

Preliminary
Summary of Recommendations
of Special Committee on the Walker Memorial.

Location

1. The Walker Memorial should be convenient of access not only for students on the campus, but for those living outside (on their way home), and for persons attending evening affairs in it.
2. As a memorial it should have a conspicuous site and an architecturally impressive exterior.
3. The gymnasium should be convenient of access for students on the campus.
4. The Walker Memorial and the gymnasium should be located with reference to permanent use; the athletic field for occupancy for not less than 25 years.
5. The athletic field should be so located as to admit of inclosure and not to interfere with direct passage between buildings.
6. The location preferred for the Walker Memorial is on the Esplanade, near Massachusetts Avenue.
7. The Walker Memorial should be near the Dining Hall and the two should be connected by an Arcade.
8. The location preferred for the Gymnasium is the corner of Massachusetts Avenue and Vassar Street.
9. The Swimming Pool should adjoin the gymnasium on the south side.
10. The location preferred for the athletic field is along Vassar Street, eastward from the gymnasium.
11. It is assumed that the space along Massachusetts Avenue between the Walker Memorial and the dining hall at the one end and the gymnasium and swimming pool at the other would then be used for quadrangles of student houses.
12. The interior of these quadrangles, and other available open spaces should be used for tennis courts.
13. The ground areas should be approximately as follows:

Walker Memorial	12-15000 sq. Ft.
Gymnasium	45000 " "
Athletic field including tracks, grand stand, etc.	360000 (400 x 900 to 1000)

Walker Memorial Building

14. There should be porticoes, terraces and out of door seats.
15. The basement should include a grill room, seating 125; four smaller dining rooms, seating 25 each; a kitchen; sewing rooms etc.; a small gymnasium, for hand-ball, squash, etc.; shower baths; shooting gallery; 6 bowling alleys. Some of these may extend under the Arcade.
16. The first floor should contain a general lounging and smoking room, reading room, billiard room, writing room, card room, reception room, check room.
17. Both basement and first floor should have entrances from the arcade, as well as from outside.
18. The second floor should contain an auditorium, seating 400 to 500, with ante-rooms, etc., library and smoking room for Faculty and alumni; rooms for study and for committee meetings.
19. The third floor should contain offices for the principal student activities and an apartment for the superintendent.
20. The building should be designed with reference to the possibility of future expansion.

Organization and Administration of

Walker Memorial

21. All male undergraduates should be active members, organized as a club with membership cards.
22. Associate membership should be open to members of the instructing staff and alumni.
23. Dues for active members should be \$4 per year; for associate members \$5. The student dues should be collected in the form of an addition of \$3 to each term bill.
24. The active members should elect a house committee to make and administer rules, subject to the approval of the President of the Institute.
25. The business and financial management should be exercised under the general direction of the Corporation, by a committee of 7, including 4 representatives of the alumni, 1 of the Faculty, and 2 of the undergraduates.

26. Pains should be taken to make place cheerful and attractive on Sundays. Religious services should be arranged (by the Technology Christian Association) for Sunday morning, and concerts held in the afternoon.
27. The kitchen should be conducted in connection with the general dining hall.
28. Billiards and bowling should be made self-supporting (or better) if practicable.
29. Student organizations not representing the student body as a whole should pay a small rental if they desire the exclusive use of rooms.

Faculty and Alumni.

30. A special reading room and smoking room should be assigned to Faculty and alumni; they should share the grill-room and special dining rooms with the students. The gymnasium should include special provision for instructing staff and alumni.

The Arcade.

31. The arcade should include two floors, or one above the basement; 1500 lockers, the general student post-office and check room; a news stand, confectionary and tobacco stands, barber, boot-black, etc. These should yield some revenue.

Gymnasium.

32. The gymnasium should be about 150 by 300 feet.
33. The basement floor should be of cinders and clay, with a cinder track 14 feet wide.
34. One-third of the basement floor space should be devoted to lockers and shower baths.
35. Particular attention should be devoted to lighting and ventilation of the basement as well as of the upper part of the building.
36. The first floor should contain a main exercising room, 100 by 150 feet; office rooms for the director; library, check room, reception room, etc.
37. The main room should be arranged for occasional use for large dances and dinners unless these are provided for elsewhere.

38. This main floor should also include lockers, baths, and special rooms for wrestling, boxing, fencing, squash, hand ball, and corrective gymnastics.
39. On this floor, or in a mezzanine, should be additional rooms for athletic teams, visiting teams, examining rooms, etc.

Swimming Pool.

40. This should adjoin the gymnasium on the south side and should have a ground area of 100 by 60 feet.
41. The pool should be 75 by 30, with 9 feet of water at one end, deminishing to 4-1/2 at the other.
42. There should be a gallery around the pool with seats for several hundred.
43. An instructor in swimming, or his assistant, should be in constant attendance.
44. Careful attention should be given to cleanliness and sterilization of water.

Physical Director.

45. There should be a gymnasium director of medical training and faculty rank.
46. As medical adviser he should have daily office hours with able quarters and appliances for emergency cases.

Athletic Field.

47. The field should be accessible, inclosed, and not so located as to interfere with passage between buildings.
48. It should be approximately 400 feet wide by 900 to 1000 long, with a 220 yard running track on one side, and on the other an extension to form the finish of a 440 yard track.
49. If located along Vassar Street, the grand stand should form a wall between the field and the street.
50. It is recommended that tennis courts be laid out in the quadrangles and other available open spaces.
51. A special alumni committee should be appointed to deal with the problem of boating.

Dr. MacLaurin.

REPORT OF PROGRESS

of the Walker Memorial Special Committee,
presented at the meeting of the Alumni Council

May 21, 1912.

The Special Committee on the Walker Memorial has held weekly meetings since its appointment, two of these meetings having taken the form of conferences with selected undergraduates; another, with members of the Faculty. The Committee on Student Houses has also met with us by invitation.

Our aim thus far has been to make a broad preliminary survey of all the needs and conditions which connect themselves at all with our special problem, collecting information and expressions of opinion by the conferences referred to and by correspondence. Letters have been addressed to some forty alumni in other institutions and interesting material obtained; for example- from the Universities of Pennsylvania, Chicago and Illinois, from Princeton, Dartmouth, Bowdoin and others. Members of the committee have also visited other institutions to some extent. While our investigations have not yet been carried so far as to warrant specific conclusions or recommendations, we present the following expressions of opinion for discussion by the Alumni Council:

- 1- Gymnasium and Field. The physical and athletic needs of students should be met by a fairly large and well-equipped gymnasium, with an adjoining athletic field and a swimming tank. The detailed program for the gymnasium and athletic field are now the subject of study by Dr. Rockwell of the committee.

In general it is our opinion that the gymnasium should be in

charge of a competent director, educated in medicine; that physical training, or equivalent athletic exercises should be required of all first-year students, with a physical examination at entrance;

that beside the indoor gymnasium class work, ample provision should be made for open-air athletics, including an outdoor running track; natural adjuncts would be required, lectures on personal hygiene, student clubs for walking, running, etc.

- 2- Social Center. There should be provision in a separate building for the social needs of the students, interpreting these so broadly as to include aesthetic and ethical elements. This social center would also be a headquarters for student activities of every description; for example- the Technology Christian Association, clubs for social service, debating and political clubs, the Walker Club, Cosmopolitan Club, etc.; societies- musical, dramatic, literary, professional; publications- The Tech and the Technique. It would have a library and works of art, the Gilley bequest being available for these as well as for lectures on travel, etc. There would be a small hall for concerts, lectures and theatricals; also a dining room and provision for receptions, dinners and other social functions. A sub-committee of the undergraduate Institute Committee has been asked to co-operate in working out the details of what this social building should include.
- 3- Faculty and Alumni. It seems to us desirable, if practicable, to include in the gymnasium and in the social center incidental provision for similar needs of the instructing staff and

visiting alumni, especially during vacations. This has also been suggested voluntarily by several of the undergraduates. It should be put on such a basis as to avoid interference of any sort with the undergraduates. We have in mind in particular a lunch room for members of the staff and the partial use of facilities for swimming, tennis, boating and athletic games.

- 4- Walker Memorial. The question whether the title "Walker Memorial" should be applied to both buildings or specifically to one -and if so, to which- seems to us debatable. The original Walker Memorial committee aimed explicitly to provide for both physical and social needs but gave some priority to the physical. Conditions have changed in the meantime, and it would seem at least possible to specialize the memorial in either direction if it were made certain that such restriction did not imply that the other interest would be really sacrificed. We invite discussion on this point.
- 5- Administration. It seems to us that the social center should be organized as a student club with a small membership fee of, for example, \$2 per year, which should not prevent anybody from joining, but should give a sense of responsible partnership to undergraduate members and serve as a check on disorder or other abuse.
- 6- Location. It seems to us desirable that whatever building becomes the Walker Memorial, it should face the Parkway at one corner of the tract. In favor of the Massachusetts Avenue location would be convenience of access for social affairs, particularly in the evening. Adjoining the Social Center might be a campus, flanked by student houses along

Massachusetts Avenue, with the gymnasium at the end, and an athletic field extending back, along Vassar Street.

- 7- Student Houses, Dining-Room. The committee assumes that the Corporation will provide a number of student houses, a large, general dining-room for students, and a sufficiently large hall for convocations and graduation exercises. An infirmary may also be needed.

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M. I. T.
ALUMNI ASSOCIATION.

Walker Memorial Committee.

H. W. TYLER, '84, Chairman.	C. M. BAKER, '78, Treasurer.
C.-E. A. WINSLOW, '98, Secretary.	
R. H. RICHARDS, '68.	W. B. THURBER, '89.
THOMAS HIBBARD, '75.	J. L. BATCHELDER, JR., '90.
EVERETT MORSS, '85.	A. F. BEMIS, '93.

Boston, October 14, 1912, /90

Dear Dr. Maclaurin:

I inclose memoranda of the last and the next meetings of the Walker Memorial Special Committee. I shall be glad if you find it possible to look in at either, or both, meetings.

Very truly yours,

R. I. Jen

Dr. R. C. Maclaurin.

Dr. MacAurion.

Walker Memorial.

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Copy

October 14, 1912.

Dear.....

The next meeting of the Walker Memorial Special Committee will be held at the Technology Club on Thursday, October 17 at 5:30 P.M., continuing into the evening.

The special topics assigned for this meeting are : Location, and Discussion of material from other colleges. I hope also to present for discussion a preliminary outline of our report.

Very truly yours,

H. W. Tyler, Chairman.
B

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Walker Memorial Special Committee
1912.

The ninth meeting of the Committee was held at the Technology Club on Friday, October 12th, at 5:30 P.M.; all members of the Committee being present.

There was general discussion of plans and procedure for the year.

It was agreed to meet October 17th for the discussion of location, and of reports from other colleges, with the expectation of making an early preliminary recommendation to the President for the reservation of definite portions of the new site.

It was further agreed to meet on alternate Thursdays and to assign for Thursday, October 31st, a discussion of plans for the gymnasium, swimming pool and athletic field, to be presented by Dr. Rockwell.

H. W. Tyler.
B

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Dear Dr. Tyler:

I have to thank you for your preliminary report of the Walker Memorial Committee - a report that will, I feel sure, be very helpful to the Executive Committee of the Corporation in determining the broad lines on which our building problems are to be solved. I shall look with much interest for the later and more detailed report that you are good enough to promise.

Yours sincerely,

November 20, 1912.

Dr. H. W. Tyler.

M. I. T.
ALUMNI ASSOCIATION.

Walker Memorial Committee.

- | | |
|-----------------------------------|------------------------------|
| H. W. TYLER, '84, Chairman. | C. M. BAKER, '78, Treasurer. |
| C.-E. A. WINSLOW, '98, Secretary. | |
| R. H. RICHARDS, '68. | W. B. THURBER, '89. |
| THOMAS HIBBARD, '75. | J. L. BATCHELDER, JR., '90. |
| EVERETT MORSS, '85. | A. F. BEMIS, '93. |

Boston, November 20, 1902.

Dear President Maclaurin:

In accordance with the understanding reached in our recent conference with you, we desire to present more formally a preliminary recommendation in regard to the location of the Walker Memorial and related buildings on the new site. While our present data are necessarily too incomplete to warrant a definitive recommendation, we understand that a tentative expression of opinion may facilitate the working out of the general problem of grouping of educational and other buildings.

The determining considerations we have had in mind are:

- 1) economy of ground-area
- 2) convenience of access from all parts of the site for buildings used by all students ^{as} ~~in~~ the Walker Memorial and the Commons.
- 3) a somewhat conspicuous location for the memorial building.
- 4) adaptability to future changes.

Among several plans which we have considered the one which seems to us in the whole to fulfil these conditions most satisfactorily is indicated in the accompanying sketch. ^{*} It places the athletic field along the central part

Pres. Maclaurin--2

of the Massachusetts Avenue frontage, the Walker Memorial between the field and the Esplanade, the Gymnasium and Swimming Pool on Massachusetts Avenue at the other end of the field, Student Houses and Commons along the eastern edge of the field.

The advantages of these arrangements are:

- 1) compactness, both of the group in question and of the land left free;
- 2) accessibility for students living in fraternity or boarding-houses across Massachusetts Avenue or Harvard Bridge;
- 3) frontage on the Esplanade for the Walker Memorial.
- 4) separation of the student houses from Massachusetts Avenue
- 5) the best use of land on Massachusetts Avenue less eligible for other purposes on account of dust and traffic.
- 6) feasibility of using the space--except the Walker Memorial, for other purposes if necessary at some future time.

While we thus believe this choice a good one, we realize that further study and fuller information may lead us to something better, or may render it expedient to include one or more alternative plans in the later report which we hope to present in the near future.

Respectfully yours,

A. F. Benda

for the Alumni Committee
on Student Housing.

A. W. J.

for the Walker Memorial
Special Committee.

* The sketch will be sent soon.

I fancy you remember it.
A. W. J.

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, MASS.

DEPARTMENT OF MATHEMATICS.

December 12, 1912.

Dear Dr. Maclaurin:

I am sending herewith some additional printed matter about the Walker Memorial which may be of interest in connection with our conversation of yesterday morning. As I look it over, the social centre and gymnasium ideas ^{seem} inextricably blend^{ed,} and I suppose a critical lawyer might say that the gymnasium was always a prominent element in our announcements. After some wavering I am satisfied that we ought to include gymnasium features in the Walker Memorial, not only on account of the Cilley bequest but in fairness to other contributors. I should think it quite natural to call that part of the building the Walker Memorial Gymnasium. To give such a title to the building as a whole would seem to me unnecessary and misleading, and I should dislike to have a memorial to General Walker given a name which seemed at all misleading; even if it were so christened officially, it would probably never be called anything but The Walker Memorial.

I am sending a copy of this, and a similar collection of printed matter, to Professor Burton.

Very truly yours,

D. H. Zeller

P. S. You will observe that our later printed matter assigns required gymnastic work to the Walker Memorial. I have tried to locate Mr. Cilley's subscription blank, but it is possible that he never sent any as he preferred to have the subscription remain anonymous.

Walker Memorial Special Committee.

The meeting of the committee was held at the Technology Club, December 16, 1912.

Present, Messrs. Burton, Noyes and Tyler; also Messrs. Bourne, Kebbon, Peck and Professor Talbot.

There was discussion of Mr. Peck's article with particular reference to the proposed combination of Walker Memorial and commons, which was urged by Mr. Peck on behalf of the undergraduates, but not approved by the committee. Mr. Bourne's suggestion that the difficulty might be met by a corridor connecting the two seemed to be relatively satisfactory to all.

Mr. Bourne presented a perspective in color and a ground plan, which were approved, as also were gymnasium plans sent in by Dr. Rockwell.

Mr. Kebbon's drawing for the Walker Memorial were examined carefully and approved as to their general character.

The appointment of an undergraduate committee was announced- Messrs. L. C. Hart '13, G. R. Thayer '13, S. H. Taylor '14, T. H. Guething '14, C. P. Fiske '14, T. L. Chase '14, and it was agreed to arrange for an early joint meeting.

Professor Noyes stated that he expected to speak on the Walker Memorial and related matters at the New York alumni meeting, and it was agreed that he would see if arrangements could be made for the use of illustrative material.

It was informally agreed to use a part of the basement of the Walker Memorial for a Walker Memorial Gymnasium, as shown in Mr. Kebbon's drawings.

Provisional List of Special Articles for the
January Technology Review.

(Numbers in parenthesis indicate suggested length of article)

- Introcutstion (2)- H. W. Tyler.
- The Walker Memorial as a Student Club, from the Faculty standpoint (3)
A. E. Burton.
- The Walker Memorial as a Student Club, from the student standpoint
H. D. Peck.
- Walker Memorial and the Instructing Staff (2)- H. P. Talbot.
- Special Features from Other Institutions (3), Illustrated-
H. E. Kebbon.
- A Plan for Student Houses (3), illustrated- A. F. Bemis.
- Relations of Fraternities to Student Houses (2)- L. Allen.
- The Commons (2), illustrated- F. L. Locke.
- What the New Gymnasium should be (3)- J. A. Rockwell.
- The Athletic Field (3)- F. H. Briggs.

Mr. Bourne to prepare a picture showing grouping.

Suggestions for further illustrations invited.

February 19, 1913.

Dear Professor Burton:

The next meeting of the Walker Memorial Special Committee will be a joint meeting with the Student Housing Committee and the Undergraduate Committee at the Technology Club on Wednesday, February 26th at 5:30 P.M.

It is important that questions in which undergraduates are directly interested should be fairly canvassed and, if possible, decided (so far as our committees are concerned) at this time.

I suggest that members of the committee examine the type-written questions distributed yesterday as a basis for the discussion which will presumably relate itself particularly to questions 1, 2, 3 and 8 to 17.

It ^{was} provisionally agreed that later meetings be held Thursday, March 6, and Thursday, March 13th, with a view to presenting our recommendations for discussion at the meeting of the Alumni Council on March 17, and reporting to the President as soon as practicable thereafter. Full attendance at the remaining meetings is of course important. In case you should be prevented, will you kindly let me know in advance.

Very truly yours,

(signed) H. W. Tyler.

Professor A. E. Burton.

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Walker Memorial.

February 16 a joint meeting of the Walker Memorial Special Committee and the Student Housing Committee was held at the President's office at 5 P. M., adjourning afterwards to the Technology Club.

Mr. F. H. Briggs of the Advisory Council in Athletics was present by invitation, and explained his views in regard to the location of the athletic field.

After extended discussion the following votes were passed:

It is the sense of the committee that the athletic field should be so located as to admit of inclosure and not to be overlooked from the windows of the student houses. It is suggested that this be accomplished by locating the gymnasium and swimming pool at the corner of Massachusetts Avenue and Vassar Street, the athletic field running backalong Vassar Street. The location and approximate dimensions are indicated in the accompanying sketch.

It is further suggested that the Walker Memorial be located on the esplanade, near Massachusetts Avenue; that the memorial be connected by a closed arcade with a general dining hall; that the student houses be located between the dining hall and the gymnasium in a quadrangle with its longer axis parallel to Massachusetts Avenue; that the interior part of this quadrangle be not less than 160 feet wide (from east to west) to admit of laying out tennis courts across it; that the houses on the eastern side of the quadrangle be built first and that sufficient space be reserved so that when houses are built on the western side they should have a set back of not less than 20 feet from Massachusetts Avenue.

A bill for Review illustrations was referred to Professor Burton.

The chairman presented correspondence with Mr. Everett Morss, Professor G. W. Patterson, and Members of the Walker Memorial Committee of Nine (in regard to the proposed biography of General Walker) A suggestion that the fund ~~offered tentatively by Mrs. Stoughton Walker~~ be applied if agreeable to her toward the cost of the biography was favorably considered.

It was agreed to have a joint meeting of the two committees, with the Undergraduate Committee, on Wednesday February 26; a later meeting on March 6, and to make a report if possible to the Alumni Council on March 17.

February 19, 1913.

Walker Memorial Special Committee

Records.

1912.

A final meeting for the season was held at the Technology Club on Thursday, June 27th, from 6 to 9:30 P.M.

Present: Messrs. Bemis, Burton and Tyler, of the committee; also Professor Doten, Messrs. Allen, Bourne and Locke.

Mr. Scarff made a detailed and very interesting report on the other institutions he had been visiting during the past five weeks.

It was agreed that Mr. Scarff, after revising the report in line with suggestions offered, would, in the course of a month or so, send it to Professor Gardner, with the accompanying printed matter, plans, etc., in order that it might be examined by members of the committee at their individual convenience.

Copy of letter sent to members of Student Housing Committee. 498

Dr. Maclaurin.

February 21, 1913.

The next meeting of the Walker Memorial Special Committee will be a joint meeting with the Student Housing Committee and the Undergraduate Committee at the Technology Club on Wednesday, February 26 at 5:30 P. M.

It is important that questions in which undergraduates are directly interested should be fully canvassed and, if possible, decided (so far as our committees are concerned) at this time.

I hope you may be able to be present, and will make a dinner reservation unless I hear from you.

Very truly yours,

EASTERN OFFICE
BEMIS BRO. BAG CO.
MARSHALL BUILDING
40 CENTRAL STREET

498

P. O. DRAWER 5173
TELEPHONE MAIN 5547

BOSTON, MASS., Feb. 25, 1913.
AFB-G

Dr. R. C. Maclaurin,
Pres., Mass. Institute of Technology,
Back Bay, Boston, Mass.

Dear Dr. Maclaurin:

Last October or November you may remember meeting with the Walker Memorial Committee and the Alumni Committee on Student Housing at the Technology Club. At that meeting I believe you authorized both committees to assume some slight expense for classification of data. The Student Housing Committee has assumed an obligation of \$13.50, as per enclosed bill, for this purpose. The Committee has no funds of its own with which to meet this. However, I will be very glad to pay it myself unless you prefer to do so out of Institute funds.

The Committee on Student Housing hopes to make its final report to the meeting of the Council, March 17th. I fear it will be quite inadequate and incomplete; naturally, perhaps, the longer one studies the problem the more new and interesting suggestions arise. However, it is past time when the report should be in and certainly the members of the Committee will be glad to be relieved of the work, although it has been very interesting.

Since we met in your office on the afternoon of the 18th, and since the evening meeting of the Committees on that date, I have put considerable thought on the location of the athletic field, etc., and believe the conclusions reached by the Committee at that time that it would be best to place it along Vassar Street were wrong, and believe that, for the most economical and best use of the site, it ought to be placed quite differently. Would there be any serious objection from an educational point of view if the athletic field were placed between two of the larger educational buildings? Such an arrangement would certainly be economical of space, giving those buildings the advantage of light and air that would come from the large open area of the field.

Yours truly,

A. F. Bemis

[2/26/13]

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Dear Mr. Bemis:

The bill that you have sent to me for \$13.50 is of a kind for which I assume^d responsibility on behalf of the Institute, and I have accordingly passed it on to the Bursar for payment.

I am looking forward with much interest to the report of your Committee on Student Housing. The problem is, of course, a large one and it would not be reasonable to expect a group of busy men to exhaust the possibilities of study suggested by the various issues that present themselves. I have no doubt, however, that by this time your Committee must have arrived at certain definite conclusions that should be most helpful in the solution of our problem. With reference to the location of the Athletic Field, etc., I had acted on the supposition that the last report of the Walker Memorial Committee on this matter was final, and had therefore sent on the recommendations to the architect. However, of course it is not too late to present another view, especially as it is fairly evident that there is a good deal that might be said in favor of

Mr. Bemis - 2.

other locations than the one recommended by the Committee. In this connection, it seems to me that the value of the Committee's recommendations would be enhanced if some indication were given of the reasons that guided them in making their recommendations. Whether you bring the Committee around to your view or not, I should value very highly an independent expression of your opinion on this matter. It is at once obvious that the location of the Athletic Field along a street is not economical of space.

Yours sincerely,

February 26, 1913.

Mr. A. F. Bemis,
P. O. Drawer 5173,
Boston, Mass.

EASTERN OFFICE
BEMIS BRO. BAG CO.
MARSHALL BUILDING
40 CENTRAL STREET

P. O. DRAWER 5173
TELEPHONE MAIN 5547

498

BOSTON, MASS., Feb. 27, 1913.

AFB/H

Dr. Richard C. Maclaurin, President,
Mass. Institute of Technology,
Boston, Mass.

Dear Dr. Maclaurin:-

Thank you for yours of the 26th.

It is the purpose of the Alumni Committee on Student Housing to make its final report to the Alumni Council Monday evening, Mar. 17th. In making up this report we shall follow your suggestion to give reasons as far as possible for all conclusions.

There was a meeting last evening of the Walker Memorial Committee, at which the resolution passed at the previous meeting in regard to the athletic field was somewhat modified, with the view of giving Mr. Bosworth a freer opportunity of locating the field to the best advantage, considering everything. As the recommendation of the Walker Memorial Committee now stands, I think it represents as clearly and fully as possible the consensus of all student and alumni opinion regarding the location of the field.

Yours truly,

A. F. Bemis.



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Dear Dr. Tyler:

I understand that the Walker Memorial Committee desires to make some changes in the form of its recommendations with reference to the location of the Athletic Field. I should be glad to have this expression of the views of the Committee as early as possible for transmission to Mr. Bosworth.

Yours sincerely,

February 28, 1913.

Dr. H. W. Tyler.

M. I. T.
ALUMNI ASSOCIATION.

Walker Memorial Committee.

- | | |
|-----------------------------------|------------------------------|
| H. W. TYLER, '84, Chairman. | C. M. BAKER, '78, Treasurer. |
| C.-E. A. WINSLOW, '98, Secretary. | |
| R. H. RICHARDS, '68. | W. B. THURBER, '89. |
| THOMAS HIBBARD, '75. | J. L. BATCHELDER, JR., '90. |
| EVERETT MORSS, '85. | A. F. BEMIS, '93. |

Boston, February 28, 1913¹⁹⁰

Dear Dr. Maclaurin:

You will see by the accompanying duplicate record that our committee decided not to modify its original vote in regard to the location of the athletic field. The considerations involved are substantially these:

The Advisory Council on Athletics deems it essential -and we all think it important- that the athletic field shall be inclosed and screened in such a manner that the revenue from paid admissions shall not be sacrificed.

We all agree that it should be quite near the gymnasium. Mr. Bemis is inclined to feel that architectural effect and economy of space may be somewhat sacrificed by locating the field along Vassar Street, but as our resolution merely suggested this location he agrees in letting it stand, with the expectation that if the architect finds a different arrangement preferable and consistent with an inclosed field adjoining the gymnasium, he will be quite free to propose it. I think the other members of the committee have less doubt about the Vassar Street location for the field. I like it particularly because it seems to me the field ought to be so located that there will be no occasion to cross it in going from building to building, and that in almost any other part of the tract it would be inconvenient in this respect.

As to other reasons for our location proposals, it is perhaps sufficient for me to say that we think the Walker Memorial should be in a somewhat conspicuous location, without too great a sacrifice of convenience of access, and that esplanade frontage is important. The dining halls would be quite near the Walker Memorial, and should be convenient of access from all other parts of the site. The student houses should be near the buildings just mentioned, and should be either on Massachusetts Avenue, or on the esplanade, for convenience of access from outside and for compactness, both of these and of the educational buildings. We should be strongly opposed to locating them in proximity to the factory districts.

Very truly yours,

A. H. Jen

Dr. R. C. Maclaurin.

WALKER MEMORIAL SPECIAL COMMITTEE

[encl 2/28/13]

The meeting of the committee was held at the Technology Club on Wednesday, February 26, 1913, at 5:30 P. M. All members of the committee were present; also all members of the Student Housing Committee. At dinner, and later, the committee of Undergraduates was present -Messrs. Hart, Thayer, Chase, Taylor, Fiske and Guething.

At the preliminary session it was voted at the request of Mr. Bemis to reconsider the vote of February 18 in regard to the location of the Athletic Field. As it appeared, however, that the terms of the original vote merely suggested that the athletic field lie along Vassar Street and did not, therefore, stand in the way of any alternative which the architect might consider more favorable, no modification was made of the original vote.

A letter having been presented from Major Cole urging the desirability of a shooting gallery in the basement of the Walker Memorial, it was voted that this recommendation be approved.

It was voted to approve the bill of \$90 for illustrations in the Technology Review; the division between the Walker Memorial and other purposes being referred to the chairman.

The chairman announced the appointment of a committee (Messrs. S. K. Humphrey, C. W. Doten and J. P. Munroe) of the Technology Club to confer with the present committee with a view to ascertaining what provision for the Technology Club would be possible in the Walker Memorial.

The chairman announced an agreement with Mr. Fay for devoting the Alumni Council meeting of March 17 to the reports of the two committees.

It was agreed to meet again on Thursday, March 6, and **probably on Thursday the 13th.**

At the after-dinner session the questions affecting the Undergraduates were discussed with them at length on the basis of the articles in the January number of the Technology Review. The following notes, based on this discussion:

In regard to the list of principal features, it was suggested that a swimming pool, on account of its expense, might perhaps be reserved if any item had to be reduced or cut out.

In regard to an infirmary it was urged that the present provision for medical advice is inadequate and that daily attendance of a physician would be desirable. Dr. Rockwell explained his idea of an infirmary as meaning the reservation of a section in a student house, under the charge of a physician and a male nurse. the former might also have charge of work in Physical Culture.

It was thought desirable to have a coöperative store if we could have one of a character similar to the Harvard Cooperative.

In regard to the various items to be included in the Walker Memorial, the Undergraduates expressed a desire for some bowling alleys. They favored reserving the Walker Memorial Gymnasium for the use of the instructing staff and alumni. A check room of sufficient size was recommended to be placed near the main entrance. It was recommended that the writing room and card room, on the first floor, be shifted to the rear of the building. There was discussion of a partial separation by an entrance lobby or screen from the main lounging room, and it was stated that a separate exit from the auditorium would probably be necessary.

In regard to the auditorium there was considerable discussion as to its size with reference to the desirability of a hall seating about 1000. It seemed on the whole preferable that the auditorium should be about as indicated in the Review plans, leaving larger affairs to be given in the general auditorium, which would presumably take the place of Huntington Hall. ^

It was also suggested that for particular purposes, the lounging room might occasionally be ~~converted~~^{vert} into an auditorium.

It was agreed not to reserve a separate trophy room, but retiring rooms near the auditorium were thought desirable.

In regard to membership, some preference was expressed for association membership of instructing staff and alumni. In regard to a uniform assessment on undergraduates, it was considered preferable that this should be devoted to the maintenance of the Walker Memorial, the infirmary and such part of the athletic system as might fairly be chargeable to students in general, leaving the maintenance of the gymnasium as a necessary charge upon the general treasury. It was thought that the total tax on the undergraduates ought not to exceed ten dollars, which might be divided as follows: Walker Memorial five dollars; infirmary, three dollars; athletics, two dollars.

There was also discussion of plans for dining halls and student housing (notes by Mr. Bemis ?).

Boston, Mass., Mar. 6, 1913.

AFB/H

Dr. Richard C. Maclaurin, Pres.,
Mass. Institute of Technology,
Boston, Mass.

Dear Sir:-

As a committee appointed by the Alumni Association last April to study and report upon the problem of the housing of students upon the new site, we, the undersigned, expect to make our report to the Council at its next meeting, Mar. 17th. There is one feature of the problem which we believe to be of extreme importance, but to which we do not feel free to allude in our regular report. Nevertheless, we believe very strongly that it should be placed before the Executive Committee of the Corporation.

With the opening of the new buildings of the Institute, an ample and complete dormitory system, accommodating at least 500 men and costing \$600,000.00 fully furnished and equipped, but without including the cost of land or dining accommodations, should be ready for occupancy and use. Otherwise, privately owned dormitories would spring up near the site which, however well-constructed and well-adapted to the purpose, would seriously hamper the Institute in the subsequent solving of the all-important new problem of the proper housing and care of students who come to it from a distance.

After having studied the possible dormitory locations within the main site, and from what we know of the funds available for dormitories, we believe that the Corporation will find either that the area of the new site is insufficient for the best ultimate development of the Institute, or that funds are lacking for the immediate provision of a dormitory system. We are not competent to decide either of these questions, but we do believe it to be of the utmost importance that the Corporation should soon and seriously consider the development of its dormitory system on a separate site ^{adjacent to} the main one already provided. In so far as this matter may be considered at all, it should be given attention now before the general plan for the development of the new site takes on more definite shape.

A separate location for the Institute's dormitories, preferably on the esplanade, would have advantages, all of which should appeal to your honorable body, namely:-

1. The main site would thus be reserved almost entirely for the development of the educational buildings, and for that purpose would probably be ample for fifty years.

2. A dormitory system off the site would be a proper asset ~~upon~~ which the entire cost of same could be raised by mortgage notes or otherwise, and a profit obtained from the dormitories sufficient at least to pay the interest on such indebtedness, if not gradually to retire the mortgage.

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Dear Mr. Bemis:

At the regular meeting of the Executive Committee held on Monday last, the letter of March the 6th from the Alumni Student Housing Committee, of which you are Chairman, came up for consideration. After discussion, it was agreed that further consideration of the plan suggested should be postponed until the architect had presented preliminary plans, embodying his suggestions as to the disposition of buildings on the new site.

I should be glad to see you at your convenience to discuss the problem with you.

Yours sincerely,

March 12, 1913.

Mr. A. F. Bemis,
P. O. Box 5173,
Boston, Mass.

3. The ^{only Satisfactory} ~~best~~ solution of the problem of the relation between fraternity and non-fraternity life under the new conditions across the river.

4. The development of a dormitory system off the main site could be turned over to a board of trustees, not only to finance, but to manage, thus relieving the Corporation and faculty from direct responsibility for a serious problem which might better be handled by an independent body.

We therefore urge your serious consideration of this matter and respectively remain,

Very respectfully yours,

Lawrence Allen
Frank A. Bourne
Charles W. Eaton
Frank L. Locke
A. F. Barnes, Chairman

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Dear Mr. Bemis:

I feel that no perfunctory vote of thanks could suffice for the masterly report that your Committee presented to the Alumni Council on Monday - a report that is now in my hands. It will, of course, be presented to the Executive Committee in due season, but the four members who have already seen it share my view that it is a document of unusual value. I hope that we can have a talk some time next week with reference to the general problem. Could you not lunch with me at the Union Club on Thursday or Friday, or would a later date be more convenient?

Yours sincerely,

March 20, 1913.

Mr. A. F. Bemis,

P. O. Box 5173,

Boston, Mass.

Committee Meeting Friday, April 4, 1913.

The twenty-second meeting of the committee was held at the Technology Club. Present, all members of the committee, also Messrs. Hibbard, Richards, Baker, Thurber and Batchelder, of the alumni Walker Memorial Committee (all but Professor Winslow, who sent a letter from New York, and Mr. Morss, who though it better not to attend in view of his membership in the executive committee of the Corporation).

After informal discussion of a general character the 51 recommendations of the committee of five were read by the chairman, together with suggestions sent in by Professor Winslow.

It was voted in number 23 that the dues for associate members by \$10 per year for persons living within a radius of fifty miles, \$5 per year for those outside that limit.

In number 25 it was voted that the committee of seven include 3 representatives of the alumni and 2 of the Faculty.

Dr. Rockwell presented an alternative plan in regard to the gymnasium, providing for a single ground floor with an estimated saving of perhaps \$50,000 in the cost of the building. He was requested to discuss this plan with others interested, as a basis for definite action at a later meeting.

It was the sense of the committee that in presenting the report to the Alumni Council, emphasis should be placed on the fact that the recommendations for spending about \$600,000 in meeting the social and physical needs of students correspond with the announcements of the present fund committee, and to suggest to the Council that it might be appropriate to circulate the report, or a part of it, as a basis for further subscriptions.

In regard to the question of the biography of General Walker there was difference of opinion as to whether the alumni committee should plan for a memorial address to be circulated in pamphlet form, or for a brief biography in addition to this. It was agreed, after discussion, to present the matter to the Alumni Council, asking that a provisional invitation for subscriptions be circulated to the alumni, *as a matter of interest.*

Vote of the Alumni Committee.

It was voted that the alumni Walker Memorial Committee having examined the proposed recommendations of the special committee on the Walker Memorial and discussed them in joint session with that committee, report to the Council its general approval of these recommendations, and it is hoped that the Alumni Council will recommend their approval by the Corporation.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BOSTON, MASS.

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April 8, 1913.

Dear Dr. Maclaurin:

The result of my inquiry among first and second year students was that about forty per cent. of the students would expect to come to the new site by the way of Harvard Bridge; twenty per cent. by the way of Kendall Square, assuming the new subway from the South Station to be available, the other forty per cent. living on the campus. These figures are based on a total of about four hundred and fifty students.

I inclose a memorandum of reasons for preferring that the student quarter should be near Massachusetts Avenue. While somewhat personal in form, it represents in the main the judgment of the committee. The sketches referred to were to have been prepared by Professor Burton, but are perhaps scarcely necessary. In advocating compactness we do not mean to imply any preference for a single large building. I am sending a copy of this to Mr. Bosworth.

Very truly yours,

Dr. R. C. Maclaurin

R. C. Maclaurin

Some Reasons for Preferring the Massachusetts Avenue
Location (Plan 1) for the Student Quarter,
rather than that near Ames Street (Plan 2).

- 1 The educational buildings should be above all compactly grouped; then, also, conveniently related to each other and accessible from Harvard Bridge and Kendall Square. Most students combine work in two or more departments, their tabular views are crowded, and necessary traveling between buildings should be reduced to a minimum. Such travel is one of the most serious difficulties in our present location. There is no department whose work is complete in itself, every one has relations with every other; every one has relations with the administrative center; nobody can foresee which department will expand first or most. The best grouping, educationally, should therefore ~~start~~ start with a compact layout and with a boundary as elastic as possible, at as many points as possible.
- 2 The student quarter also needs to be compact, but in a somewhat qualified sense. The maximum compactness of the educational buildings need not interfere with whatever is really necessary for the other. There is no harm, for example, in a five to ten minute walk each way at noon.

The Walker Memorial should be near the main currents of student travel, that is, near the dining hall, to which most students will go at noon, and near the most popular homeward route of those who live off the campus. It should also be convenient of evening access from outside.

It seems to me, therefore, preferable to locate the student quarter along Massachusetts Avenue. While both plans leave a compact area for present educational buildings, whenever additional space is needed for them, Plan 1 will admit of freer future expansion to the east (see accompanying sketches). In case of considerable future expansion, the student-quarter would, under Plan ² 1, form a sort of interior island, separating the education buildings from each other. Such expansion as the student quarter might gradually require should, I think, be sought outside the campus, by locating future student houses in neighboring residential districts.

The Walker Memorial in Plan ² 1 is off the line of travel for students living outside the campus, and inconvenient of access in the evening for persons coming either from Massachusetts Avenue or from Kendall Square.

It seems to me better, for social reasons, that the student houses should be near Harvard Bridge and the residential districts near it, rather than adjoining the factory district east of Ames Street.

The superior location of a few student houses in the Esplanade, (in Plan ² 1) seems to me rather undesirable.

The Walker Memorial Committee desires only that the above considerations have due weight in connection with others which would naturally present themselves.

D. W. J.

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BOSTON, MASS.

DEPARTMENT OF MATHEMATICS.

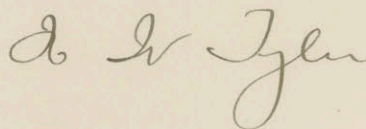
May 20, 1913.

Dear President Maclaurin:

I am glad to transmit herewith the completed report of the Walker Memorial Committee. I hope it is not too bulky to be useful. It seems probable that we may receive some additional data for subsequent transmission to you between now and the end of the school year, but we prefer not to delay the main report on account of this.

We venture to express the hope that we may have an opportunity to cooperate in any necessary revision, or adjustment of our part of the new Institute plan to whatever program may be adopted by the Executive Committee.

Very truly yours,



P. S. I am glad to furnish carbon duplicates of the report for the use of members of the Executive Committee if desired. These have not, however, the photographs and plans.

President R. C. Maclaurin.

REPORT OF SPECIAL COMMITTEE

ON

WALKER MEMORIAL, ETC.

REPORT OF SPECIAL COMMITTEE ON
WALKER MEMORIAL, etc.

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REPORT OF THE WALKER MEMORIAL COMMITTEE.

The special committee on the Walker Memorial respectfully submits the following report on the matters referred to it in connection with the development of the New Technology.

I.

A. Appointment and Functions of the Committee.

The present committee was appointed by President MacLaurin, March 23, 1912, at the instance of the Walker Memorial Committee of the Alumni Association - and indirectly of the Alumni Council - "to work out a more definite and concrete plan for the Walker Memorial", and "to submit plans for this building". Subsequently, and informally, the committee has been invited by the President to consider and report on certain other matters, mentioned below, affecting the physical and social welfare of students, in cooperation with an alumni committee on Student Housing.

B. Procedure.

The committee has held more than twenty meetings, several of which have taken the form of conferences on special topics with members of the Faculty and with groups of undergraduates. It has collected and studied a large mass of data from other institutions through visits by Mr. J. H. Scarff, '11, as its representative, and by the courtesy of Mr. J. R. Freeman and his alumni agents. It

has corresponded with alumni, with college graduates at the Institute, and in general has sought to study its whole group of problems both broadly and thoroughly, as a basis for the present report.

Members of the committee have visited the student Unions at Harvard, Brown, Columbia and the University of Pennsylvania.

In the Technology Review for January, 1913, the committee published, in coöperation with the alumni committee on Student Housing, a series of illustrated articles on the matters under consideration, as an informal preliminary report, which might elicit useful criticism. Since that time it has particularly invited criticism, or approval, of the plans from the alumni Walker Memorial Committee, from the Alumni Council, and from a Committee of Undergraduates.

Those portions of the report which deal with physical education and athletics have been prepared with the cooperation of the alumni Advisory Council on Athletics. The earlier gymnasium plans have been referred to several of the leading college gymnasium directors of the country, and the committee is particularly indebted to Dr. Meylan of Columbia University, Dr. Storey of New York City College, Dr. Raycroft of Princeton, and Dr. Anderson of Yale University. The Committee has also secured the cooperation of representatives of the Faculty and of the Technology Club in connection with questions of the use of the Walker Memorial by instructing staff and alumni.

II.

Location and Area.

(The present committee has had no direct concern with the matter of Student Housing or the Dining Hall. It has seemed clearer, however, to present a combined plan which agrees in a measure with the third of the alternatives presented by the committee on Student Housing).

In view of the extreme variety of considerations affecting the general question of location, we have not deemed it within our province to attempt a quite definite recommendation. On the other hand, it has seemed to us that location is so large a factor in connection with our particular work that we ought to deal with it so far as our limitations might permit. In doing this we have accepted the following guiding principles:

1. That we consider the matters with which we are concerned distinctly educational, and are of opinion that due provision can be made for them without interference with those buildings which are educational in the stricter sense.
2. That compactness of the strictly educational buildings, both now and in case of future expansion, is of paramount importance.
3. That for the sake of economy of space, buildings would probably have not less than four stories.
4. That the Walker Memorial, as a memorial building and as a center for the whole social life of our students, ought to have a conspicuous, attractive and convenient loca-

tion. It should be worthy of as fine a site as can be selected for it.

5. That the Walker Memorial, the Gymnasium, the Student Houses, and the Dining Hall, should be permanent buildings; that the Athletic Field should be planned for use for not less than twenty-five years, thereafter admitting of replacement if required by the Institute's general growth.

6. That the Athletic Field should be so located as to admit of inclosure, and not to interfere with direct passage between the different buildings. We shall be glad if it can, at the same time, be so placed as to contribute to the general architectural effect.

Therefore, with such information as we have regarding the general building problem, and in accordance with representations by the Advisory Council on Athletics, we recommend (see Plan 1), as already proposed by letters of February 20 and 28, to President MacLaurin:

that the Walker Memorial be placed near the corner of Massachusetts Avenue and the Esplanade, facing the latter;

that the Dining Hall be next the Memorial, on the north or east;

that the Walker Memorial and the Dining Hall be connected by an Arcade;

that the Gymnasium occupy the corner of Massachusetts Avenue and Vassar Street, with the Swimming Pool adjoining it on the south;

that the Athletic Field extend eastward from the Gymnasium along Vassar Street;

that the space along Massachusetts Avenue, between the Walker Memorial and the Dining Hall at one end and the Gymnasium and Swimming Pool at the other, be used for quadrangles of Student Houses;

that the interior of these quadrangles, and other available open space, for example, the strip of land north of Vassar Street, be used for tennis courts;

that the ground areas be approximately as indicated on the accompanying plan, and in the descriptive statement below.

Our reasons for preferring the above arrangement to the first choice of the Committee on Student Housing (see Plan 2) are briefly as follows:

While the location of the Walker Memorial near Massachusetts Avenue is less central than that suggested by the Committee on Student Housing, it is much more convenient for use by the considerable number of students who will live within walking distance across Massachusetts Avenue or in the Back Bay. This location is also much more convenient of access for social functions in the evening.

It seems to us disadvantageous to locate the student quarters near a manufacturing rather than a residential district, and to have a marked inequality in the location of different student houses - as would naturally be the case if only a fraction of them faced the Esplanade.

While we do not favor a single large building, we regard a high degree of compactness of the educational buildings as of very great importance. It would be difficult to

(8).

preserve this if the student quarter were located along the eastern boundary, and if the Institute should sooner or later expand its educational plant beyond that boundary.

The committee appreciates that considerations lying outside its province may necessitate modification of these plans, and offers them merely as a possible solution which may serve as a basis for the ultimate one. Whenever a general building scheme is adopted the committee would welcome the opportunity to revise its recommendations to any necessary extent.

WALKER MEMORIAL.

A. Introduction.

As this part of the report deals with the main and primary problem of the committee, a brief review may be appropriate.

The Institute's first gymnasium dates from 1874; the present student Union from 1908.

Almost forty years ago, President Runkle said in his annual report to the Corporation:

"Where the health of one student is injured simply by overstudy, the health of many is injured by want of exercise, or other preventable causes, while overstudy is usually the only cause assigned. It is true that each class hears an excellent course of lectures on Physiology and Hygiene, but it is to be feared that too few make a personal application of what is taught them, and thus fail to gain what this instruction is mainly intended to impart. I am deeply impressed with the conviction that a radical change in this department is necessary, and that the laboratory system is quite as important in this as in other departments of the school. To make the instruction of the greatest value to each student, it must be applied practically in each case; and while I am not now prepared to advocate a compulsory system of gymnastics, I am satisfied that incalculable good would come from a more personal application, with opportunities for systematic exercise under the direction, not of a mere gymnast, but of a physician who had made this application a matter of special study."

General Walker, who was president from 1881 to 1897, keenly interested as he was both in athletics and in student welfare, found other needs of the growing Institute still more urgent than these. On his death the alumni undertook to raise funds for a Walker Memorial Gymnasium, as the most fitting memorial to him. It was soon afterwards determined to combine with the gymnasium provision for social needs, and the subscription of \$100,000 was completed

in 1901, though it was well understood that this amount would by no means suffice for the dual purpose. A definite tract of 10000 square feet was assigned for the Walker Memorial by the Corporation, and plans for a building prepared, but no further steps were taken until quite recently, in consequence of uncertainty as to the future location of the Institute. In the meantime, however, after a beginning in the Garrison Street building, generous friends of the Institute have made in the present Tech Union, temporary provision for some of the purposes to be served by the Walker Memorial.

B. New Conditions.

Now we have to consider a new and different problem, viz: the best means of making adequate provision for both the social and the physical needs of two thousand students - perhaps three thousand within twenty-five years, - with a broader future outlook and an ampler site.

C. Gymnasium and Social Center Separate.

A first consequence of these changed conditions is our conclusion that there should be two buildings, one a gymnasium, the other a social center. We are convinced that each can be better adapted to its purpose if kept distinct, and that there will be no accompanying sacrifice of economy or efficiency of management. It seems to us clear that the social center, rather than the gymnasium, should retain the title "Walker Memorial", but it is desirable in connection with the proposed use of the building by alumni and instructing staff, and in harmony with the terms of the Gilley be-

quest, that the Walker Memorial include a small gymnasium. So far as other donors may have been interested to contribute to the Walker Memorial for the sake of its gymnasium side, we feel justified in assuring them that their aims will be more fully accomplished under the plan we propose than they could be in a single building serving both purposes. The Institute will certainly build a good gymnasium as one of the main objects of both the former and the present alumni subscription.

D Purposes of Walker Memorial.

The chief purposes of the Walker Memorial may be classified as follows:

Student social affairs.- large and small dinners, dances, shows, receptions, concerts.

Student organizations.- Institute Committee, Christian Association, Walker Club, Cosmopolitan Club, debating and political clubs, dramatic societies, etc. etc.

Student Publications.- Tech, Technique.

Personal and Recreational.- library and reading room, pictures and statuary, music, lectures on art, travel, literature, etc.

It has seemed to the committee, after careful consideration, distinctly undesirable to include the general dining hall in the Walker Memorial. We have endeavored to secure the maximum convenience of access between the two by a connecting arcade.

With reference to serving these purposes, the following plan is presented.

E The Building.

The architectural design and the choice of building material will naturally depend on the working out of the corresponding problem for the Institute as a whole. The Memorial should be in its general character simple, dignified and attractive. It should be easy of access and entrance on all sides, with abundant light and thorough ventilation. There should be ample provision in the form of porticos, terraces, etc., for such out-of-door sociability as has in the past found a limited place on Rogers steps. Outdoor seats are desirable, as at Columbia University, for example.

In attempting to determine the appropriate size and proportions of the building and its parts, the committee has naturally been guided somewhat by the experience of other institutions, although differences of conditions necessarily restrict the validity of the comparison.

It seems to us important to provide for present and future attendance, but hardly less important to avoid the effect of a building too large for those who use it - bearing in mind the limited leisure of our students. The ground area should, we believe, be about 13,000 to 14,000 square feet.

F. The Interior.

For the sake of definiteness in studying problems of interior arrangement, the committee has had sketch-plans prepared by Mr. H. E. Kebbon, '12, and published in the Technology Review for January, 1913. More recently revised plans have been prepared under the direction of Professor Taylor, these

(13).

are submitted herewith for reference in connection with the following recommendations, with due regard to their provisional character.

There should be a basement and three floors, arranged approximately as follows:

The Basement should include:

a grill room seating 125 (2000 sq.ft.), three smaller dining rooms - one open to ladies - seating 10 to 15 each, and arranged when thrown together to seat 50 (800 sq.ft.);

a check room, cigar stand and telephone booths (700 sq.ft.);

an auxiliary kitchen, serving room, pantry, service lavatory (1500 sq.ft.);

the Tech office (1000 sq.ft.);

a small gymnasium for squash, etc., with shower baths and lockers (3000 sq.ft.);

general lavatory (500 sq.ft.);

ladies' retiring room (200 sq.ft.);

a shooting gallery, without windows (10' x 80');

six bowling alleys under the terrace (3100 sq.ft.).

Total net floor space 13,600 feet.

The basement should have an entrance from the Arcade, and a service passage. The basement rooms should have not

less than 10' - 12' feet height.

The First Floor should contain a general living room (3500 sq. ft.), with fire places, settles, etc., open in general effect; a convenient check room for day and evening use, connecting, if practicable, with that in the Arcade (300 sq. ft.); reception room (200 sq.ft.); office (300 sq. ft.); a library, reading room and writing room, with wall space for 100000 volumes (smoking not allowed), (3000 sq.ft.); Faculty and Alumni reading, writing and smoking rooms (3000 sq.ft). Total 10300'. This floor should be adapted as a whole for occasional use for evening receptions, etc. There should be an entrance from the Arcade, as well as from outdoors. The living room should be about 25 feet high, the other rooms in the first floor about 12-1/2 feet.

The Second (Mezzanine) Floor should contain:

an auditorium, seating 400, with a gallery, seating 100, with movable chairs to admit its use for small dances, etc., ante-rooms, lavatories, etc., (3500 sq.ft.);

a billiard and pool room, with eight tables, card room and game room, (3500 sq.ft.);

offices for the Walker Memorial Committee, the House Committee and the Institute Committee, (500 sq.ft.); for the Technology Christian Association, (500 sq.ft.); for the Walker Club, (300 sq.ft.), and for the Cosmopolitan Club, (500 sq.ft.). Total 8800sq.ft.

The remainder of this floor would be occupied by the upper part of the living room, over which small galleries

might look.

The auditorium should be about 20 feet in height, the other rooms about 10-1/2 feet.

The Third Floor should be divided into offices for student activities, including Technique, (1000 sq.ft.), Musical Clubs, (1000 sq.ft.), Tech Show, (1000 sq.ft.), additional rooms for study and committee meetings.

A few sleeping rooms for guests of the Institute might also be provided. The auditorium will extend up through this floor. The height of rooms should be about 10 feet.

The building should be constructed in such a way that future expansion would not be impossible.

A comparison of main features of the proposed Walker Memorial with similar buildings will be found in connection with the account of student unions at other institutions.

G. Organization and Administration.

While matters of organization and administration lie somewhat outside the field of the present committee, we have found it hardly practicable to deal with the other questions independently of these, and accordingly submit certain suggestions in regard to them:

The Walker Memorial should be organized as a club, with an active membership including all male students, paying annual dues of say \$4, and an associate membership open to instructing staff and alumni, with annual dues of \$10. for those living within fifty miles, \$5. for those living outside that limit. Membership cards should be used.

The provision for associate membership should not be regarded as implying the least restriction on visits to the Walker Memorial by alumni who are not associate members. All alumni visitors should be welcome.

The immediate management should rest primarily with a House Committee elected by the undergraduates, which should have power to make and administer rules for the use of the Club by active members, subject to the approval of the President of the Institute.

The plan of organization and the house rules should be worked out in detail by the present Institute Committee.

The business and financial management of the Club should be exercised under the general direction of the President and Corporation of the Institute by a Walker Memorial Committee of seven, including three representatives of the alumni, two of the Faculty, and two of the undergraduates - for example, the President of the Institute Committee and the Chairman of the House Committee. This committee might well be organized in the near future. The present Walker Club might well be assigned some special responsibility. Rooms for student organizations should be reallocated annually. Organizations not representing the whole student body should pay a small rental for the exclusive use of the auditorium.

Particular pains should be taken, with the minimum exercise of authority, to develop and maintain high standards of orderliness, decorum, and good taste. It should be a gentleman's club in the best sense, to be worthy of its name.

The persistent misuse of its privileges should en-

tail suspension or forfeiture of membership.

Billards and bowling should be selfsupporting, or better, and should be restricted, if needful, against excessive use by the individual student.

There should be a graduate treasurer and a superintendent or manager, capable of checking any real breach of discipline very promptly.

Special care should be taken to make the building attractive on Sundays. Religious services might be held regularly in the auditorium by arrangement with outside clergymen through the Technology Christian Association.

Sunday afternoon concerts would be desirable.

The grill room should be somewhat superior in service, accessories and prices to the general dining hall, but all supplies should be purchased through a single officer, and economy by cooperation should be sought.

H Provision for Faculty and Alumni.

The Walker Memorial, as above described, would seem likely to meet the social needs of the instructing staff to a considerable extent. In common with the alumni, they have rooms for reading, writing and smoking. The grill room and the special dining rooms will be shared by them with undergraduates. For special occasions either dining room might be secured in the evening, as might also the auditorium on the second floor. The gymnasium, baths and lockers in the Walker Memorial may include special provision for the staff and alumni.

It is assumed that provision will be made elsewhere

for the Technology Teas, etc..

In recommending this provision for instructing staff and alumni, it is our belief that this will involve no sacrifice of the primary purpose of the Memorial to serve the social needs of the students. We are convinced rather that such association with older men, as our plan promotes, will be both desirable and welcome to the students.

We recommend that the relation of the alumni as donors of the Walker Memorial be expressed each year by a meeting under the auspices of the Alumni Association at which new students shall be welcomed to membership in the Walker Memorial.

The Arcade.

This is designed primarily to facilitate passage between the Walker Memorial and the Dining Hall, so that the former shall be used by the maximum number of students. At the same time it should afford a most favorable location for many important adjuncts, for example; the student post office - which might perhaps be a United States sub-station (400 sq. ft.), a check room, in connection if possible with that in the Walker Memorial (200 sq.ft.); a book and stationery store (800 sq.ft.); a news stand, soda fountain, confectionery and tobacco stands (500 sq.ft.); a barbershop, etc.(300 sq.ft.); provision for any necessary number of lockers. These items should yield a substantial revenue. The Arcade might well have two stories; there should at any rate be passage between both the basements and the first floors of the Walker Memorial and the Dining Hall, including a convenient service passage in the basement.

J Student Unions at Other Institutions.

(This is based on a report prepared for the committee by Mr. J. H. Scarff, on Mr. H. E. Kebbon's article in the Technology Review for January, 1913, and on reports prepared under the direction of Mr. J. R. Freeman).

The student unions which have been studied by the committee, or its representatives, include those at the following institutions: Brown, Chicago, Dartmouth, Harvard, Lehigh, McGill, Michigan, Ohio, Pennsylvania, Toronto, Yale. Among these, Rockefeller Hall at Brown, Houston Hall at Pennsylvania and the Ohio Union, have impressed us as corresponding most closely with our own needs and plans, while Hart House, now under construction at Toronto, is most impressive in its scale and completeness.

Houston Hall, erected in 1896, as a memorial of a Pennsylvania student, cost about \$100,000, and covers 12000 sq.ft. Membership here is required of the 3500 students, with a fee of \$3. It is said to be too small.

The Ohio Union, completed in 1910 at a cost of \$100,000, provides for 2000 students, with a ground area of 9000 sq.dr. Membership is compulsory for undergraduates - a policy of their own choice - and is open at the same rate to the Faculty and resident alumni. The restaurant problem has given some difficulty, but seems to be approaching solution. Bedrooms for university guests are included. The kitchen (1100 sq.ft.) is said to be too small. Bowling alleys and a lunch counter are placed together. The whole building is said to be in constant use.

Rockefeller Hall, built in 1910, covers 7700 sq.ft. and cost \$100,000 (23-1/2 p. cu.ft). The membership is about 725

In the Harvard Union, which cost \$150,000 in 1901, membership is voluntary, and the participation of alumni is greater.

The McGill Union, built in 1906, covers but 6600 sq. ft., but cost \$170,000. It is said to be "the best designed building in Montreal". The male undergraduates number about 1300.

Hart Hall at Toronto, now under construction, includes a gymnasium and swimming pool as well as the usual features of a union; has a ground area of 75000 sq.ft. and is expected to cost \$1,500,000. For more convenient comparison some of the principal features are tabulated below:

Principal Features of the Proposed Walker Memorial
in Comparison with Other Student Unions.

	Students	Dues	Ground Area	General Lounge	Student Auditorium and Seats.	Restaurant	Billiards	Library Reading-Room	Cost Unfurnished
Walker Memorial	2000+	\$4.	13000	3500	3000 (500)	2000 (+2000)	2000 (8)	2 x 2500	\$225,000
Tech Union	1600	---	4500	2700	Huntington Hall 5650	3700		Gen. Library 2600	-----
Houston Hall (Penn.)	3000	\$3.	12000	1750	2400 (400)	1160	4600 (17)	1760	\$100,000
Ohio Union	2000	\$2	9200	2800	1800	3450	1800 (8)	540	120,000
Brown Union	700	\$4.	7700	1600	2250 (325)	1050	1575	2x1575	100,000
Hart House (Toronto)		\$2-\$4 ?	79000*						\$1,500,000
McGill Union	1300		6600	1800	4000 (400)				170,000
Harvard Union		\$10.		3800		2030 +740		2x2000+ 3x875	
Reynolds (Chicago)	500+ 200++			2200	5250	2700	2000	2400	

* including gymnasium and pool

+ members

++ associate members.

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Reynolds (Chicago)	500+ 200++			2200	5250	2700	2000	2400	

* including gymnasium and pool

+ members

++ associate members.

IV.

THE GYMNASIUM AND SWIMMING POOL.A Purposes.

The primary and chief purpose of the gymnasium - as of the athletic field, swimming pool, etc. - is the combination of physical education and physical recreation for our students, without which they will lack the health and knowledge of right living necessary for achieving the highest results either as engineers or as men. At the same time it is important that there should be an active interest in competitive athletics. Within limits this is beneficial in itself, and may contribute greatly toward the general physical welfare.

In planning the gymnasium and its accessories, it has been deemed important to provide for:

- 1) required physical training, based on physical examination;
- 2) voluntary gymnasium work to meet a limited demand;
- 3) track athletics, baseball, and tennis;
- 4) swimming and water sports.

In the allotment of space proposed, little regard has been had to possible future growth. It has been assumed that there would be no great development of intercollegiate athletics, but an increasing interest in out-door exercise. Attention is called to important letters, submitted herewith from the Physical Directors of other institutions.

B The Gymnasium.

The gymnasium should be not less than 166 by 234 feet*, naturally conforming in its architectural lines to the general scheme.

The building, as planned, consists of four main divisions:

an Indoor Exercise Gymnasium, 120 by 198 feet and 26 feet high;

a Swimming Pool and accessories, 44 by 90 feet, with a glass roof feet high;

a Main Gymnasium, 120 by 150 feet, covering the greater part of the lower gymnasium, and 35 feet high;

numerous smaller rooms, as described below, occupying the remainder of the two gymnasium floors and two mezzanine floors.

First Floor: The large exercise floor is devoted mainly to voluntary athletics. The greater part of the floor is of cinders and clay in such proportions as to insure good footing for running, jumping, pole vaulting, etc. The cinder track is 15 feet wide and 440 - 12-laps - long, affording ample opportunity for indoor running in bad weather. This room should have as much window space as possible on two sides, with windows so adjusted that by simple manipulation the whole can be thrown wide open. The end opposite the swimming pool will also have

* The sketch plans published in the Technology Review (January, 1913) were prepared for the committee by Mr. A. W. Jackson, '96; those accompanying this report and referred to in the text have been drawn for the committee by Professor Taylor, and like those of the Walker Memorial are to be regarded as a preliminary study.

a skylight.

Swimming Pool: The necessity of providing this seems to the committee obvious. Everybody should be able to swim, but this is especially true of men in outdoor professions, whether on land or water. We believe it should be a requirement at the Institute, as it already is at several universities, that every student should learn to swim. The pool itself should have the standard dimensions 75 by 30 feet.

The depth of the water would vary from 9 feet at one end to 4-1/2 feet at the other end. Entrance to the pool should be from the center of its four sides, and enough floor space at its edges to allow of easy passing. At one end adequate space must be provided for a "run" before diving or fancy tumbling. All this construction is to be of tile and a gallery surrounding the entire tank should be some fourteen feet above the edge of the pool and have a seating capacity for several hundred.

The water will be filtered in on one long side and taken off on the opposite side by skimming weirs at the surface. It will be changed entirely every forty-eight hours, and the temperature kept at 76 degrees during the winter months. A sludge pit in the bottom will facilitate cleaning. The pool is to be sterilized by the addition of hypochlorite of calcium or soda in the proportion of ten pounds to a million gallons of water. Suitable showers (15) will be provided for, and the purity of the pool will be maintained not only by the foregoing devices and regulations, but by requiring that a shower bath be taken before entering the pool, and that no clothing whatever be worn in the pool. An instructor in swimming and an assistant

(25).

should always be in attendance as a precaution against accident. The building should be of the best construction, amply lighted, and kept scrupulously clean.

The remainder of the first floor will be devoted to: shower-bath and drying room (1100 sq.ft.); locker-room (2100 sq. ft., 500 lockers); toilets (300 sq.ft.); quarters for visiting teams (1000 sq.ft.) with lockers, baths and toilet; office for team manager (600 sq.ft.); coat-room, safe, etc. (700 sq.ft.); storage, etc. (2200 sq.ft.). These rooms will have a height of 10 to 12 feet.

The Lower Mezzanine Floor will contain:- a gallery overlooking the swimming pool; shower-baths, lockers and toilets, appropriately duplicating those on the floor below; a room for the home track team with showers, lockers, and toilet (1000 sq. ft.); director's office (1100 sq.ft.); a lecture room (1800 sq. ft.); and a committee room (1000 sq.ft.). These rooms will also be about 12 feet high.

The Main Gymnasium (120 by 150 and 35 feet high) will be devoted to required physical exercise or class work. It should contain the best possible equipment, including at least four sets of heavy floor apparatus, with horses, bucks, parallel bars, horizontal bars, vaulting bars, spring-boards, flying rings, traveling rings, climbing ropes, jumping stands, as well as chest weights, medicine balls, dumb-bells, wands, Indian clubs and mats.

The windows should be so planned that they will not only supply ample light, but admit of free circulation of air. These windows should be at least six feet above the floor in order to give sufficient wall space for apparatus.

They should be numerous enough to obviate any need of skylights, with their inevitable tendency to leakage and overheating. This room should be adapted for occasional use for large dinners - unless these are provided for in the Dining Hall - and for large dances. This would naturally imply a serving room, dressing rooms etc.

This floor will also contain:- for squash courts 18 by 32 feet; two hand-ball courts 24 by 60 feet; two wrestling rooms 27 by 28 feet; a room with baths for corrective gymnastics (1100 sq.ft.); and a store-room (700 sq.ft.). These rooms will be about 12 feet high, except the hand-ball courts, which must be 35.

The Upper Mezzanine Floor: This floor should contain a balcony seating 250 and overlooking the main gymnasium; two squash courts(18 by 32 feet); two boxing rooms (28 by 28 feet); a punching-bag room (24 by 28 feet); a fencing room (28 by 40 feet); and the upper part of the hand-ball courts.

D Gymnasium Director:

The director of the gymnasium should be a man of medical training and of Faculty rank. As such he might well act as Medical adviser, with daily office hours and also have teaching duties in the department of Biology and Public Health. The present provision for medical advice seems to the committee inadequate, and more so in the new location than in the present one. The director should have at his disposal suitable quarters and all necessary appliances for dealing with emergency cases of accident or illness on the campus.

E. Gymnasiums of Other Institutions.

The following statement (p. 28) gives comparative data for the proposed gymnasium and some of the best of recent college gymnasiums.

F. The Athletic Field.

The Athletic Field needs to be convenient of access from the outside lines of communication, and as already stated should be screened in order not to sacrifice gate receipts, and so located as not to interfere with convenient passage between buildings.

The following plan for an athletic field has been prepared for the committee by the Advisory Council on Athletics. The drawing corresponds with the location along Vassar Street previously recommended in this report. In case a different location should be assigned by the Corporation, the arrangement of the field would probably require some revision.

The main features of the proposed field are as follows:

a quarter-mile running track, inclosing a football field and provision for high jump, pole vault, hammer throw and discs;

a baseball diamond;

six courts for tennis and ten for hand ball;

spaces for running broad jump, shot put and quoits;

grand stand and fence.

The whole makes a rectangle approximately 445 by 1000 feet.

The grand stand should be 555 feet long by 50 feet deep.

COMPARATIVE DATA ON GYMNASIUM.

	Students	Date	Ground Area Sq.ft.	Main Floor Sq.ft.	Lockers	Track	Cost	Budget	Physical Training Required (years)
<u>M. I. T.</u>									
Present	1600			7200	200				1
Proposed*	2500		39000	18000 (120 x 150)	1100	12	\$300,000	\$12,000+	1+ (?)
<u>Harvard.</u>									
Present	3000	1879		7000	2500		111,000	13,000	
Proposed				9000	6000		\$1,000,000		
<u>Dartmouth</u>									
	1300	1911	50000	16000 (200 x 80)	800+	(6 10)	180,000	4,800	1+ (?)
<u>Bowdoin</u>									
	400	1912	11200	8200 (107 x 77)	500	14	100,000		All years
<u>Chicago</u>									
	2000**		70000	16000 (200 x 80)					
<u>Columbia</u>									
	1600**	1896	46000	22500 (169 x 134)				15,000	
<u>Pennsylvania</u>									
	3000**	1904	18600	9800 (144 x 68)	3400			22,500	All years
<u>Princeton</u>									
	1600	1903	39000	16800 (166 x 101)			300,000	21,000	1
<u>Syracuse</u>									
	1800**	1908	33000	21000 (210 x 100)	1650		325,000		

* Including swimming pool

** Estimated.

(29).

It should have 17 rows of seats, each 13-14 inches deep, with 18-19 inches foot-space, giving seating capacity of approximately 4000 (22 inches with per person). The floor for the front row of seats should be 6 feet from the ground.

At each end of the street frontage, there should be a ticket office with four windows, five feet apart. There should be entrances from the street beginning 50 feet from the northwest corner, at intervals of 120 feet, and corresponding steel stairways leading to the eighth or tenth row of seats. Passages 3 feet wide should ascend on each side of the stair openings to the upper rows of seats, and straight passages 4 feet wide should lead to lower rows.

In front of the grand stand should be a Press Box, 8 by 60 feet. In case of need, temporary stands could be erected on the opposite side of the track.

The running track should be 200 feet wide on the south, 25 feet on the north (including the 220 yard extension), with a radius of 118 feet for the ends. This makes each curve 365 feet, each straight section 295 feet, the entire circuit 1320 feet, equal to one-quarter mile. The 440-yard run will require one turn, the 880-yard, three when run from the 220-yard start. There should be a 4-foot picket fence on the north side of the 22-yard extension of track to keep out boys and men during the summer, as well as when the field is in use.

The discus and hammer throw could not be used at the same time with football.

No special reservation for "Soccer" football seems feasible at this time.

(30).

The running high jump and pole vault should have a space 40 by 145 feet with jumping boxes 16 feet deep at each end, and should allow of simultaneous work.

The pole vaulting and high jumping would not interfere with other field or track practice.

Five of the six tennis courts should be 60 by 110 feet, and one should be reserved, of tournament dimensions, viz., 60 by 120 feet. Opportunity is afforded for temporary stands on the North, East and South sides.

The golf court should be 50 by 80 feet, allowing at least four and probably six courts.

The handball courts should be 70 by 105 feet (for 10 courts), the concrete end of the grandstand forming the necessary wall on that side with back wall and side wall on East, 35 feet high.

The shot put space should be 70 by 90 feet; that for the running broad jump 70 by 205 feet, including a run of 120 feet, a 30-foot pit at each end, and 12-1/2 feet free at each end.

Ample provision for baseball is exceedingly important, as no outdoor exercise is more popular in the season. Two diamonds outside the running track should be provided, if possible, as shown in the accompanying drawing.

Inter-class, inter-course and championship games could be held at the northwest end of the oval, inside the running track.

The estimated cost of construction, including blind drainage for track, baseball field, tennis courts, football

field, shot put, broad jump and quoits, pole vault and high jump spaces, including grading, and loaming inside track and outside baseball diamond, is \$20,000, not including "direct drainage" (if such should be necessary).

The grandstand would probably cost \$20,000, the fence - if of iron with concrete base - \$4500.

For further details, the plan and the accompanying memorandum of the Advisory Council on Athletics should be consulted.

It is also recommended that tennis courts be laid out in the quadrangles of student houses. If this should not furnish a sufficient number, additional courts should also be laid out north of Vassar Street, with passages under the street.

6 The committee regards it as important that provision should be made for rowing, skating etc. In the words of President MacLaurin: "The site presents unrivaled opportunities for boating, and this sport must be developed in a manner that will suit the conditions that prevail at the Institute". We are not yet prepared to offer more specific recommendations, but expect to submit ~~except to submit~~ a supplementary recommendation in the near future.

FINANCIAL CONSIDERATIONS.

The committee has not considered it within its province to attempt a definite estimate of the initial cost or the maintenance charge of the various matters discussed in the report. On the other hand, it would seem somewhat futile to present these recommendations without some reference to the financial side.

On the basis of such data as we have studied from other institutions, it seems probable that the following may fairly serve as a first approximation:

First Cost.

Walker Memorial Building.....	\$225,000.
" " equipment and furniture.....	40,000.
Arcade	10,000.
Gymnasium and Swimming Pool.....	300,000.
" equipment	12,000.
Athletic Field, Grandstand, etc.	45,000.

In presenting a program involving the expenditure of more than half a million dollars to meet the social and physical needs of our students, we have based our expectations not merely on the Walker Memorial Fund already in hand, but on the appreciation of these needs expressed by President MacLaurin and the Alumni Fund Committee. In his circular letter of March 20, 1912, the President said: "The Walker Memorial has commended itself to the generosity of the alumni for years, and a considerable sum has been subscribed for its erection. Much more, however, is needed to make this building a worthy memorial of the great President and the great

humanist in whose honor it is to be built. It should comprise a complete equipment for social activities amongst our students, and it should contain, or be closely associated with a gymnasium that is the best that can be devised for our special needs. The Athletic Field on the new site should be laid out in a manner that will encourage the Advisory Council on Athletics (to whose sane athletic policy the Institute owes so much) to continue their efforts to promote athletics in all their manly forms, as a healthy exercise and not as an absorbing business."

In line with this, the Fund Committee circular of April 9, 1912, added: "It therefore remains for the alumni to provide for the equipment of the buildings, for laying out the grounds, for dormitories, for adequate facilities for athletic and for an enlarged Walker Memorial, including the gymnasium and a complete social center. Such a memorial will cost much more than the \$133,000 now on hand for this purpose."

Maintenance (Annual net Cost).

It is more difficult to estimate the annual budget, because so many of the factors involved cannot yet be foreseen. So far as we can draw any inferences from available data, it seems not unlikely that the Walker Memorial may require an income of about \$10,000 to \$15,000 from dues, and that the gymnasium and pool may need about \$15,000 per year.

In view of the high tuition fee our students pay, we believe they are fairly entitled to the privileges of the gymnasium and the athletic field, and should not be charged with their maintenance beyond moderate fees for lockers, tennis

tennis, etc. For the Walker Memorial, unless a considerable endowment fund is provided, it will be necessary to charge a small membership fee, and in our judgment this should take the usual form of an addition to each tuition bill, amounting to \$2. in each half year. Such a charge will have the important advantage of giving the students a sense of real ownership and responsibility, not otherwise attainable. They will have a higher appreciation of the privileges of the Walker Memorial if they bear this moderate fraction of their cost. To most students the small fee proposed will imply no sacrifice. Those who might not become members if membership were optional, are a class to whom such membership would have great value. In particular cases the fee, like the tuition, might be covered by scholarship grants.

Associate members of the Walker Memorial should also pay dues of \$10 or \$5, as previously stated. This might produce revenue as follows:

2000 students @ \$4.	\$8000.
500 resident associate members	
@ \$10.	5000.
including 200 instructing staff,	
200 non-resident associate members	
@ \$5	<u>1000</u>
	\$14000.

The financial business of the Memorial should be wholly on a cash or advance-payment basis by means of coupons. Additional revenues which can hardly be estimated at this time would be derived from billiards, bowling, and the bookstore, barber, etc., in the Arcade.

SUMMARY OF RECOMMENDATIONS.

Location.

1. The Walker Memorial should be convenient of access not only for students on the campus, but for those living outside, and for persons attending evening affairs.
2. As a memorial it should have a conspicuous site and an architecturally impressive exterior.
3. The Gymnasium should be convenient of access for students on the campus.
4. The Walker Memorial and the Gymnasium should be located with reference to permanent use; the Athletic Field for occupancy for not less than 25 years.
5. The Athletic Field should be so located as to admit of inclosure and to have on one side a 220-yard track without interfering with direct passage between buildings.
6. The location preferred for the Walker Memorial is on the Esplanade, near Massachusetts Avenue.
7. The Walker Memorial should be near the dining hall and the two should be connected by an Arcade.
8. The location preferred for the Gymnasium is the corner of Massachusetts Avenue and Vassar Street.
9. The Swimming Pool should be located on the south side of the Gymnasium.
10. The location preferred for the Athletic Field is along Vassar Street, eastward from the Gymnasium.
11. It is assumed that the space along Massachusetts Avenue between the Walker Memorial and the dining hall at the one end and the Gymnasium and Swimming Pool at the other would then be used for quadrangles of student houses.
12. The ground areas should be approximately as follows:

Walker Memorial	15-14000 sq.ft.
Gymnasium and Swimming Pool	39000 " "
Athletic Field, including tracks, Grandstand, etc.	450000 " "
13. There should be porticos, terraces and out-of-door seats.

Walker Memorial

14. The basement should include a grill room seating 125 (2000 sq.ft.), three smaller dining rooms - one open to ladies - seating 10 to 15 each, and arranged when thrown together to seat 50 (1800 sq.ft.); a check room, cigar stand and telephone booths (700 sq.ft.); an auxiliary kitchen, serving room, pantry, service lavatory (1500 sq. ft.); the Tech office (1000 sq.ft.); a small gymnasium for squash, etc. with shower baths and lockers (3000 sq.ft.); general lavatory (300 sq.ft.); ladies' retiring room (200 sq.ft.); a shooting gallery without windows (10' x 80'); six bowling alleys under the terrace (3100 sq.ft.). Total net floor space 13500'. The basement rooms should have not less than 10'-12' feet height.
15. The first floor should contain a large living room (3500 sq.ft.), with fire places, settles, etc., open in general effect; a convenient check room for day and evening use, connecting, if practicable, with that in the Arcade (300 sq.ft.); reception room 200 sq.ft.), office (300 sq.ft.); a library, reading room and writing room, with wall space for 10000 volumes (smoking not allowed) (3000 sq.ft.); Faculty and Alumni reading, writing and smoking rooms (300 sq.ft.). Total 10300 feet. This floor should be adapted as a whole for occasional use for evening receptions, etc.
16. Both basement and first floor should have entrances from the Arcade, as well as from the outside.
17. The second (mezzanine) floor should contain: an auditorium, seating 400, with a gallery, seating 100, with movable chairs to admit of its use for small dances, etc., ante-rooms, lavatories, etc., (3500 sq.ft.); a billiard and pool room, with eight tables; card room and game room (3500 sq. ft.); offices for the Walker Memorial Committee (300 sq.ft.), the House Committee and the Institute Committee (500 sq.ft.); for the Technology Christian Association (500 sq.ft.), and for the Cosmopolitan Club (500 sq.ft.). Total 8800 sq.ft. The auditorium should be about 20 ft. in height, the other rooms about 10-1/2 feet.
18. The third floor should be divided into offices for student activities, including Technique (1000 sq.ft.), musical clubs (1000 sq.ft.), Tech Show (1000 sq.ft.), additional rooms for study and committee meetings. A few sleeping rooms for guests of the Institute might also be provided. The height of rooms should be about 10 feet.
19. The building should be designed with reference to the possibility of future expansion.

Organization and Administration of Walker Memorial.

20. All male undergraduates should be active members, organized as a club with membership cards.
21. Associate membership should be open to members of the instructing staff and alumni. Other alumni should always be welcome.
22. Dues for active members should be \$4. per year; for associate members \$5. for those living within fifty miles, \$10 for those outside that limit. The student dues should be collected in the form of an addition of \$2. to each term bill.
23. The active members should elect a House Committee to make and administer rules, subject to the approval of the President of the Institute.
24. There should be a graduate Treasurer and a Superintendent.
25. The business and financial management should be exercised under the general direction of the Corporation, by a Walker Memorial Committee of 7, including 3 representatives of the alumni, 2 of the Faculty, and 2 of the undergraduates - for example, the chairman of the House Committee and the Institute Committee.
26. All rooms for student activities should be subject to annual reallocation by the Committee of Seven.
27. Persistent misuse of privileges should entail suspension, or forfeiture of membership.
28. Pains should be taken to make the place cheerful and attractive on Sundays. Religious services should be arranged (by the Technology Christian Association) for Sunday morning, and Concerts should be arranged for Sunday afternoons.
29. The purchase and care of supplies, and to some extent the cooking for the Walker Memorial, should be conducted in connection with the general dining hall.
30. Billiards, bowling, etc. should be made self-supporting (or better) if practicable.
31. Student organizations not representing the student body as a whole should pay a small rental if they desire the exclusive use of the auditorium.
32. Smoking should not be allowed in all rooms.
Faculty and Alumni.
33. A special reading room and smoking room should be assigned to Faculty and Alumni; they should share the grill room and special dining rooms with the students. The gymnasium should include special provision for instructing staff and alumni.

(38).

34. There should be an annual meeting held by the Alumni Association to welcome new students to membership in the Walker Memorial.

Arcade.

35. The Arcade should include two floors, or one above the basement, with lockers, student postoffice (400 sq.ft.), check room (200 sq.ft.), store (800 sq.ft.), news stand, soda fountain, confectionery and tobacco stand (500 sq.ft.), barber shop, etc (300 sq.ft.)

Gymnasium and Swimming Pool.

36. The building should be about 166 by 234 feet.
37. The lower floor should contain a large exercise room 120 by 198 feet, a swimming pool 30 by 75 feet and accessories.
38. Particular attention should be devoted to the lighting and ventilation of the lower gymnasium as well as of the upper part of the building.
39. The upper exercise room should be 120 by 150 feet with accessories*.
40. There should also be two mezzanine floors for small rooms*.
41. The upper exercise room should be arranged for occasional use for large dances and dinners, unless these are provided for elsewhere. This implies a partial kitchen equipment.
42. There should be a gallery around the pool with seats for several hundred.
43. An instructor in swimming, and an assistant, should be in constant attendance.
44. Careful attention should be given to cleanliness and sterilization of water, with frequent bacteriological examinations.

Physical Director.

45. There should be a gymnasium director of medical training and faculty rank.
46. As medical adviser he should give lectures on hygiene and should have daily office hours with suitable quarters and appliances for emergency cases.

* See plans and text of report for details.

Athletic Field

47. The field should be accessible, inclosed, and not so located as to interfere with passage between buildings.
48. It should be approximately 450 feet wide by 900 to 1000 long, with a 220-yard running track on one side, and on the other an extension to form the finish of a 440-yard track.
49. If located along Vassar Street, the grandstand should form a wall between the field and the street.
50. There should be provision for baseball, handball, football, broad and high jumping, shot put, pole vaulting, etc., as shown in blue print and text.
51. It is recommended that tennis courts be laid out in the quadrangles and other available open spaces.

Financial.

52. There should be a uniform tax on male students for the maintenance of the Walker Memorial, but not for other purposes covered by this report.
53. The business of the Walker Memorial should be conducted on a cash basis.
54. Cilley Fund. It is suggested that some person or committee be designated now to have charge of purchases of books, etc., from the income of this fund.

Appended Papers.

Letters from Physical Directors (Meylan, Columbia; Anderson, Yale; Storey, New York City College).

Letter from Mr. F. H. Briggs proposing erection of a gate to the new Athletic Field by the Class of '81.

Letter from Mr. H. D. Peck, 1913, in regard to special gift from Prom Committee.

Letter from Professor Porter in regard to sanitary arrangements in the Walker Memorial

Letters from alumni and others in regard to supplying equipment.

Miscellaneous Addenda.

1. Alumni Council Action: The Council has, on recommendation of the Alumni Walker Memorial Committee, an informal presentation of our report, voted to express its general approval of the recommendations.
2. Architectural Plans: Certain alumni have suggested to the committee that in recognition of the special relation of the alumni to the Walker Memorial, it would be wise and proper to arrange some form of architectural competition for this building, with any necessary provision for securing harmony with the general architectural plan. We prefer to transmit this interesting suggestion without a positive recommendation. A special suggestion from a member of the Alumni Walker Memorial Committee is appended, and another may be submitted later.
3. Walker Biography. A suggestion that an effort be made to secure the publication of a biography of President Walker in connection with the dedication of the Walker Memorial has been canvassed and presented to the Alumni Council, which has appointed a special committee to deal with it.
4. Coöperative Store: It has been repeatedly suggested that in connection with the new Institute a more complete cooperative system be introduced. It seems to us at least possible that this might be accomplished to advantage by cooperation with the successful Harvard Coöperative Store, and we hope the matter will receive due attention.

COMPARATIVE DATA ON GYMNASIUMS.

	Students	Date	Ground Area Sq.ft.	Main Floor Sq.ft.	Lockers	Track	Cost	Budget	Physical Training Required (years)
<u>M. I. T.</u>									
Present	1600			7200	200				1
Proposed*	2500		39000	18000 (120 x 150)	1100	12	\$300,000	\$12,000+	1+ (?)
<u>Harvard.</u>									
Present	3000	1879		7000	2500		111,000	13,000	
Proposed				9000	6000		\$1,000,000		
<u>Dartmouth</u>									
	1300	1911	50000	16000 (200 x 80)	800+	(6 10)	180,000	4,800	1+(?)
<u>Bowdoin</u>									
	400	1912	11200	8200 (107 x 77)	500	14	100,000		All years
<u>Chicago</u>									
	2000**		70000	16000 (200 x 80)					
<u>Columbia</u>									
	1600**	1896	46000	22600 (169 x 134)				15,000	
<u>Pennsylvania</u>									
	3000**	1904	18600	9800 (144 x 68)	3400			22,500	All years
<u>Princeton</u>									
	1600	1903	39000	16800 (166 x 101)			300,000	21,000	1
<u>Syracuse</u>									
	1800**	1908	33000	21000 (210 x 100)	1650		325,000		

* Including swimming pool

** Estimated.

Paper Appended to

Walker Memorial Report

Class of '81 Gate

ADVISORY COUNCIL ON ATHLETICS
M. I. T.

GENERAL TREASURER, FRANK H. BRIGGS
22 HIGH STREET

BOSTON, Feb. 10, 1913.

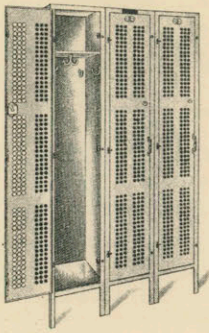
Committee on New Athletic Field:

The Class of 1881 will erect at the new Athletic Field, Cambridge, a suitable gate, similar to that now at Technology Field, Brookline, and would ask that a place be assigned same in making up the plan of the enclosure.

Yours truly,

F. H. Briggs
Asst. Secy
Class of 1881

Lockers for Gymnasium



DURAND STEEL LOCKER COMPANY

CHICAGO, 76 W. MONROE STREET.
NEW YORK, 132 NASSAU STREET.
FACTORY:
CHICAGO HEIGHTS, ILL.

CHICAGO March 14, 1913.

Mr. C.E.A. Winslow,
Curator of Public Health,
American Museum of National History,
New York, N.Y.

Dear Sir:-

Mr. Durand Churchill, M.I.T. '98, invented
the Durand Steel Locker, and organized this business.

We are the largest manufacturers of lockers
in the world, and have annual contracts with several of
the large industrial corporations. We have installed our
lockers in most of the large educational institutions in
this and other countries.

Mr. Churchill is now in California, recently
having returned from Australia, Tasmania and Hawaii, acting
on some important and confidential work as Consulting Engineer,
and has written me suggesting that I write to you, asking
that Durand Steel Lockers be considered in the equipment of
the Walker Memorial Gymnasium, Dormitories, Swimming Baths,
etc. at the Massachusetts Institute of Technology.

We have an Eastern Office at 132 Nassau Street,
New York City, and have several of our lockers in use in and
around the City of Boston.

Thanking you in advance for a line in reply,
we are

Yours very truly,

DURAND STEEL LOCKER COMPANY.

By.

General Manager.

WBB/OL

Physical Director Columbia

**Columbia University
in the City of New York**

UNIVERSITY GYMNASIUM

GEORGE L. MEYLAN, A. M., M. D.
MEDICAL DIRECTOR

April 28th, 1913.

Dr. H. W. Tyler,
491 Boylston St.,
Boston, Mass.

Dear Sir:-

I have examined with great interest the plans and specifications for the proposed Gymnasium and Department of Physical Education, at the Massachusetts Institute of Technology. First, I will answer your specific questions:

First: I believe that a gymnasium about the size and character described on the plans is necessary under the present educational and climatic conditions.

Second: I am quite sure that a gymnasium building less than 300' by 150' would be entirely inadequate for a student body of two or three thousand.

Third: Inasmuch as there is a strong tendency to build larger and better gymnasium buildings in all the colleges and that nearly all the colleges in the East are greatly cramped in their present gymnasium quarters I believe that your proposed plant would only afford the strictly necessary physical education facilities for twenty to twenty-five years.

The need for a gymnasium, indoor athletic space, handball courts, and swimming pool cannot grow any less during the next twenty-five years, so far as it is possible to predict at present. The need for exercise for college students and the climatic conditions which make outdoor exercise

Columbia University
in the City of New York

UNIVERSITY GYMNASIUM

GEORGE L. MEYLAN, A.M., M.D.
MEDICAL DIRECTOR

practically impossible in Boston during about four months of the college year will never change. There is also a strong tendency to place physical education in the curriculum of all colleges and universities. There are now over 80% of the colleges that require courses in physical education for graduation and the proportion is increasing every year.

I approve heartily of your scheme to provide a very extensive window area with a semi-automatic device for opening and closing the entire window space, for the problem of ventilation is undoubtedly the one which has given most difficulty. Outdoor exercise is undoubtedly increasing in popularity, but it will never be possible for college students living in Boston to depend on outdoor exercise during the months of December, January, February and March as well as the rainy days of other months.

There are two points in the plans which it seems to me should receive careful consideration:

First: The entrance is indicated at the end of the building opposite from the locker-room and no corridor is provided on either floor on the long side of the building. This would imply that students entering and leaving the building would have to walk across the gymnasium, thus interfering with the use of this room and tracking much dirt, dust and mud over the gymnasium floor. The same objection would hold, if the students should walk across the running track in the basement, with the additional difficulty that it is practically impossible to run on a track which is used as a

[4/28/13]

Columbia University in the City of New York

UNIVERSITY GYMNASIUM

GEORGE L. MEYLAN, A.M., M.D.
MEDICAL DIRECTOR

passage way. It seems to me that the vestibule, corridor, trophy room, etc. should be shifted to the other end of the gymnasium itself. This plan would overcome all the difficulties above mentioned, and furthermore would allow windows on three sides of the gymnasium and athletic room instead of two.

Second: The other point is the location and number of shower-baths. You may be planning to locate them in the space that I have indicated with an arrow, but if so it is not indicated on the plans. You would need at least 32 showers to accomodate 1600 students and about 48 showers for 3000 students. Inasmuch as students should be required to take a shower bath before entering the swimming pool, the showers should be located between the locker-room and the swimming pool with a single entrance from the shower room to the pool, thus making it easy for the attendant to enforce the above mentioned regulation.

I have indicated a few suggestions in pencil on the type-written specifications.

With the few changes that I have suggested, I believe that your ~~plan~~ plans for the Gymnasium Building and Department of Physical Education would give you as good or better an equipment as any found in the colleges of the East.

I should be pleased to make an appointment to meet with your committee in Boston any Tuesday, Thursday or Saturday during the first two weeks in May, or any day in the week during the last two weeks.

Very truly yours,

George L. Meylan

Physical Director N. Y.

The College of the City of New York

Department of Physical Instruction and Hygiene

St. Nicholas Terrace and 139th Street

THOMAS ANDREW STOREY, M. D.
PROFESSOR AND DIRECTOR

April 28th. 1913.

Dr. H. W. Tyler,
No. 491 Boylston St.,
Boston, Mass.

My dear Dr. Tyler:

Your letter of April 16th. reached me on April 24th. I am sorry that I have been unable to reply earlier.

I find it very difficult to offer you advice in response to the questions which your letter contains. It would not be so hard if I were better acquainted with the organization of your Department of Physical Training. A building 300 X 150' would be none too large for a Department with a complete organization along the various lines of applied personal hygiene. A building 250 X 100 feet ^{might} ~~would~~ have room to spare for a Department, the scope of which is limited to physical exercise.

I believe that a "City College Gymnasium" will likely become a "City College Department of Applied Personal Hygiene" within the next twenty-five years, and that consequently the equipment and needs of college gymnasiums as now conceived will, in many cases, not supply the accommodation which will then be wanted. You must not forget that I am likely to be a biased judge upon a question of this sort.

I will be very glad to be of any service to you that

[4/28/13]

THOMAS ANDREW STOREY, M. D.
PROFESSOR AND DIRECTOR

The College of the City of New York
Department of Physical Instruction and Hygiene
St. Nicholas Terrace and 139th Street

Dr. H. W. T. - 2 -

I can. It would be better, I think, for us to talk the matter over rather than to depend upon correspondence for an expression of opinion. I likely will be in Boston some time during May and if an appointment at that time will be of any use to you, I am at your service.

Cordially yours,

Thomas A. Storey

TAS/FWW.

Sanitary Arrangements for Walker Memorial.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

BOSTON, MASS.

April 14, 1913.

Dr. H. W. Tyler,
22 Rogers Building,
Mass. Inst. Tech.

Dear Dr. Tyler:

In reply to your note of March 31, enquiring for data as to space necessary for sanitary arrangements in a building such as the proposed Walker Memorial, I would state that in general the matter is left to the individual judgment of the architect. There is no law or public regulation which would control in the city of Boston, and presumably there is none in Cambridge.

For factories, the Boston Building Laws require at least one water-closet for every twenty persons employed in the building, the room to be provided with adequate ventilation to the outer air by windows or suitable light shaft.

The Schoolhouse Department of Boston, having to build numerous school-buildings, has developed standards in various matters pertaining to them, and those adopted for sanitariums are set forth on p. 63 of the accompanying Annual Report for Feby. 1911- Feby. 1912, and are further illustrated by the drawings in Appendix XI of the same report.

It will be noticed that their standard provides $1 \frac{7}{8}$ water-closets per school-room (42 pupils) where both sexes are to be accommodated, but Mr. O'Toole, the department Plumbing In-

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BOSTON, MASS.

Dr. H. W. Tyler.

2.

spector, told me that for male students of the age of our's he thought a provision of say one water-closet and two urinals per twenty-five students would be better. The space for a water-closet apartment is 2'6" along the wall by 4'0" at right angles thereto, and for a urinal stall about 2'9" along the wall. Mr. O'Toole said he would be glad to examine and comment upon the sanitary provisions which your committee might propose in its plans.

Wm. F. Gerhard, an excellent authority, in his "Sanitary Engineering of Buildings", in speaking of office buildings says, (p.295) "If, on the other hand, the building is to have one main toilet on the top floor containing a large group of fixtures, the total number of water-closets, urinals and bowls need not be as large as the aggregate number of fixtures where they are distributed on all floors".*****
"The space required in each toilet room for the plumbing fixtures is about as follows: for each water-closet compartment a space of 2 ft. 6 in to 3 ft wide and 4 ft to 5 ft deep; for each urinal stall a space 2 ft 3 in wide and 2 ft deep; for each wash-basin a space 2 ft 6 in wide and 2 ft deep. This does not include the space required by persons standing at the wash-basin to wash, nor space required for access to the urinals and water-closets."

With regard to school-houses Gerhard says (P.306),

[4/14/13]

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
BOSTON, MASS.

Dr. W. H. Tyler.

3.

"Regarding the number of water-closets to be provided, it is usual to allow one seat to about fifteen girls or twenty boys. The boys toilet room, should, in addition to the water-closets, contain a suitable number of urinal stalls."

Trusting that these notes may be in some degree helpful,
I remain

Very truly yours,

Swight Porter

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,
BOSTON, MASS.

OFFICE OF THE
INSTITUTE COMMITTEE

April 19th, 1913.

1

Professor H. W. Tyler,
Chairman, Walker Memorial Committee,
Massachusetts Institute of Technology.

My dear Professor:

Just one year ago today the Class of 1913 held its Junior Prom. Today I am sending you for the 1913 Junior Prom Committee a check for twenty-five dollars (\$25) which we place in your hands to be used in some way in the proposed Memorial for the Prom Committee room, quarters, desk, or whatever may be provided for that committee in the building.

We hope that this step on our part may be a precedent that future Prom Committees will follow up, so that when the time comes for the actual spending of the money there will be an amount sufficient to aid in the general expenditure, even if only in a very small degree.

Very respectfully,

1913 JUNIOR PROM COMMITTEE,

H. D. Peck, Chairman.

Copy to Mr. Baker.

April 22, 1913.

Dear Mr. Peck:

Thank you for your letter of April 19, and the accompanying check for \$25, which I am glad to turn over to our treasurer for future use, to the advantage of the future From Committee in the new Walker Memorial.

Very truly yours,

Mr. H. D. Peck,
Lavendar Street,
Millis, Mass.

Walker Memorial

25 AMES BUILDING,
BOSTON.

Special gift.

April 25. 1913

Dear Dr Tyler:

I have rec'd the
\$25. check which you
sent, and have deposited
in the W. M. A. A.

Yours truly

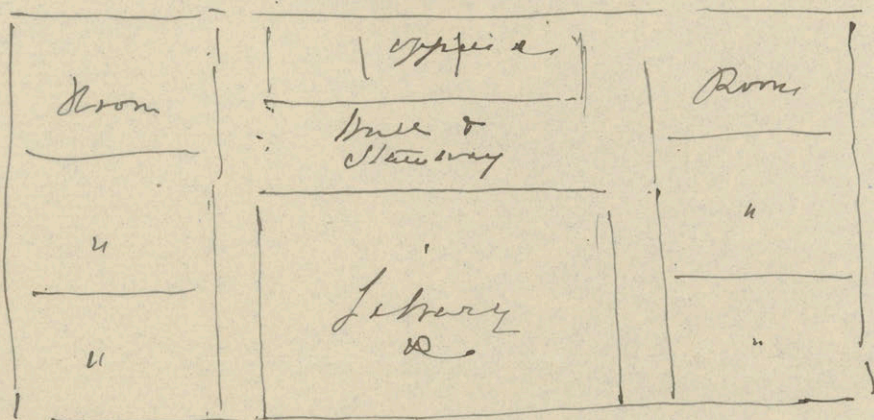
Charles M. Baker

[April 1913]

The general color would be
something like this:

Auditorium

Colonnade



Terrace

I know that this is a very
hazy indication, but I am
sure that it is worth considering
by our architect.

Yours truly
Charles M. Baker

"Don't forget to consider my idea of making the auditorium of the Walker Memorial a one-story building on the north of the main building. It could be used independently to much better advantage to all concerned than if it were as shown on the plan."

Copy from Mr. Baker, April, 13.

4

M. I. T.
ALUMNI ASSOCIATION.

Walker Memorial Gymnasium Committee.

DEAR SIR:—

We beg to invite your attention to the accompanying report of progress of the Walker Memorial Gymnasium subscription presented at the recent Annual Meeting of the Alumni Association.

Referring you to the report for a fuller statement in regard to our work, we desire to emphasize particularly the following points:—

We have already (April 1) subscriptions amounting to more than \$25,000 from 300 persons.

Institute men can and should increase this to \$100,000 in five years.

The plan of the Alumni Association has been approved on all sides as a fitting memorial of President Walker and a great benefit to the Institute.

In regard to location, encouraging progress has been made, although it is too early to make definite statements.

The support of the alumni is but a just recognition of their obligation to President Walker and their loyalty to the Institute.

The time to give is now, for the time of urgent need may be near at hand, the proposed lease of the Boston and Albany Railroad making the tenure of the present gymnasium even more precarious than before.

We count upon you to uphold the reputation of your class as well as of the alumni in making this undertaking a great success.

Very truly yours,

ROBERT H. RICHARDS, '68,
THOMAS HIBBARD, '75,
C. M. BAKER, '78, *Treasurer*,
H. W. TYLER, '84, *Chairman*,
EVERETT MORSS, '85,
W. B. THURBER, '89,
J. L. BATCHELDER, JR., '90,
A. F. BEMIS, '93,
BENJAMIN HURD, '96,

} Committee.

April, 1900.

M. I. T.
ALUMNI ASSOCIATION
WALKER MEMORIAL COMMITTEE.

REPORT FOR THE YEAR 1900.

BOSTON, December 29th, 1900.

Mr. President and Gentlemen:

The Walker Memorial Committee submits its report of progress for the second year of its work.

One year ago today, the Committee reported 238 subscriptions amounting to \$20,990.10. The accompanying table shows that we have now 533 subscriptions amounting to \$40,879.10.* Last year the average was between \$80 and \$90; this year it is nearly the same. Classified by amounts, we have received thirteen subscriptions of \$500 or over; thirty-three of from \$200 to \$500; eighty of from \$100 to \$200 and four hundred and seven of less than \$100. The table (see page 4) shows the number of subscribers in each class and the amount received. The classes of '68, '78, '85 and '93 still retain their honorable preëminence, joined now by '70 and '87.

Reviewing briefly the work of the year before speaking more definitely of the future, the first effort of the Committee was to energize the machinery of the several classes. The original appeal, in the spring of 1899, had been general. In the spring of 1900, a second general appeal was reënforced by a special printed letter signed by a Class Committee, although in the case of certain classes the best efforts of your committee to secure such coöperation proved fruitless. On June 1st, our total had reached \$30,000. During the summer, activity was necessarily suspended and the committee deemed it wisest to postpone further efforts until after the inauguration of the new President. An early conference with him gave us renewed hope and energy. With his powerful aid we count on the united support of the Corporation, Faculty, Alumni Association and of Local Societies elsewhere, not only in bringing our subscription to an early conclusion, but in making its concrete results of the highest and largest value. The action of the Corporation and Faculty will be communicated to you later in the evening (see page 3).

* At the date of printing (February 11) the amount of the fund is \$54,000.

We note in passing that in our attempt to utilize as many channels of usefulness as possible, we have called upon the student Fraternities for aid and have been much gratified at their cordial response. In the next list of subscriptions, a statement will be made, showing the amounts contributed by Fraternity men. Good work has also been done by Local Committees in other parts of the country and we hope for further results during the coming year.

The Committee desires at this time to emphasize the number of subscriptions rather than the amounts secured. We have undertaken to commemorate a man who has done much for the Institute and for many of us; a man who was always generously ready to serve others rather than himself; a man who held Institute students always in affectionate pride; a President to whom their physical and social interests were always near at heart. We have undertaken at the same time to accomplish a great permanent benefaction to our Alma Mater and all future students. We have undertaken to show thus that the Alumni of the Institute are not lacking in generous loyalty or in regard for the high considerations we have presented to them. We have asked no man to give more than he can afford, and have placed no limit of any sort on the size of the subscriptions. In view of all this, had we not the right to expect that every man would appreciate not the obligation merely, but the opportunity, of supporting us by his contribution, great or small?

However we may leave other needs of the Institute to be met by the liberality of a wealthy few, a memorial to President Walker should be made up of small subscriptions as well as large, and every Institute man should esteem it a privilege and a right to contribute according to his means.

We have now more than 2,200 living graduates and a still larger number of other former students. Of this army of almost 5,000, about one in ten have thus far given. Our remaining work we conceive to be the presentation to the other nine of the importance of prompt action by them.

It is nearly four years since President Walker's death; it is two years since we announced our intention of building a memorial. It would be neither good for the reputation of the Alumni nor just to President Walker's memory if our work were to drag along year after year. At the next meeting of this Association, your Committee should and must be able to report that the entire amount has been reached. To do this, we need your help in every possible way.

For nearly all your committee the undertaking has been new in kind and difficult of execution. We have been hampered by the difficulty of reaching men effectively in distant parts of the country and the world. We have been embarrassed by the fears of some that our undertaking would not succeed, or that if it did, the Walker Memorial would not be what they might choose. To those who have not hesitated to support us without full knowledge of the future, we are doubly grateful. They have enabled us to present our work to the Corporation of the Institute in such a manner that our future is no longer doubtful, that no man who is interested need wait longer to have his name on our subscription list.

Every man who has given should feel a special interest in influencing others to give, in order that his own contribution may, with a larger total, be most productive. A list of contributors will ultimately be issued and we ask each of you after making sure of his own place in it, to help with his friends who have not otherwise been reached.

In conclusion, we offer for your adoption the following votes:—

WALKER MEMORIAL COMMITTEE.

RESOLUTIONS PROPOSED FOR THE ANNUAL MEETING OF THE ALUMNI ASSOCIATION.

Voted, That the Executive Committee be requested to tender the thanks of the Association to the Corporation and Faculty of the Institute, for the provisional assignment of land and assurance of coöperation.

Voted, That the Walker Memorial Committee be authorized to represent the Alumni Association in conference with the Faculty as to the plan for the Walker Memorial Building and for its use, in pursuance of the vote of the Corporation.

Voted, That the Executive Committee be requested to authorize the transfer of funds collected by the Walker Memorial Committee to the Treasurer of the Institute, to be applied towards the erection of the Walker Memorial Gymnasium, whenever the plans of the Corporation and Faculty for the character and organization of the same shall have been accepted by the Walker Memorial Committee.

For the Committee,

H. W. TYLER, *Chairman.*

The Association voted unanimously to adopt the above resolutions.

VOTES OF THE CORPORATION.

DECEMBER 26, 1900.

Resolved, That the President is authorized to state to the Alumni that the Executive Committee will recommend that the Corporation set aside 10,000 square feet of the land on Trinity Place, corner of Stanhope Street, or, if

preferred, 48,000 feet on Garrison Street, for a site for the Walker Memorial building, on condition that \$100,000 is subscribed by July 1, 1901, for the erection of the building. The Executive Committee will also provide a suitable man to conduct a department of physical culture.

Resolved, That the Faculty of the Institute be requested to confer with representatives of the Alumni and to submit to the Executive Committee a plan for the Walker Memorial building and for its use.

WALKER MEMORIAL SUBSCRIPTION.

Class.	No. of Graduates.	No. of Contributors.	Amount of Subscriptions, Dec. 29, 1900.
1868	14	7	\$2,475 00
1869	5	1	25 00
1870	10	7	2,360 00
1871	17	2	70 00
1872	12	2	350 00
1873	26	6	450 00
1874	18	9	205 00
1875	27	10	535 00
1876	43	2	250 00
1877	32	12	805 00
1878	19	6	2,750 00
1879	23	9	1,375 00
1880	8	2	60 00
1881	28	5	230 00
1882	24	6	490 00
1883	19	9	680 00
1884	36	12	1,200 00
1885	27	21	3,130.00
1886	59	17	1,000 00
1887	58	27	3,260.00
1888	77	19	1,825 00
1889	75	23	2,010 00
1890	102	25	1,420 00
1891	103	21	1,175 00
1892	133	23	1,010 00
1893	129	69	3,740.60
1894	138	35	1,490 50
1895	144	23	1,000 00
1896	188	13	495 00
1897	179	36	950 00
1898	199	37	1,158 00
1899	172	31	1,455 00
1900	178	2	200 00
Walker Club,		—	600 00
Civil Engineering Society,		—	100 00
Miscellaneous,		7	550 00
Total,		536	
Counted twice,		3	
		533	\$40,879.10

6

M. I. T. ALUMNI ASSOCIATION
WALKER MEMORIAL COMMITTEE

FROM

ADDRESS BY PRESIDENT PRITCHETT

At Annual Dinner of the Association, Dec. 29, 1900.

DEPARTMENT OF PHYSICAL CULTURE.

I desire, however, to devote the remainder of my time to a statement of a new department which the Institute is about to undertake. The question "What constitutes an education?" is one that has been answered in a variety of ways in the past three thousand years. There was a time when the training of the body alone constituted education; later, in the monastic institutions, the problem of educating men from the standpoint of character alone was tried. At the present day modern education limits itself almost wholly to the training of the intellect. Nevertheless it is universally admitted that the aim in education is to develop not only a sound mind, but a sound mind in a sound body, and in addition to give to the educated man, vigorous in intellect and in body, the potentiality of a character which shall give direction to his energy of body and of mind.

In most American colleges and universities little attention has been paid to the general problem of physical culture; either there has been no attention to athletics and to exercise, or else the effort has been to develop to an undue extent certain games. The time has now come when the governing body of the Institute feels that it must deal with the physical education of its students as well as with the training of their minds. For a long time we have realized that there should be some systematic instruction for students as to the care of their health and of their bodies, but the way has not heretofore seemed clear for dealing with this problem. The purchase of an additional tract of land adjoining the engineering buildings has now made it possible for the Corporation not only to join hands with the Alumni in the establishing of the Walker Memorial Building, but also to provide a means by which that building shall be made effective and valuable to the student life. The Corporation has voted to establish

a department of physical culture which shall have for its object, not the development of athletics in the acute form, but the instruction of the entire student body in the care of health; which shall inform them as to proper rules of exercise; which shall make a physical inspection of each student who enters, and shall prescribe for him in the light of such inspection the exercise suitable to his need. At the head of this department shall be a man able to advise students, not only concerning their games and sports, but also concerning their diet and exercise and the general care of their bodies. In other words, this department will do for the physical side of students what the other departments do for the intellectual side. No greater need exists in the Institute today than this. As Herbert Spencer says—“since vigorous health and its accompanying high spirits are larger elements of happiness than any other things whatever, the teaching how to maintain them is a teaching that yields in moment to no other whatever.” In this effort the Corporation has in mind the rational solution of the problem of the conservation of health along lines consistent with the highest scholarship and the highest efficiency.

Of this department the Walker Memorial Building, which you have planned, is to be the center. It is to be, not a gymnasium in the narrow sense, but a building which shall minister to the social life of the students as well. Heretofore in your efforts to raise money for this building you have been working somewhat in the dark, without knowing definitely just what the building would be used for, or where it would be placed. The action of the Corporation this week has now made this question a perfectly definite one. Not only has it voted to establish a department of physical culture, but it has voted a site for the Walker Memorial Building as well. Two sites are offered by the Corporation, one adjoining the Pierce Building, the other a larger lot on Garrison Street. It will be seen that this action of the Corporation not only gives definiteness and purpose to the effort which you have been making, but also assures the success of that effort, once the Walker Memorial Building has been obtained. The contribution of the land will amount to not less than \$60,000, while fully \$150,000 will be required as an endowment for such a department. The Corporation has therefore contributed more than \$200,000 to make the memorial which you are preparing for General Walker of the greatest possible value to the student body.

All this action is predicated on the condition that the \$100,000 to build the Walker Memorial Building shall be subscribed before July 1, 1901. With all uncertainty removed, with a definite end in view, with an object like this, of such moment, to be accomplished by the success of your subscriptions to this undertaking, there is just one thing to which the Alumni and former students should bend their efforts at this moment, and that is to the completion of this subscription of \$100,000. More than forty thousand dollars of it has already been subscribed by about one-tenth of your number. The \$60,000 yet remaining ought to be subscribed at once. In this matter I ask the aid of every man who loves the Institute of Technology and who has ever studied in its halls.

The circumstances of this effort are so unusual that, notwithstanding my short service with you, I feel that I may appeal to each man who has been a student here in this matter in a personal and direct manner. Those of you who value the training you received here, who look to the Institute in the future as a source of improvement and help in the scientific world, cannot fail to recognize these facts. This movement was begun two years ago as a mark of the respect due to a great man. This man gave his life to the Institute of Technology, and for fifteen years he poured into it a stream of enthusiasm, of energy, and of genuine sympathy with student life. No one can look at the photograph of this man taken a few months before his death without realizing that it was the face of a man who carried a burden and who was weary under the load. It was a gracious and a kindly acknowledgment of the debt you owed to him, when the plan for a Memorial Building was put forward, and in raising \$40,000 toward that plan in the absence of definite knowledge where the building should go and what purpose it should serve, you have done well; but it will be small tribute to his memory and small recognition of your faith and your hope in the Institute, if, with a definite plan before you, this enterprise should lag in its fulfillment. There never was a time, nor probably will there ever be a time, when the cause of the Institute will appeal so directly to each one of you, and when it will be so easy with united effort to accomplish so much. Let us, as one man, stand shoulder to shoulder in this matter, and bring it to an issue so promptly and so successfully that it may show, not only our devotion to General Walker and to the Institute, but also our ability

to stand together in a common cause and to accomplish a common purpose.

It is not only for the memory of General Walker, not only for the sake of the Institute, not only for the great good which is to be accomplished for generations of students, that I feel that I can address an individual appeal to you, but it is for your own sake as well. Each one of you has received from the Institute of Technology and the influences that cluster about it, far more than he has ever returned to it. You will find that to make this cause your own, to help in this common enterprise according to your ability, is to bring back to yourself an enlarged interest in the Institute itself, a better sense of our common obligations and of our common duties, and, best of all, that satisfaction of spirit which comes from doing one's part in a great work. Therefore, let me urge you to do your individual part in this matter at once, and promptly, as men. If you have large means, help out of your wealth; if you have small means, help out of your competency; if you have no means at all, then help out of your poverty. There are pledges of twenty-five dollars among the subscriptions already made which are greater than some other gifts of one thousand dollars; and there are pledges of one thousand dollars among those already made which mean more than gifts of fifty thousand would mean from some. In any event, help, for your own sake.

After all, the highest tribute to General Walker would be, not that a Memorial Building had been erected, for such a building might be erected by one who never saw him and who never knew him; but it would be a monument beyond compare that such a building had been erected by the efforts of every man who had ever studied in the Institute of Technology. What is wanted is, not so much the money of any man, but the individual service of the more than 4,000 graduates and students who have gone out from these halls, and with this coöperation you will erect not only a splendid monument to a splendid man, but you will find a source of inspiration of your own, compared to which money has no value.

For no truer word was ever spoken or ever written than that of Lowell, —

“ Not what we give, but what we share,
For the gift without the giver is bare;
Who gives himself with his alms feeds three,
Himself, his hungering neighbor, and me.”

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M. I. T.
Alumni Association
Walker Memorial Committee

BOSTON, January 10, 1901.

DEAR SIR:

We communicate with great satisfaction the action taken by the Corporation of the Institute, and communicated by President Pritchett to the Alumni Association at its recent annual meeting.

We invite your attention to the following inclosures herewith:

Address by President Pritchett.

Plan showing the location of the Walker Memorial.

Revised table of subscriptions.

Subscription blank with record of votes.

Stamped return envelope.

Nearly \$50,000 has already been subscribed by more than 500 subscribers in two years, and to the support of these men we owe the present assurance of the Corporation.

On the final list of subscriptions every man's name should stand as on a roll of honor.

Each can give something, for all together the remaining \$50,000 is but little.

Will you not join **now** in this united effort, for the benefit of the Institute, for the memory of President Walker?

An early reply is requested.

Very truly yours,

R. H. RICHARDS, '68.	EVERETT MORSS, '85.
THOMAS HIBBARD, '75.	W. B. THURBER, '89.
C. M. BAKER, '78.	J. L. BATCHELDER, JR., '90.
H. W. TYLER, '84.	A. F. BEMIS, '93.
C.-E. A. WINSLOW, '98.	

Walker Memorial Committee.

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M. I. T.
ALUMNI ASSOCIATION
WALKER MEMORIAL COMMITTEE

[NOTE TO PERSONS WHO HAVE CONTRIBUTED.]

BOSTON, January 10, 1901.

DEAR SIR :

We send you herewith the following material in regard to the present condition of our work :

President Pritchett's address at the Alumni Dinner.

A revised table of subscriptions.

A plan showing the site assigned by the Corporation to the Walker Memorial Gymnasium.

A record of the votes of the Corporation and Alumni Association.

We extend to all who have thus far contributed toward making the work a success our most cordial congratulations upon the present situation and outlook. Much more remains to be done, and it is our hope that you will continue to assist us by making additional subscriptions, if able, and by securing as much interest as possible on the part of any others who have not yet contributed.

We take this occasion to invite suggestions from you as to the character and organization of the Walker Memorial Gymnasium. All such suggestions will be carefully considered and transmitted to the special committee of the Faculty.

Very truly yours,

R. H. RICHARDS, '68. EVERETT MORSS, '85.
THOMAS HIBBARD, '75. W. B. THURBER, '89.
C. M. BAKER, '78. J. L. BATCHELDER, JR., '90.
H. W. TYLER, '84. A. F. BEMIS, '93.
C.-E. A. WINSLOW, '98.

Walker Memorial Committee.

1901 (2)

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Walker Memorial Committee.

SUBSCRIPTION BLANK.

(Date).....

Secretary Walker Memorial Committee,

Dear Sir:

I hereby signify my desire and intention to subscribe to the Walker Memorial Fund the sum of \$....., payable about as follows:

Inclosed herewith,	\$.....
.....1902	\$.....
.....1903	\$.....
.....1904	\$.....

Please notify me, on the dates mentioned above, that my remittance is desired.

Yours truly,

(Signed).....

Address.....

Please make checks payable to C. M. BAKER, Treasurer.

For information in regard to the above subscription, please see statements herewith.

On account of the urgency of the Institute's needs the Committee desires that subscriptions be made *in full at the present time*. Realizing, however, that many Institute men, especially of the more recent classes, may find immediate subscription unduly burdensome, the Committee offers the option of annual subscriptions extending over a term of years.

(OVER.)

Votes of the Alumni Association.

DECEMBER 30, 1898.

Voted, "That the Executive Committee of the Alumni Association appoint a Walker Memorial Committee of nine members, which shall undertake by a subscription, the collection of a Walker Memorial Gymnasium Fund, to be applied by future agreement with the Corporation of the Massachusetts Institute of Technology toward the cost of erecting and equipping a gymnasium as soon as may, in the judgment of the Corporation, be practicable."

DECEMBER 29, 1899.

Voted, That the Walker Memorial Gymnasium Committee be authorized to confer with the Corporation of the Institute, in behalf of the Association, in regard to the purchase of suitable land for the gymnasium.

Voted, That it is the sense of the Association that the Walker Memorial Gymnasium should include, if possible, provision for other social objects, with a view to the promotion among the students generally, of a closer attachment for each other and for the Institute.

Votes of the Corporation.

DECEMBER 26, 1900.

Resolved, That the President is authorized to state to the Alumni that the Executive Committee will recommend that the Corporation set aside 10,000 square feet of the land on Trinity Place, corner of Stanhope Street, or, if preferred, 48,000 feet on Garrison Street, for a site for the Walker Memorial building, on condition that \$100,000 is subscribed by July 1, 1901, for the erection of the building. The Executive Committee will also provide a suitable man to conduct a department of physical culture.

Resolved, That the Faculty of the Institute be requested to confer with representatives of the Alumni and to submit to the Executive Committee a plan for the Walker Memorial building and for its use.

Votes of the Alumni Association.

DECEMBER 29, 1900.

Voted, That the Executive Committee be requested to tender the thanks of the Association to the Corporation and Faculty of the Institute, for the provisional assignment of land and assurance of co-operation.

Voted, That the Walker Memorial Committee be authorized to represent the Alumni Association in conference with the Faculty as to the plan for the Walker Memorial Building and for its use, in pursuance of the vote of the Corporation.

Voted, That the Executive Committee be requested to authorize the transfer of funds collected by the Walker Memorial Committee to the Treasurer of the Institute, to be applied towards the erection of the Walker Memorial Gymnasium, whenever the plans of the Corporation and Faculty for the character and organization of the same shall have been accepted by the Walker Memorial Committee.

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BOSTON, MASS., November 20, 1901.

Dear Sir:—

The committee of the Corporation of the Massachusetts Institute of Technology whose names are signed below beg to call your attention to the urgent need of completing the subscription to the Walker Memorial Building, which is planned to serve the threefold purpose of a social center for the student life, a place for physical instruction, and a gymnasium.

Most men interested in a thoughtful way in education realize that the question of physical instruction in our colleges is one not yet successfully dealt with. It is the purpose to make the Walker Memorial Building the center of a rational system of physical instruction which shall help students to a knowledge of how to care for themselves, and which will promote the exercise of the individual. Those who knew and loved General Walker will recognize in such a building and in such instruction the best monument to his memory.

The building is to serve, however, a still more important purpose, namely, that of a social center for student life, and a place where students may come in contact with each other and with the Alumni and members of the instructing staff. No other agency which can be set in motion will contribute so much toward the cultivation of students as men.

Toward the erection of this building the Alumni have subscribed \$100,000, an evidence of their interest and devotion, which in so young an institution is remarkable. The class of "1900" subscribed \$5,000 of this amount on its day of graduation.

In planning the building it is necessary to look somewhat to the future and to the needs of the constantly growing body of students. There are 230 more students in the Institute than there were two years ago. A building which will adequately serve the large and growing number of students will require an additional \$100,000 for its erection and equipment. It is most desirable that this effort of the Alumni be met half-way by the friends of the Institute, and that the response to this action be not long delayed. No other help could be offered to the Institute at this time which would contribute to the needs of the student life in so large measure, or which would be so thoroughly appreciated by the Alumni. While the reasons for this gift rise above utilitarian considerations, it is worth while remembering that the majority of the Alumni of the Institute have gone into the service of the industries of Massachusetts, and that they have constituted no small factor in the industrial supremacy of the Commonwealth.

The undersigned, who were appointed a special committee of the Corporation on this matter, earnestly hope that the amount needed (to be paid by July 1, 1902) may be subscribed promptly. Your assistance toward this end will be most heartily appreciated.

THOMAS L. LIVERMORE,
NATHANIEL THAYER,
HENRY S. PRITCHETT, } *Committee.*

M. I. T.
ALUMNI ASSOCIATION

WALKER MEMORIAL COMMITTEE

THIRD ANNUAL REPORT

Presented December 27, 1901.

Mr. President, Gentlemen of the Alumni Association :

Your Committee presents its third annual report with the greatest possible satisfaction. One year ago we reported 553 subscriptions amounting to \$40,879.10. We reported, also, the assurance by the Corporation of land and maintenance provided our subscription should be completed by July 1st. We all hoped for success. Not one of us was sanguine that it could be achieved by that time. Inspired and aided by President Pritchett's coöperation wherever and whenever inspiration and aid were most needful, we redoubled our efforts through class associations, local organizations and individual Institute men in less accessible districts. Nothing is so effective in securing subscriptions as good example. The good example set by the men who had contributed began to bear good fruit. The visits of President Pritchett to local societies in other parts of the country, and in particular the great banquet of the Northwestern Society, were especially productive.

Late in May we had brought our fund up to nearly \$90,000, and we determined, if possible, that the total should be reached not merely by July 1st, but by graduation day. A heavy broadside of telegrams and urgent messages brought us on the morning of June 4th only to \$93,000, and we ceased to hope for immediate success. We had not reckoned on the Class of 1901, however, which had postponed its share of the undergraduate effort. The Class of 1901 held its final meeting at 11 o'clock, and with splendid enthusiasm subscribed at once more than \$5,000. The end was now too near to be missed, and a few effective messages made it possible for the President to announce the completion of the subscription at the graduation exercises.

Since that time your Committee has rested from its labors. On the present situation, we are able to report as follows :

The Alumni subscription to date amounts to \$101,191.56, from 1,809 persons. Of this amount, approximately, \$50,000 has been paid in, and \$45,000 transferred to the Treasurer of the Institute, in accordance with your instructions of last year.

By agreement with your Committee a special committee of the Corporation has been appointed to solicit subscriptions toward a second hundred thousand dollars from outside sources. The President and Corporation recognize that the erection and equipment of the memorial building ought to involve an outlay of not less than \$200,000, and the \$100,000 which we have secured is the most effective argument for contributions toward the second. Already \$25,000 has been pledged on this supplementary subscription.

The provisional plans presented last year have been further studied by the department of architecture with good results, which we hope to communicate to our contributors in due season. It is our hope that further progress of the subscription and the completion of the architectural plans will make it possible to lay the foundations in the spring and to complete the memorial for use within the year.

Your Committee would be glad to consider its duties of solicitation at an end with the completion of the \$100,000 originally sought. On the other hand, the Corporation is involved in such very large and urgent expenses that our further aid is earnestly desired by President Pritchett. Moreover, we have recognized from the outset that \$100,000 would be inadequate, and have looked forward to the necessity of supplementing the Alumni subscription by aid from other persons—aid which we deemed specially appropriate in view of the generosity with which President Walker gave himself to innumerable forms of public and friendly service, and the fact that ours is the only memorial in which general participation has been possible. We are asked, therefore, by the President and Corporation, to assist in bringing the character and needs of the Walker Memorial to the knowledge of persons likely to be able and willing to contribute to it on the basis of personal regard for President Walker or interest in student welfare. Within these limits we hope for the coöperation of Institute men generally, asking them either to present the matter directly on the basis of personal acquaintance or to communicate names to us for correspondence. In the second place we venture to hope that some of the many former students who have not yet responded may be glad to help while there is yet time. We therefore offer the following motion:

That the Walker Memorial Committee be authorized to take such steps as it may deem proper to secure subscriptions from persons who may be specially interested in the proposed memorial to President Walker, and to receive any further subscriptions from Institute men who have not already contributed.

The report was accepted and the recommendation adopted.

WALKER MEMORIAL SUBSCRIPTION.

Corrected to December 27, 1901.

Class.	No. of Graduates.	No. of Contributors.	Amount of Subscriptions.
'68	14	8	\$2,725.00
'69	5	7	850.00
'70	10	12	2,660.00
'71	17	15	1,670.00
'72	12	8	580.00
'73	26	16	1,780.00
'74	18	26	771.15
'75	28	19	860.00
'76	42	18	1,725.00
'77	32	29	1,760.00
'78	19	16	3,330.00
'79	23	21	2,082.50
'80	8	8	1,210.00
'81	28	20	960.00
'82	24	20	1,222.50
'83	19	14	1,482.50
'84	36	33	3,075.00
'85	28	36	6,025.00
'86	59	37	1,876.00
'87	58	86	6,838.00
'88	77	53	4,315.20
'89	75	59	4,480.00
'90	103	56	3,745.00
'91	103	64	2,936.75
'92	133	60	2,625.10
'93	129	115	6,508.60
'94	138	81	3,685.00
'95	144	57	2,318.00
'96	189	97	3,415.00
'97	179	80	2,615.10
'98	200	115	3,999.91
'99	173	93	3,459.50
1900	183	99	2,945.00
'01	199	143	5,155.00
'02	—	2	105.00
'03	—	103	253.25
'04	—	56	172.00
Instructing Staff (not graduates)		22	1,625.00
Walker Club		—	600.00
Civil Engineering Society		—	100.00
Miscellaneous		11	2,650.50
Total,		1,815	
Counted twice,		6	
		1,809	\$101,191.56

Subscriptions made by members of Fraternities. (Included also under classes.)

	No. of Contributors.	Amount of Subscriptions.
Chi Phi,	23	\$1,019.00
Delta Kappa Epsilon,	39	1,680.00
Delta Psi,	35	2,155.00
Delta Tau Delta,	3	400.00
Delta Upsilon,	50	1,694.00
Phi Beta Epsilon,	38	1,717.50
Phi Gamma Delta,	9	346.00
Sigma Alpha Epsilon,	14	515.00
Theta Xi,	42	5,150.60

TREASURER'S REPORT.

Balance, December 12, 1900,	\$15,564.01
Subscriptions, 1901,	34,250.68
Alumni Association Appropriation,	300.00
Interest,	324.10

1901.

May 16, George Wigglesworth, Treasurer,	\$30,000.00	
Dec. 12, " " " "	15,000.00	
Bills paid,	1,009.81	
Exchange on checks,	23.72	
Balance,	4,405.26	
	<u>\$50,438.79</u>	<u>\$50,438.79</u>

1901.

December 23, Balance, \$4,405.26

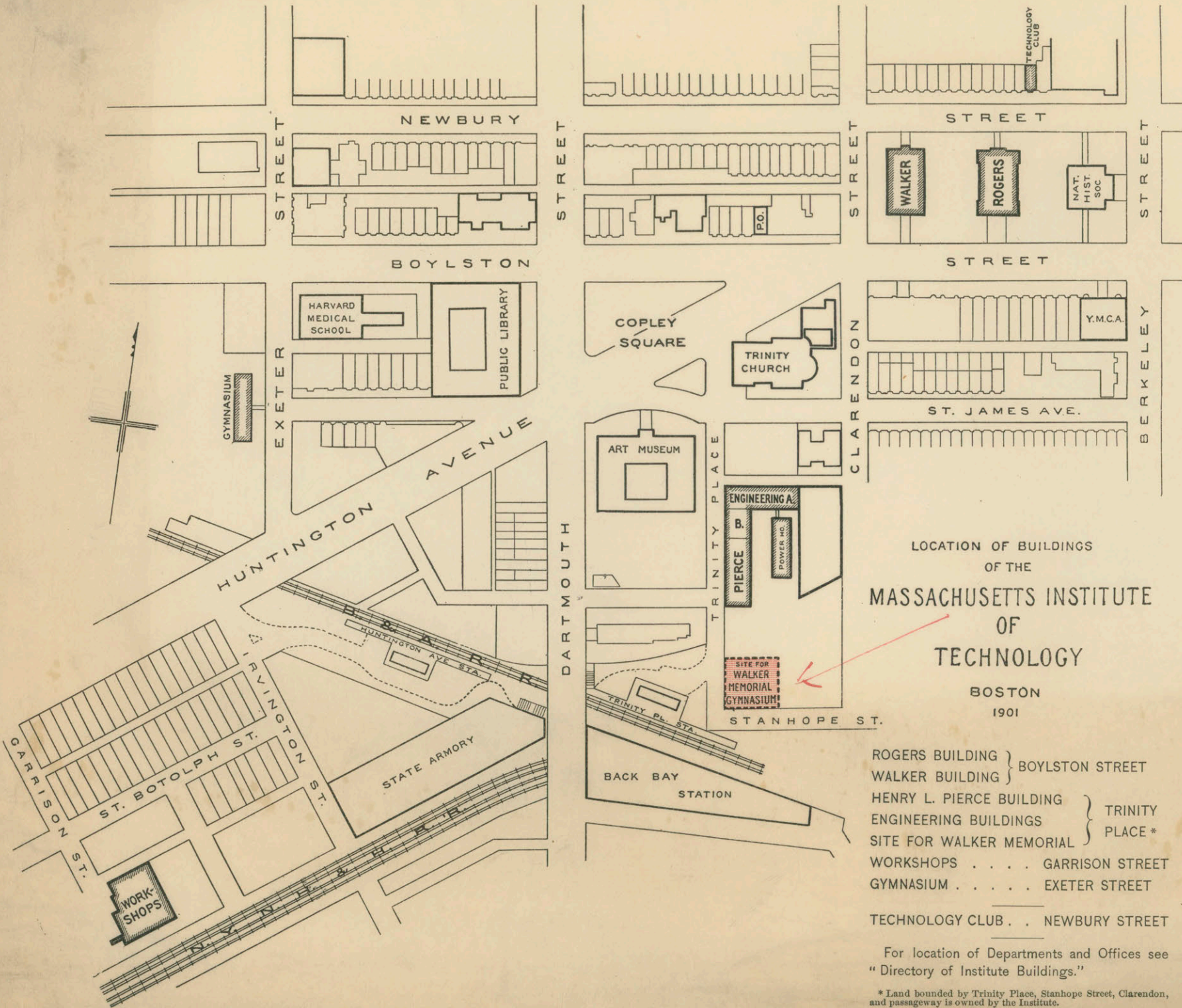
C. M. BAKER, *Treasurer.*

Report accepted.

December 27, 1901.

H. W. TYLER, '84, Chairman.	C. M. BAKER, '78, Treasurer.
	C.-E. A. WINSLOW, '98, Secretary.
R. H. RICHARDS, '68.	W. B. THURBER, '89.
THOMAS HIBBARD, '75.	J. L. BATCHELDER, JR., '90.
EVERETT MORSS, '85.	A. F. BEMIS, '93.

Walker Memorial Committee.



LOCATION OF BUILDINGS
OF THE
**MASSACHUSETTS INSTITUTE
OF
TECHNOLOGY**
BOSTON
1901

- ROGERS BUILDING } BOYLSTON STREET
- WALKER BUILDING } BOYLSTON STREET
- HENRY L. PIERCE BUILDING } TRINITY PLACE *
- ENGINEERING BUILDINGS } TRINITY PLACE *
- SITE FOR WALKER MEMORIAL } TRINITY PLACE *
- WORKSHOPS GARRISON STREET
- GYMNASIUM EXETER STREET
- TECHNOLOGY CLUB NEWBURY STREET

For location of Departments and Offices see
"Directory of Institute Buildings."

* Land bounded by Trinity Place, Stanhope Street, Clarendon,
and passageway is owned by the Institute.

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Dear Dr. Tyler:

I must thank you for the valuable report of the Walker Memorial Committee - a report that I shall take much pleasure in presenting to the Executive Committee. If, without inconvenience, you can furnish me with a single carbon duplicate, I shall be glad to have this. Most of the members of the Committee, however, will wish to see the report that contains photographs and plans. I take this opportunity of expressing to your Committee my very high appreciation of the value of its labors. The work involved in preparing such a report must have been enormous, and I hope that your Committee will feel rewarded by the final result. I shall, of course, be glad to take advantage of your generous offer to cooperate with the Executive Committee in any re-adjustments that may seem necessary later.

Yours sincerely,

May 20, 1913.

Dr. H. W. Tyler.