECTS

Llewellyn W. Pitts, F.A.I.A.
Mike Mebane, A.I.A.

ASSOCIATES

Robert P. White, A.I.A.
Dorcy L. H. Watler, A.I.A.
Frank F. Beadle, Jr.

ENGINEERS

Russell R. Phelps,
F.A.S.C.E.

ASSOCIATES

J. B. Nichols
T. R. Ogden
John W. Godsey
E. M. Curtis, Jr.

November 22, 1960

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

Re: A Library Building
Texas Technological College
Lubbock, Texas

Dear Nolan:

This letter is written to refresh your memory on certain provisions in the construction contract for the subject project relating to deductive alternates which were to expire within a 90 day period and a six months period from date of contract. Please also refer to our Conference Memorandum of August 25, 1960.

Contract Article 8 - Owner's Option.

Part B

Items #1, #2 and #3 - These items relate to the color inserts in the solar screens. During my last trip to Lubbock, Mr. Morton agreed to postponing a decision on the use of colored inserts until a sample of the screen can be erected at the second floor line.

Item #4 - This item relates to painting behind the solar screens. Mr. Morton has agreed to a postponement of a decision on this item until a substantial amount of the screen can be erected as an aid in determining the amount to be painted.

Item #5 - This has been accepted.

Item #6 - This has been rejected.

Item #7 - This has been rejected.

Item #8 - This has been rejected.

Item #9 - This has been accepted.

Item #10 - No final action has been taken on finishing of the Third Floor. A decision should be reached on this in the near future.

Item #11 - This item is involved in the finishes for the exterior architectural concrete.

- Item #12 - This item is involved in the finishes for the exterior architectural concrete.
- Item #13 - This item has been rejected.
- Item #14 - This item has been rejected.
- Item #15 - This has been accepted.
- Item #16 - In my letter of November 21, 1960, we have recommended that only the empty conduit be included in the building at this time and that the remaining portion of the Muzak system be omitted. College action should be taken in the near future.
- Item #17 - It was decided to retain the heavier gauge lighting louvers and not to accept this item.
- Item #18 - Credit was taken for the painted lighting reflectors.

Part C

- Item #1 - Finish South Basement - As I understand it, no official action has been taken on this. It should be noted the contract is dated June 10, 1960 and that this option expires in six months from that date which is December 10, 1960. You will undoubtedly wish to have some official action taken on this item. In the event you feel that the Board is likely to finish this area, I suggest you immediately notify the contractor of such possibility and request an extension of time for several days to permit their action during the December 9th and 10th meeting.
- Item #2 - Finish North Basement - This decision has already been made.
- Item #3 - Finish Third Floor - Our comments on this are similar to Item #1.

Part D

- Item #1.a - This was rejected.
- Item #1.b - This was rejected.
- Item #1.c - This was rejected.
- Item #1.d - The contractor was agreeable to postponing decision on this item; however, you may be in a position to resolve the question at this time. We strongly recommend that the Display Cases be fabricated by the contractor following the details shown on our drawings and that you do not accept this deduction of \$3,200.
- Item #1.e - This was rejected.
- Item #1.f - We have recommended in our letter to you of November 21 that this credit be taken.
- Item #2.a - This has been rejected.
- Item #2.b - This has been accepted.
- Item #2.c - This has been rejected.
- Item #2.d - This has been rejected.

Mr. Nolan E. Barrick

Page 3

November 22, 1960

Item #2.e - This has been rejected.

Item #2.f - This item has been accepted and is predicated upon installation of isolators between dissimilar metal.

Item #2.g - This has been accepted.

Item #2.h - This has been rejected.

Item #2.i - This has been rejected.

Item #2.j - This has been rejected.

Item #2.k - This has been rejected.

Item #2.l - This has been rejected.

Item #2.m - This has been accepted.

Item #3.a - This has been rejected.

Item #3.b - This has been rejected.

Item #3.c - This has been rejected.

Item #3.d - This has been accepted.

Item #3.e - This has been rejected.

Item #3.f - This has been rejected.

Item #3.g - This has been rejected.

I believe the primary decisions to be made concern finishing the South Basement and the Third Floor and related alternates. Should you need any further comments on our part, please advise.

Cordially yours,

PITTS, MEBANE & PHELPS

/s/ L. W. Pitts

L. W. Pitts

LWP:la(d)

cc: J. M. Odom Construction Company (Attn: Mr. Morton)
Richard R. Phelps

P.S. It should be noted that we have an alternate in the Hardware Specifications relating to the furnishing of the hardware for the Third Floor. Obviously, the decision relating to finish of this area will bear upon this alternate.

PHASE #1 FOR PHYSICAL PLANT BUILDING

CENTRAL WAREHOUSE

Item	Description	Quantity (Sections)	Unit Price	Cost
1	Metal Shelving (154 - 3'x1'x7') (14 - 3'x1½'x7') (14 - 3'x2'x7')	182	\$ 66.00	\$ 12,012.00
2	Slotted Angle & Plywood Shelving (10'x3'x7')	24	91.67	2,200.08
3	Wooden Pallet (3'x4')	25	4.50	<u>112.50</u>
Subtotal - - -				\$ 14,324.58
CARE AND MAINTENANCE OF GROUNDS SHOPS				
4	Parts Bins, Lyon #3815	2	\$ 70.15	\$ 140.30
5	Parts Bins, Lyon #3810	4	50.40	201.60
6	Parts Bins, Lyon #3805	2	45.20	90.40
7	Closed Type Shelving, Lyon #3051	16	43.55	696.80
8	Mounting Panels, Lyon #4210	12	5.95	71.40
9	Sorting File, Lyon #1300	1	15.90	15.90
10	Tool Cabinet - Bench, Lyon #3000	1	37.85	37.85
11	Tool Hanging Cabinet, Lyon #3020	1	29.65	29.65
12	Slotted Angle Gen. Storage Rack (Acme Detail #16)	1	175.41	175.41
13	Slotted Angle Gen. Storage Rack (Acme Detail #17)	1	164.70	164.70
14	Slotted Angle Garden Tool Rack (Acme Detail #18)	1	42.10	42.10
15	Slotted Angle Garden Tool Rack (Acme Detail #19)	1	41.00	41.00
16	Slotted Angle Workbench (Acme Detail #20)	1	81.53	81.53
17	Slotted Angle Workbench (Acme Detail #21)	1	61.08	61.08
18	Slotted Angle Workbench (Acme Detail #22)	3	43.85	131.55
19	Slotted Angle Welding Bench (Acme Detail #23)	1	58.96	58.96
20	Slotted Angle Point and Sign Storage Rack (Acme Detail #24)	1	149.39	<u>149.39</u>
Subtotal - - -				\$ 2,189.62
21	Metal Shelving	26	\$ 98.03	\$ 2,548.78
222	Slotted Angle	13	63.53	<u>825.89</u>
Subtotal - - -				\$ 3,374.67
TOTAL - - - - -				<u>\$ 19,888.87</u>

STATE OF TEXAS

COUNTY OF LUBBOCK

THIS AGREEMENT made the 24th of October, 1960 by and between the Board of Directors, Texas Technological College, Lubbock, Texas, acting herein by and through C. I. Wall, Amarillo, Potter County, Texas, Chairman of the Board of Directors, hereinafter called the Owner, and Elmer Calhoun, Lubbock, Lubbock County, Texas, hereinafter called the Contractor.

WITNESSETH, that the Owner and Contractor for the considerations hereinafter named agree as follows:

ARTICLE 1. SCOPE OF THE WORK - The Contractor shall furnish all labor, superintendence, materials, and equipment to construct concrete sidewalks on the Texas Technological College Campus adjacent to Womens Gymnasium; west of Drane and Doak Halls; along street between Agriculture and Chemistry Buildings; and in area of Architecture-Computer, West Engineering and Classroom Office Buildings, as described in the specifications and as noted in the Notice to Bidders form prepared by the Office of the Landscape Architect, Texas Technological College; all in accordance with the contract document.

ARTICLE 2. CONTRACT SUM - The Owner shall pay the Contractor for full performance of the contract the sum per unit of work done:

1. Concrete sidewalk, four (4)" inch thickness, including all excavation and fill under sidewalk complete in place, per square foot. Thirty four and twenty five one hundredths cents (34.25 cents)
2. Concrete sidewalks, five (5)" inch thickness, reinforced, including all excavation and fill under sidewalks complete and in place, per square foot - Forty and ninety one-hundredth cents (40.90 cents)

ARTICLE 3. COMPLETION OF THE CONTRACT - The work shall be completed within the time allotted on the Bid Proposal.

ARTICLE 4. BOND - The Contractor shall provide to the Owner a performance bond in the amount of One Hundred (100) percent of the contract sum, without recourse, to the State of Texas, covering the faithful performance of the contract and the payment of all obligations arising thereunder.

ARTICLE 5. ACCEPTANCE AND FINAL PAYMENT - The Owner shall, upon completion of the work, make such payment within Thirty (30) days after acceptance by the Owner as will be necessary to complete the total payment of the contract, provided that the contract be then fully performed.

ARTICLE 6. CONTRACT DOCUMENTS -

- (a) Notice to Bidders - One (1) sheet.
- (b) Proposal No. 1 - Two (2) sheets.
- (c) Specifications - Ten (10) sheets.

IN WITNESS WHEREOF, they have executed this agreement the day and year first above written.

ATTEST:

BOARD OF DIRECTORS
TEXAS TECHNOLOGICAL COLLEGE

/s/ J. Roy Wells
Secretary

By /s/ C. I. Wall
Chairman of its Board of
Directors

By /s/ Elmer Calhoun
Contractor

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 100 December 10, 1960

A joint meeting of the Building Committee of the Board of Directors and the Campus Planning Committee was held on December 10, 1960, at 4:00 p.m. in the Office of the President.

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

Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, President R. C. Goodwin, Mr. D. M. McElroy and Mr. John G. Taylor were present.

In order that the results of the meeting of the Board of Directors may be included in the Campus Planning Committee Minutes for record purposes, the action taken by the Board of Directors at the meeting on December 10, 1960, will follow that of the Building Committee for each item.

The Building Committee took the following actions:

1408. Agricultural Plant Sciences Building

Extra for Millwork (\$8,640)

Recommended to the Board of Directors that the Building Committee be authorized to award a contract between Board meetings in order not to delay construction progress.

(The Board of Directors approved the action.)

1409. Architecture-Computer Building

A. Final Acceptance Date

Approved an extension of time in the amount of 85 days (58 due to bad weather and 27 due to the brick strike) to the contracted final completion date of August 31, 1960, and approved the final acceptance date of December 1, 1960. The contractor will be charged with liquidated damages for six days.

B. Equipment

Approved an increase in the number of drafting tables from 50 to 75.

C. Moving

Approved the moving contract with B & H Warehouse, Inc., of Lubbock, the low bidder, in the amount of \$1,197.50 plus \$15.00 for insurance above the normal amount, to be paid from the Unappropriated Balance.

D. Moving Kiln

Accepted the low bid of the B & H Warehouse, Inc., in the amount of \$150.00 to move the kiln from X-5 to the basement of the new facilities, the amount to be paid from the Unappropriated Balance.

(The Board of Directors approved the actions.)

1410. Housing

Approved the use of one of the Men's Residence Halls in September, 1961 to house women on a temporary basis.

(The Board of Directors approved the action.)

1411. LibraryA. Alternates

Approved the alternates as set out in Mr. Pitts' letter of November 21, 1960. A copy of the letter is attached to and made a part of the Minutes of Meeting No. 96, Attachment No. 276, Page 783.

B. Six Months Alternates

Approved the alternates as set out in Mr. Pitts' letter of November 22, 1960. A copy of the letter is attached to and made a part of the Minutes of Meeting No. 96, Attachment No. 277, Page 784.

C. Lights

Approved the recommendation as set out in Mr. Pitts' letter of October 31, 1960, as follows:

- "(a) All fluorescent lighting fixtures will be purchased from the Edwin F. Guth Company and all will be equipped with 'A' rated ballasts as manufactured by the Advanced Ballast Company.
- "(1) Each fixture shall have 11 striated heavy guage Alzak finish aluminum cross louvers providing a side cutoff of approximately 40° and a longitudinal cutoff of approximately 30°.
- "(2) Generally, the Alzak reflectors were omitted under an earlier decision and, therefore, the reflectors for fluorescent fixtures will be of the painted type. This paint shall be a special Acrylic material.
- "(3) The various metal portions of the fixture shall be sealed with a special compound made for this purpose.
- "(4) It is to be noted that the requirements set forth above will apply to the Type 'A' and 'B' fixtures in the Garden Area 102 except that these particular fixtures will retain the Alzak finish for reflectors."

The use of the Guth fixture will be at no extra cost to the College.

D. Muzak

The conduit will be included as set out in Mr. Pitts' letter in order that Muzak can be added at a future date, if necessary. It was expressly understood that the Muzak is not to be installed at this time. (Re: Attachment No. 276, Page 783C)

E. Extension of Time

Agreed to grant the contractor an extension of time for the days lost due to steel problems.

(The Board of Directors approved the actions.)

1412. Mechanical Engineering ShopsMoving

Awarded a contract to the B & H Warehouse, Inc., of Lubbock, the low bidder, in the amount of \$5,925.00, the amount to be paid from the Unappropriated Balance. The mover is to prepare a contract which will include the insurance coverage. In addition, he is to furnish the College with a proper insurance certificate.

(The Board of Directors approved the action.)

1413. Other ItemsA. X-1 Building

Confirmed the sale of X-1 to the Lorenzo Independent Public School District for the sum of \$1,500.00; the College to clear the site.

B. X-5 Building

Confirmed the sale of X-5 to the Lorenzo Jaycees for the sum of \$1,000.00; the College to clear the site.

C. X-2 Building

Approved the sale of X-2 to Mr. A. E. Oliphint of Lubbock for the sum of \$700.00; removal to be made within a reasonable time after the Department of Custodial Services has removed the materials stored in the building to the new Physical Plant Facilities.

(The Board of Directors approved the actions.)

1414. Physical Plant FacilitiesEquipment

Approved the purchase on a competitive bid basis of the shelving and pallets as shown in the Minutes of Meeting No. 97, Attachment No. 279, Page 789, at an estimated cost of \$19,888.88.

(The Board of Directors approved the action.)

1415. Relocation of Farm FacilitiesA. Agronomy

Approved the final acceptance date of November 11, 1960.

B. Horticulture

Approved the final acceptance date of November 11, 1960.

C. Poultry

Approved the final plans and specifications and the taking of bids in order to present a recommendation for contract award at the meeting of the Board on February 11, 1961.

(The Board of Directors approved the actions.)

1416. Science Building

Approved the final plans and specifications presented by Mr. Robert Messersmith, Mr. M. L. Stiles and Mr. Hoyse McMurtry, representatives of the Project Architects, subject to final polishing; and the taking of bids in time for presentation to the Board at the meeting on February 11, 1961, for a contract award. The contract is to be based on one over-all bid, including the mechanical and electrical.

(The Board of Directors approved the action.)

1417. Student UnionChange Orders

Recommended to the Board that the Building Committee be authorized to act between meetings in order not to delay construction progress.

(The Board of Directors approved the action.)

1418. UtilitiesA. Tunnel and Other Utilities (Anthony Company of Lubbock)

Approved the final acceptance date of November 17, 1960.

B. Switch House

Approved the final acceptance date of November 10, 1960.

(The Board of Directors approved the actions.)

1419. Walks, Drives and Parking LotsContract with Mr. Elmer Calhoun

Approved a contract in order that it could be included in the Minutes.

(The Board of Directors approved the action.)

1420. Women's GymTennis Courts

Approved the final acceptance date of December 8, 1960, subject to the satisfactory grinding of one section and acceptable reports from the last cylinders which are scheduled to be broken in the next few days.

(The Board of Directors approved the action.)

M. L. Pennington
Chairman

The meeting adjourned at 6:10 p.m.