# THE AMERICAN ARCHITECT

VOL. XCVI.

WEDNESDAY, JULY 21, 1909

No. 1752



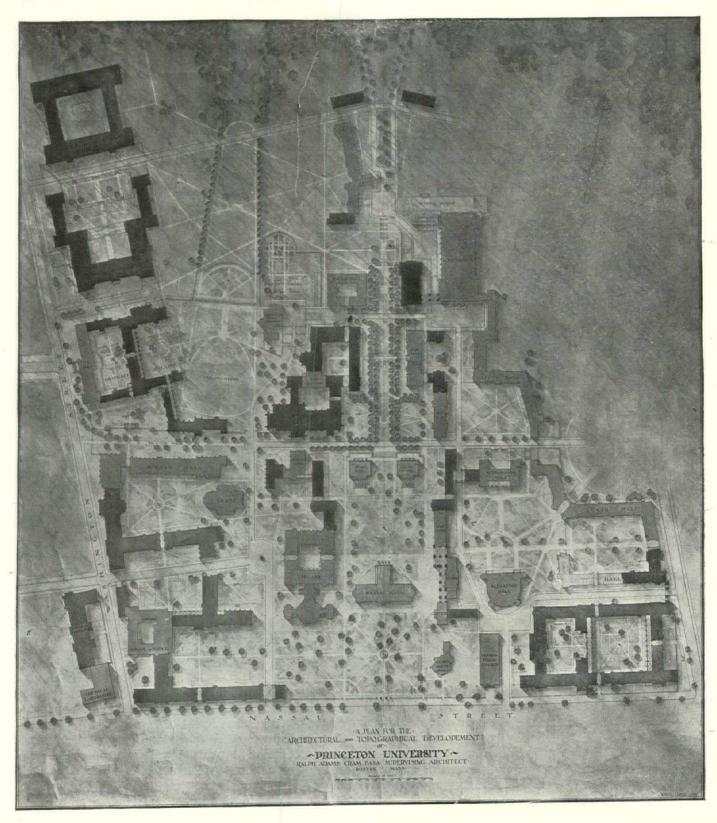
VIEW DOWN THE PROPOSED NEW MAIN AXIS OF THE CAMPUS

PRINCETON UNIVERSITY

## PRINCETON ARCHITECTURE

BY RALPH ADAMS CRAM, F.A.I.A., SUPERVISING ARCHITECT

HE material development of Princeton during the last twenty years has been only less fundamental and significant than the scholastic and educational evolution with which it steadily has kept pace. On the one hand has been the making of a small college into a great university, on the other the creation of an architectural expression that only should not show outwardly the new and very exalted quality of the institution itself, but also should become the great cultural influence good art must always be. In this, in a way, Princeton stands alone. Columbia, California, Stanford, Washington (St. Louis), have all started afresh, on virgin soil, and in varying degrees, and in still more varying fashions have endeavored to create a dignified scholastic expression, unhampered by precedent, uncontrolled by existing structures, generally, to say the least, somewhat unaccommodating as to the attainment of any effect of unity and consistency. Princeton, like Harvard, Yale, Dartmouth, Williams, Cornell, confronted a harder problem, and, first of all the institutions in this class, has set herself definitely to the task of assimilating the heterogeneous repast of varied types of æsthetic food she had wolfed down during her formative period, with scant attention to gustatorial harmonics or the possibilities of a normal digestive system. It is curious that Princeton should thus far be the only university, so handicapped by the defiant individualism of a lighthearted past, to realize that architecture and æsthetic organization are not matters of predilection, but are fundamental necessities. Tentative essays have indeed elsewhere been made, but at best these amounted to little more than the acquiring from landscape gardeners of suggestions as to the obtaining of pleasant effects in sites, vistas and gracefully curving paths, no effort being made towards establishing a consistent style and logical plan, or the elimination of well-meaning but impossible monuments to the taste of past authorities who "did not know much about art, but did know what they

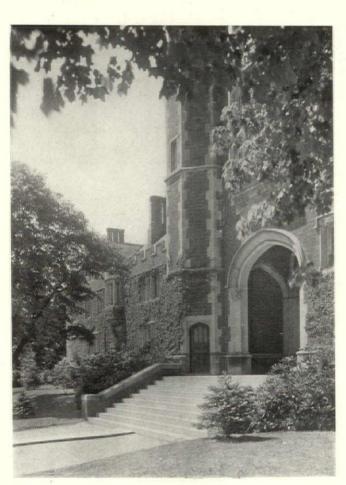


liked." To be sure, West Point, impelled by such a remarkable conjunction of minds as President Roosevelt, Secretary Root, General Mills and Colonel Larned, not to speak of the other civic and military personalities who worked with them, had begun precisely this process of regeneration, but the civil institutions of learning were quiescent, controlled perhaps by the convictions put into words by the distinguished president of a distinguished university when urged to advocate the preparation of a general plan for his stylistically diversified

alma mater, to the effect that "he did not believe in prejudicing the future."

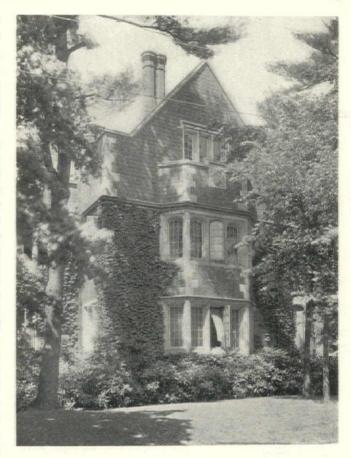
Fortunately this curious superstition had been outgrown at Princeton. The "go-as-you-please" method of designing and placing buildings was abandoned when the Pyne Library was designed by Mr. Potter, at the donor's insistence, in a somewhat modified type of "collegiate gothic," and Blair and Little Halls—the magnificent rampart of exquisite Tudor design that defines the campus to the west—had been created by two ever-to-

be lamented men who did so much to redeem scholastic architecture in America, and whose untimely death was a loss irreparable—John Stewardson and Walter Cope. After this there was really no going back. These buildings had done their educational work, and so effectively, that the authorities voted that for the future art in Princeton should be a duty and not a variety show, and that anything done hereafter should be in the style revealed by the Library and Blair and Little; the style fixed forever by Oxford and Cambridge, Winchester and Eton; the style that education and learning had made their own and held for two centuries a bulwark against the tide of the secular Renaissance; the style hewn out and perfected by our own ancestors and become ours by uncontested inheritance. So came Mr. Morris' altogether lovely '79 Hall in its good red brick and slim limestone mullions and varied sky line, marred only by its impossible red roof and its occasional errors in scale; also his Patton Hall, which might have been so good if the casements had only been of metal instead of wood painted white, and if there had not been a fatal error in the matter of the stone surfacing, which is of that lamentable "rock-faced" variety, a last lingering heresy from the misunderstood dogmas of that immortal genius, H. H. Richardson. Came also Cope and Stewardson's gymnasium, Parish and Schroeder's Dodge Hall, and Mr. Gildersleeve's quite perfect bits of halftimber work in Upper and Lower Pyne, and his vast McCosh Hall, brilliantly conceived, failing only in point of scale.



SEVENTY-NINE DORMITORY

PRINCETON UNIVERSITY



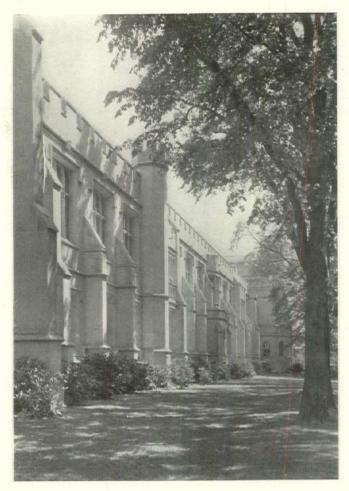
SEVENTY-NINE DORMITORY

PRINCETON UNIVERSITY

Thus far, while the style had been well maintained, the several buildings had been placed pretty much at will, even by accident, but almost always intelligently and with a kind of sub-conscious impulse towards co-ordination. The old days when Witherspoon and Alexander, Brown & Dod could be designed as they were and placed as they were, were gone, but something was lacking, and the moment this want was realized and its nature perceived, the University took action.

This lack was manifestly that of a general plan, a project worked out on the broadest lines, calculated for a century of growth, fixed in its principles, but variable in detail as conditions might change or exigencies arise; a project that should, so far as possible, tie the anarchy of the past into the order of the present, "plant out" by carefully placed new work the aesthetic indiscretions of a munificent but misguided ancestry, and above all give through its unity and co-ordination a visible showing of the same qualities in the regenerated educational system.

It was then, viz., in 1906, that the University did me the distinguished honor of asking me to help its officials in the working out of the two ideals they already had established: stylistic unity and consistency of plan. The credit for neither belongs to me, I am sorry to say, for from the time the Pyne Library and Blair and Little were built—long before I came on the scene—there was no escape from either. What I had to do was to show as best I could how these ideals might be put into material form. Just before I took charge as Supervising Architect Mr. Hardenburg had been given the Physical Laboratory to build, Messrs. Parish and Schroeder the combined Geological and Biological Laboratories, and the



MCCOSH HALL

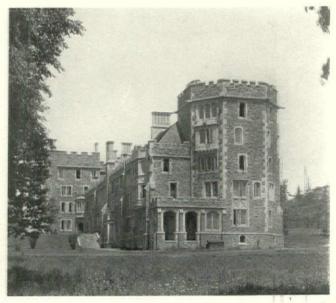
PRINCETON UNIVERSITY

general site determined upon. The first blow for unity was struck here and with the hearty cooperation of President Wilson and the Committee on Grounds and Buildings under the chairmanship of Mr. Archibald D. Russell. These laboratories were so arranged on the sloping ground to the east of Prospect that at some future time extensions and additions will tie them together into a huge group of science buildings around a great quadrangle terraced from north to south. Both buildings are now finished, the former holding closely to precedent in general mass and composition, rich and effective in color, with some admirable spacing of ornament in the gables, failing chiefly in the scale of the detail at the entrances; the latter being a remarkably vital and clever adaptation of Tudor forms to an extremely difficult problem. The mass and composition are brilliantly effective, and in view of the rigid requirements of the departments it is hard to see how more successful results could possibly have been achieved.

The great question, however, was the general plan. Everything hung on this, and no new buildings could be placed until its main dispositions were determined upon. The situation was not a simple one. To be sure it was less complicated than that offered by Harvard or Yale, where the chaos of styles passes belief, and the crowding of mutually inimical structures makes only a cataclysm æsthetically operative; still, Princeton had grown on the old individualistic lines, and from the sacred "Old Nassau," built of tawny, rough rock in the unimaginative but quite inoffensive fashion of Colonial

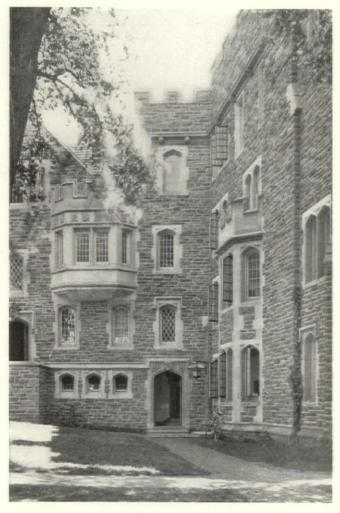
days, confronted by two white marble "near-temples," with a red sandstone Gothic library on the one hand and the nondescript Reunion on the other, to the wildly and improbably Romanesque Alexander, the Kubla-Khan fantasies of Witherspoon, the party-colored Renaissance of Brown and the Art Building, and finally to the varied yet always beautiful works of the new Gothic dispensation, the range was sufficiently wide for the taking of careful thought. In the matter of disposition conditions were better. Of course it was the old "park scheme," each structure plumped down on its "squatter sovereignty" site, quite self-contained and self-satisfied, with no suspicion of such a thing as team work, but there was almost no crowding. Only one building-Dod Hall—had been placed with a malignant defiance of law and order. The old Campus was a real one, and a major and a minor axis existed, at all events in posse, while the Front Campus, McCosh Walk and Prospect, with their wonderful trees were enough to redeem a setting a thousand times worse. Princeton was spacious and Princeton was splendidly scholastic in its atmosphere, already more like Oxford and Cambridge in its appeal than any other American university I have seen, while it was joyfully free of the secular shoulderings and encroachments of Harvard and Yale, Columbia and Pennsylvania. The new ideals could be realized, there was no question about that, and without the drastic surgical operations or the cataclysms of nature that are necessary elsewhere.

In fact the general plan grew straight from the conditions. Certain psychological principles were laid down at once, and these may be interesting. First of all, an university was conceived as a place where the community life and spirit were supreme, the rest secondary; a citadel of learning and culture and scholarship, at the same time inclusive and exclusive, containing within itself all necessary influences towards the making of character, repelling all those that work against the same; a walled city against materialism and all its works, with a "way out" into the broadest and truest liberty; the heir of all the scholarship and culture of the past, its line of succession reaching back without a



PATTON HALL

PRINCETON UNIVERSITY



PATTON HALL

PRINCETON UNIVERSITY

break through Oxford and Cambridge, Padua and Paris, Bec and Rheims, Salerno and Salamanca, to the schools of Athens—and further. From this it followed that concentration should supersede diffusion; that the limiting lines should be fixed, and gradually built up until they walled off from without a sanctuary free of the incursions of automobiles, "seeing Princeton" vans

and motor cycles, and measurably exempt from the ingratiating approximations of the tripper, the tout and yellow journalism. Also that ultimate unity should result from a congeries of subordinate units, individual buildings being connected up with each other, in many cases forming "quads" (the word is used architecturally and without any hidden meaning) which should form the various nuclei of residence; that the whole setting out should not reveal itself at once and from any spot, but gradually, through narrowed and intensified vistas, the unforeseen opening out of unanticipated paths and quadrangles, the surprise of retirement, the revelation of the unexpected; that in all this concentration there should be no crowding, no loss of light and air; that the scale of open areas should be so devised as to enhance the effect of the buildings themselves instead of merging them in a sea of emptiness; that at least one great "way out" should be opened at any cost, clear to a blue distance of hilly horizon; finally, that in some way should be obtained the scholastic suggestions, the evocative impulse of Oxford and Cambridge, the sense of unshaken tradition, one with that of the great universities of our own blood and temper.

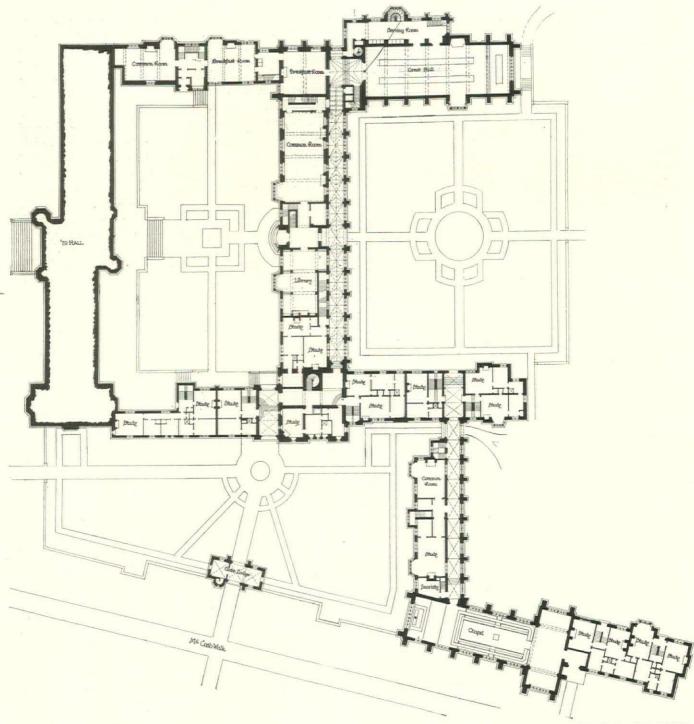
The general plan shows the efforts thus far made towards the achieving of all this. The old campus is treated as sacred, never to be touched by man, the buildings and the Cannon fixed forever; unchangeable, except that West must lose its mansard roof, Reunion give place to something a shade less annoying, Nassau gain a simple Georgian portico fronting those of Whig and Clio across the campus. Due south from Nassau, between the latter buildings, is to open the "way out," the broad, unbroken vista of green turf and double rows of English elms, stretching away across an university park to Lake Carnegie, and so to the far horizon. Between Whig and Clio is a wide flight of marble steps, and a terrace as a base for the latter buildings, and on these steps a statue that shall symbolize the University in its personal relation to every alumnus. South of this, the main axis is defined by a range of buildings on the east planting out the Art Building (and Brown, if possible), while to the west Dod, the interloper, is moved back forty feet, sunk one story, deprived of its roof, yellow chimneys and scaffolding of fire escapes, and bound over to keep the peace for the future. Fronting this main axis is the Chapel, large enough to accommodate the whole body of students and faculty instead of a moiety thereof, as is the case with Marquand, with a great central tower that forms, as does the Chapel itself, the focus of the whole group, symbolizing the sound doctrine to which Princeton has always held (in contradistinction to some others) that neither character nor culture reach their full fruition except when religion plays its due and potent part.

The main axis established, a cross line is necessary, and this grows up just south of the terrace of Whig and Clio, starting from a main gate on University Place, crossing the Campus to the point where it meets Mc-



PATTON HALL

PRINCETON UNIVERSITY



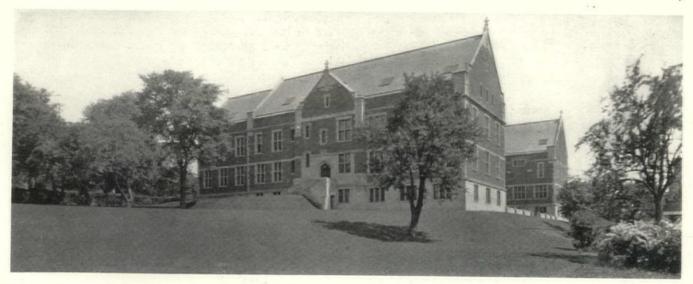
TENTATIVE PLAN FOR THE GRADUATE COLLEGE

PRINCETON UNIVERSITY

Cosh Walk, and turning thence to the north until it joins the road that enters the grounds from Nassau Street and leaves at Washington Road. The old drive north of Whig and Clio is abolished, a footpath taking its place, and in future vehicles will be excluded from the old Campus. As for the other drives, the one that now enters from University Road south of Campbell Hall is done away with, and a new line opened between Campbell Hall and the Sage group, and this, connecting with one from Nassau Street west of the First Church, forms the carriage approach to Alexander Hall, and passing around it turn south toward the Gymnasium, crossing the new drive south of Whig and Clio, and continuing to the Gymnasium, a college theatre opposite Brown on the other side of the main axis,

and so to Elm Drive, where it cuts yet another east and west road struck through between the Physical and Biological Laboratories.

These main lines once fixed, the remainder of the work consisted largely in a composing of the different units into consistent groups, usually in quadrangle form, with due regard to a sufficiency of light and air, the preservation of all fine trees, and the affording of pictorial vistas, varied in their objectives, their framing, and in their light and shade. Generally speaking, the dormitories were segregated west of the old Campus, the Science buildings to the east of Prospect, with an assignment of space for Applied Science on the other side of Washington Road, while the lecture rooms, etc., are given the entire northeast quarter between the



PALMER PHYSICAL LABORATORY

PRINCETON UNIVERSITY

Library and McCosh Walk. Some of this "filling in" is interesting; south of Whig and Clio, and on the left, the slightly unaccommodating Art Building is incarcerated in a group of courts that fill much of the space between the proposed new Chapel and Brown Hall, a portion of the new building being devoted to an augmentation of the department of Fine Arts and, if one is ever required, a School of Architecture. On the right, lateral wings are built west from Dodge Hall, which (with the drastic treatment to which it is some time to be subjected (may mitigate its severity and modify its contours, so forming with Blair Hall a series of minor quadrangles, while the Campus is to be determined on this side by the prolonging of West College south toward Edwards, and as far as the cross axis. Ultimately the Library may be extended until it joins with Dodge Hall, forming a new library court, and this, with the reconstruction of Reunion, will leave the great Campus, the heart of the University, clearly determined and defined, yet with many vistas opening out in as many directions.

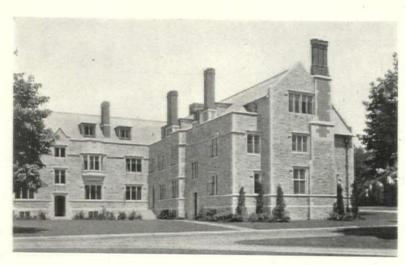
The problem of Witherspoon, Alexander, Blair, West and Campbell is as yet unsolved, and must remain so (except by process of elimination) until con-

ditions change in the future. It is difficult to see what can be done with the two buildings first named, so far as harmonizing them with any just scheme of scholastic architecture is concerned. Witherspoon might be shorn of its coruscating coronet of stars, and as for Alexander, English ivy and ampelopsis are an everpresent help in

time of trouble; at best, however, the situation is unsatisfactory, and this area may perhaps best be left pretty much as it is until time makes possible more radical action than is now desirable.

One of the great and feasible reforms now under way is the transformation of the whole northwest corner of the Campus, now occupied by the ex-hotel in the hotelesque style of the eighties, and-until latelyby a somewhat diversified row of buildings on Nassau St., the old gymnasium and the observatory. Here the elimination of the old gymnasium has made possible the building of Campbell Hall (Cram, Goodhue & Ferguson, architects), and when the Observatory can be removed this will be continued to the extension of Blair, so completing a quadrangle closed on three sides and consistent in architectural style. As for the corner of Nassau Street and University Place, Mrs. Russell Sage has made possible the beginnings here of a great double quadrangle, largely for the housing of freshmen, which bids fair to be one of the most notable pieces of scholastic architecture yet built in the United States. I had the honor of nominating Messrs. Frank Miles Day & Bro., of Philadelphia, as architects for this group, and the brilliancy, the scholastic calm, and

the Oxfordian quality, mingled with all that is best in modern architectural spirit and accomplishment, are notable indeed. If, as must in some way be made possible, this group is immediately completed. Princeton will possess a monument superior in many ways to the best of the work now being done in Oxford itself on sim-



SEVENTY-SEVEN HALL

PRINCETON UNIVERSITY



STAFFORD LITTLE HALL

PRINCETON UNIVERSITY

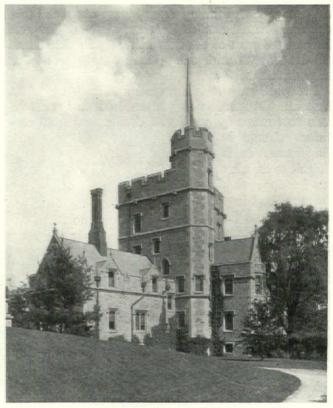
ilar lines. In connection with developments at this point, there is now a project for a monumental tower gate connecting the University Place fronts of the Sage Group and Campbell Hall, extended, and sketches have been prepared suggesting in a measure the tower of St. John's, Cambridge.

At the northeast corner the plan proposes, of course, the extension of McCosh Hall to the north and then to the west, forming a great court of somewhat irregular shape, the centre of which will be the very beautiful replica of the Corpus Christi sun-dial given by Sir Wm. Mather, and now in place: Dickinson is frankly condemned, and some day its place is to be taken by a range of buildings parallel with the north front of McCosh Hall extended, which is to continue and more or less envelop Science Hall and then return to the west along Nassau Street as far as the public street that angularly cuts across the grounds at this point.

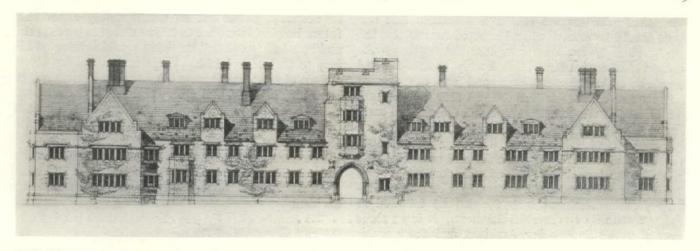
One of the hardest problems was that of the Graduate College: a sum of money was available for buildings, but, though large, it was quite insufficient for the purpose of obtaining even a beginning adequate in size and in architectural quality to this crowning feature of a great university. Legal difficulties and restrictions in the bequest hedged the whole matter with complications, and finally the easterly portion of the grounds of Prospect was recommended, not as ideal in every particular, but as conspicuously the best under the circumstances. It placed the Graduate College where it was always in sight of the undergraduate, reminding him that his degree is only a certificate enabling him to go on with those graduate courses without STAFFORD LITTLE HALL

which collegiate training is incomplete, while the plans were so laid out that almost complete retirement and isolation were guaranteed the graduate students themselves. It gave the school the most beautiful site and environment possible in Princeton (which is saying a good deal), with immemorial trees and quiet, old world gardens: it filled up an awkward hiatus between the Physical Laboratory, Seventy-nine, and McCosh Halls, tying them all together in one composition and enhancing the beauty of McCosh Walk. On the other hand, the space was too restricted for any very great future expansion, and there was the fear that the Graduate College might crowd too closely the President's house. Still, as matters stood until recently, the site seemed the best under the circumstances, and it was indorsed by the several authorities, and work was pushed forward on the plans by the architects, Cram, Goodhue & Ferguson. On the general plan the Graduate College is shown on this Prospect site, and the old detail plan is published for the purpose of indicating the general idea and the maximum development possible on this particular site—a total accommodation of 150 men, including Seventy-nine Hall, ceded as living rooms for graduate students.

The Prospect site never commended itself to some of the highest authorities, largely because of its circumscribed nature, and recently offers of very large additional sums for buildings and endowment, which seem to open up far greater possibilities than had hitherto been considered, have resulted in a reconsideration of this question of site; therefore, at this time, no detailed drawings of the proposed buildings for the Graduate College are shown, as, should the site be changed, they will be wholly revised. They follow, however, the highest ideals established by Oxford and Cambridge,



PRINCETON UNIVERSITY



EAST ELEVATION, FRESHMAN DORMITORIES

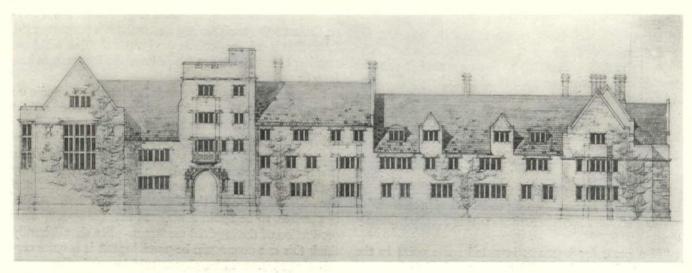
PRINCETON UNIVERSITY

and should they be carried out on the Prospect site can hardly do other than vastly improve the architectural composition at this point as well as intensify the remarkable beauty of the gardens of Prospect, while, if a distant and ample site is chosen instead, there will be the possibility of working out from the beginning such a group of quadrangles, cloisters, towers, halls, terraces and gardens as at present does not exist anywhere in the United States.

In addition to the just finished Physical, Geological and Biological Laboratories and Campbell Hall, with the Sage Dormitories and five or six additional "entries" along Nassau Street, forming an integral part of the great group of which Frank Miles Day & Bro. are the architects-and also the great Graduate College which will be begun as soon as the vexed question of site is set at rest-there are also in prospect the Eighty-four Tower, which may either link the Sage group and Campbell Hall or, possibly, form a part of the Graduate College, a new dormitory of five or six entries, and an extension of the Gymnasium for specific purposes. The "Princeton spirit" seems to do one thing, at least, and that is to loosen the purse-strings of every alumnus, for the amount of money that has been given during the past four years for buildings. equipment or maintenance, is probably larger than in the case of any other university in America, whatever

its size. To this overflowing generosity is due the facility with which Princeton is transforming itself architecturally, and if the drift of funds in this direction should continue at the same rate it will be a few years only before the general plan is materialized in every detail.

What the Committee on Grounds and Buildings and the Supervising Architect are trying to do is just to express in adequate architectural form the lofty ideals of character, education and scholarship put forward by President Wilson, Dean Fine and Dean West, and so efficiently carried out by the whole faculty with the enthusiastic coöperation and endorsement of the trustees. Princeton stands for a very coherent and consistent ideal, and this can be expressed with exactness by architects, and all other artists who work at her command, for this is the primary function of all art. There is nothing diffuse, casual or individualistic in the Princeton idea, but all is highly coordinated, controlled by sound law, infused with the impulse of an indestructible tradition that transcends the limits of continents and of centuries. Looking at the matter as a rank outsider, I should say that Princeton was inflexible in her adherence to the everlasting standards of deep and inclusive education, scholarship and character, but almost infinitely adaptable, within these unchanging limits, to modern conditions of time and race and en-



SOUTH ELEVATION, FRESHMAN DORMITORIES

vironment. To express this it was decided that one style should be prescribed and adhered to, and this the perfected style our own ancestors developed as the architectural expression of scholarship, at Oxford and Cambridge, Winchester, Eton and the other great schools and colleges of England as they were before the victory of the Renaissance, while the old and early American scheme of structural diffuseness, haphazard increments and self-centered individualism of parts should be abandoned for the elder and sounder ideals of unity, intimacy, coherency, coördination.

Such, in any case, is the governing idea of the University authorities, and such the method followed in fixing the lines of future development. It is on these lines that the Supervising Architect and those architects who cooperate with him in serving the University

must work for the future.

#### ARCHITECTURAL COPYRIGHT

The question of architectural copyright has been vigorously taken up by the Royal Institute of British Architects, who in the person of a specially appointed committee have appeared before a committee of the House of Commons.

The Builder of London, in a recent article, discussing the desirability of some form of copyright that would protect the architect from the unauthorized appropriation and use of his ideas as embodied in his detailed

drawings, states:

"The difficulty in dealing with the question of artistic copyright in architecture is that it is somewhat complicated with matters which are not artistic. As was said in a judgment given in Belgium—a judgment in favor of the architect, 'a distinction must be drawn in the architect's profession between the production which is a matter of current practice, and the production which, being the result of special study and exceptional knowledge, acquires thereby a character marked by individuality.' No one, as is elsewhere remarked, could prevent a man building a front with a door and six windows in it, because another house had the same arrangement. Whatever constitutes artistic design in a building is as proper a subject for copyright defence as artistic design of any other kind; but there may be considerable difficulty in deciding just where artistic design comes in. In most cases we can perceive where it does, but the legal drawing of the line may prove to be rather difficult, and we should imagine that each case would have to be decided on its own merits. We have always felt considerable doubt whether it would be possible for an architect to obtain copyright protection, for instance, for a special form of plan, considered as plan alone.'

In a statement drawn up by Mr. J. W. Simpson for presentation to the committee of the House of Commons, this difficulty is recognized. He observes that "the utilitarian value to the public of the architect's work has been cited as an objection to its being protected."

The Builder, in commenting on this fact, pertinently states:

"If a man, for instance, invented some point in the planning of a hospital which was recognised as being of hygienic value, and was therefore better for the inmates of hospitals, public opinion would hardly admit that future hospitals were not to follow this plan because the architect had 'protected' it. That would involve an injury to the public health. There may, however, be an artistic element, an element of fancy and invention, in mere plan as such, and where that exists it could, we think, be made a subject of copyright; but in this case again, it would be difficult to say definitely when the artistic element in plan did or did not exist."

The hardships that the architect is obliged to suffer and submit to are aggravated by the fact that he has at present no legal way of preventing the appropriation of

his ideas.

The Builder cites the two classes that are particularly flagrant violations of the architect's rights in this matter of piracy. We quote:-

"The hardship to the architect under the present state of things is specially felt in two classes of circumstances. One is when a house, perhaps, which he has erected in a country neighborhood, and which has been regarded as picturesque and pleasing, is laid hold of by some speculating builder and reproduced mechanically, generally with inferior detail, not only to the annoyance of the original designer, but to his probable pecuniary loss, since he might have been asked to carry out other houses in the same style. This kind of thing is not, in fact, confined to speculating builders. We have frequently received letters from people about to build a country cottage, asking whether we had published any nice designs of that kind which would meet their case; to such we have always replied that architects' designs were not published in our pages in order that they might be made use of by our readers without consulting the architect.

"The other set of circumstances are those which refer to the architect's property in his own drawings, a subject on which we have before spoken strongly. The case for the architect could hardly be put better and more strongly than it is in Mr. Simpson's evidence, in which he shows that the architect is really in the same position as the sculptor; the sculptor makes sketches and models, eventually a full-size clay model, from which nearly all the work of copying it in marble is done by other workmen. The architect makes his sketches, designs, and full-size details, which are carried out by workmen under his orders. The original sketches are as much, morally, the architect's property as those of the sculptor are the sculptor's property; the latter fact is seldom denied; the former the law will have nothing to say to, so far. We hope the law may before long be enlightened.

"There is one general remark however to be made on the subject, viz., that the idea of architectural copyright pre-supposes the view that architecture is an individual art and not, as it once was, a national one. We have always been of opinion that, since the Renaissance, architecture became an individual art, carried out by each special architect according to his own taste and choice. But there are those who still think that it ought, if possible, to be again a national art, the spontaneous production of the inspired workman. We should hardly think this can ever again be possible; but it is quite certain that if it could be, there could be no further ques-

tion as to architectural copyright."

### THE AMERICAN ARCHITECT

PUBLISHED EVERY WEDNESDAY BY THE

#### SWETLAND PUBLISHING COMPANY 239 West 39th St., New York

H. M. SWETLAND, President. J. T. Morris, Treasurer. M. J. SWETLAND, Secretary G. E. SLY, Advertising Manager

E. J. ROSENCRANS, Editor. WILLIAM H. CROCKER, Associate Editor.

#### SUBSCRIPTION RATES

United States and possessions, Mexico, Cuba - - \$10.00 per year All other countries \$12.00 per year Price per single copy regular issues, 25 cents

To insure the accuracy of our mailing lists, subscribers are requested to notify us promptly of any change of address, stating at the same time the address to which the paper was formerly sent. Our Subscription Department should also be notified if, for any reason, copies are not received promptly.

Entered at the Post-office, New York, as Second-class Matter.

July 21, 1909

Frontispiece:

Vol. XCVI., No. 1752

#### CONTENTS

Princeton Architecture	21
ARCHITECTURAL COPYRIGHT	20
RED GUM FOR CABINET WORK	30
RECENT LEGAL DECISIONS	32
Engraphy Comment	32
EDITORIAL COMMENT	31
Architectural Development of Universities.	
New York's Revised Building Code.	
ILLUSTRATIONS:	
Recent Work at Princeton University.	
Palmer Physical Laboratory (4 pages).	
Guyot Hall (4 pages).	
The Seventy-Seven Dormitory (4 pages).	
The Freshman Dormitories (4 pages).	
The Treshman Dorimtories (4 pages).	

Doorway, Cathedral, Prato, Italy.

O the heads of schools, universities and institutions of learning generally we commend for careful consideration the suggestions contained in Mr. Cram's admirable article published in this issue. While perhaps there may appear to lurk a trace of disrespect or ingratitude in the act of screening from view a building which, although the generous gift of some respected well-wisher of the institution, is so badly designed or unfortunately located as to be incapable of adaptation to an harmonious scheme, it is ordinarily wise to concern ourselves more with the general weal than the individual feelings. Of course, still better would be the complete removal of any structure interfering seriously with a comprehensive and carefully studied plan; but where this is conceded to be impossible the alternative of rendering the obstruction as unimportant and inconspicuous as possible seems highly desirable. In the newer institutions the prime importance of securing an adequate plan that will ensure not only an attractive ensemble, and afford convenient access and communication but provide for future development, has very often been realized; but in the case of some of the older universities and schools these matters received but scant attention. It appears most regrettable that vast sums of money have heretofore been expended in the erection of memorial halls, dormitories and gymnasiums on the grounds of some of our most cherished institutions without regard to an ultimate scheme of development. In the absence of competent architectural supervision, the varying styles of architecture and the promiscuous locations of buildings constitute in effect a challenge

to the professions of culture, refinement and taste of the institutions.

PERHAPS the lesson has now been generally learned, but if not, a knowledge of the difficulties and expense incident to but a partial overcoming of early mistakes should go far toward preventing their further perpetration. It is not too much to say that the university that does not present to its student body a fair appearance architecturally is neglecting one of its greatest opportunițies to instil in its undergraduates a knowledge and appreciation of architectural form and detail that would add to their enjoyment of life and to their usefulness as citizens. A realization of this fact will probably prevent any future work of importance in connection with either the rebuilding or enlargement of one of the older universities, or the establishment of a new one without entrusting the project to a supervising architect of experience and ability. His duty it will be to evolve a comprehensive general scheme, meeting the many and difficult requirements of the present and providing as far as can be anticipated for the demands of the future.

HILE a calamity long threatened sometimes comes almost in the nature of a relief to nerves overstrained, it must be admitted that the revised Building Code, passed by the New York Board of Aldermen last week with a bare majority of two votes, scarcely affords this small measure of solace. Possibly our faith in the intelligence and upright purpose of the majority in public service, as elsewhere, is not always justified, but we had cherished a firm conviction that an instrument so obviously defective even to the point of being open to the suspicion of having been framed to favor certain interests, would never gain the approval of the Aldermanic Board. We confess an error of judgment; for, while the strongest kind of opposition was manifested, the measure now stands with the official sanction of that honorable body. The next move will place it before the Acting Mayor for his approval or disapproval, and on his action will depend not only to great extent the wellbeing of New York's vast building and development interests for the immediate future, but in large measure his own future political career. What an opportunity to commend himself to the really intelligent, disinterested, public-spirited citizenship! His action will in effect constitute a reply to harsh accusations, to adverse criticism and to numerous bitter attacks. Already he has made announcement that only after the most exhaustive study and examination will he act, and it is inconceivable that the new unscientific, unprogressive and unjust code can ever successfully pass such examination. Even without personal knowledge of the matter one could scarcely fail to be impressed by the very significant fact that the instrument submitted has been opposed with almost perfect unanimity by organizations and men unaffiliated with any special interests and who, from education and experience, are eminently qualified to judge of the wisdom and justice of the many and variously complicated provisions. When such men with hardly an exception pronounce the proposed code a step backward as regards scientific progress, it would seem advisable to ascertain whether the fact is due to nothing more discreditable than mere ignorance.

#### RED GUM FOR CABINET WORK

The lumber industry of the country has been provided with much valuable information by the investigations which have been made through the scientific study of many species of trees, against the use of which there has been a prejudice for one reason or other, and from an economic standpoint this is one of the most important phases of the Forest work of the government.

The latest discoveries of valuable qualities in a former neglected species resulted after an investigation of the red gum, sometimes commercially called "satin walnut," which finds its home in the hardwood bottom lands and drier swamps of the South, in mixture with ash, cottonwood, and oak. This tree is one of the commonest timber trees of the South, reaching its best development in the deep, rich soil of the bottoms, where it often attains a height of 150 feet and a diameter of 5 feet.

The best grades of red gum, clear heart, find a market almost exclusively in the export trade, though a small amount is used in the United States for inside finishing. Practically 75 per cent of the clear heart gum lumber cut in this country is exported for use in England, France and Germany, for the maufacture of furniture, inside trimmings, newel posts and stair railings. The commoner grades of red gum are used in the United States for cheap furniture, desks, the better grades of boxes and a number of novelties. The poorest grade goes into boxes, barrels and other articles for which short, narrow boards can be used. The inner portion of the hearts of the trees, which are of little value for boards on account of shakes and other defects, are usually sawed into 2 x 4 to 2 x 12, and sometimes 6 x 6 and 6 x 8-inch building timbers. These timbers have small values in the large markets, but near the mills the local trade exhausts the supply.

The chief objection to red gum is its strong tendency to warp and twist. This can be entirely overcome by proper handling. Were the lumber of high price this difficulty would probably have been considered and overcome long ago, and the wood used, but on account of its abundance and cheapness, very few operators have turned their attention to solving the problem.

The preparation of red gum lumber for any purpose should begin when the tree is felled. To guard against staining and warping, it is handled in much the same way as other woods, but with the important difference that the piles are narrower, so that the air may circulate freely, and thus prevent fermentation of the sap, and that the cross sticks must be placed close together. It has also been found well to place heavy weights on the cars of red gum when they are sent to the kiln. Every manufacturer of high-grade furniture and trim knows that, to secure the best possible results, the material must be redried when it reaches the factory. Some large users of red gum repile the stock after it has been carried a while, and bulk it down with cross sticks every five or six layers, so as to straighten out whatever twist there may be in the boards. This practically assures the elimination of twisting and warping. It can be handled in this way to much better advantage than where an effort is made to straighten it out by force when cutting up the stock and preparing it for use; for, when the

pressure is applied gradually, there is no loss by reason of breakage or splitting. After having been dried and tempered in the air and then redried, it usually loses nearly all of its warping tendency. The cost of handling lumber in this manner is not great, and the good results secured thereby more than pay for whatever outlay there may be.

A plan which many furniture manufacturers have followed to good advantage and employed where red gum, oak, mahogany or other woods are used, is to design the article in such a manner that the wide pieces may be reinforced, and thus prevent any warping or other defects showing up. Instances have been known where red gum boards 18 inches wide have been glued together and made into 36-inch desk tops. The tops were firmly cleated on the bottom, held to place as well as any other wood and gave good satisfaction. This lumber had been standing on the sticks for about a year. Another manufacturer, who uses red gum for drawers and paneling, guarded against the tendency to shrink and swell by the application of a couple of coats of shellac inside and out, and found that the wood behaved itself as well as any that could have been used. In this instance, plain-sawed gum was employed, and plainsawed material ordinarily gives more trouble than quarter-sawed.

When the work is properly performed and well-seasoned red gum is used, the results should be satisfactory in every way. The beauty of this wood should appeal more strongly to the American people in the future than it has in the past.

#### RECENT LEGAL DECISIONS

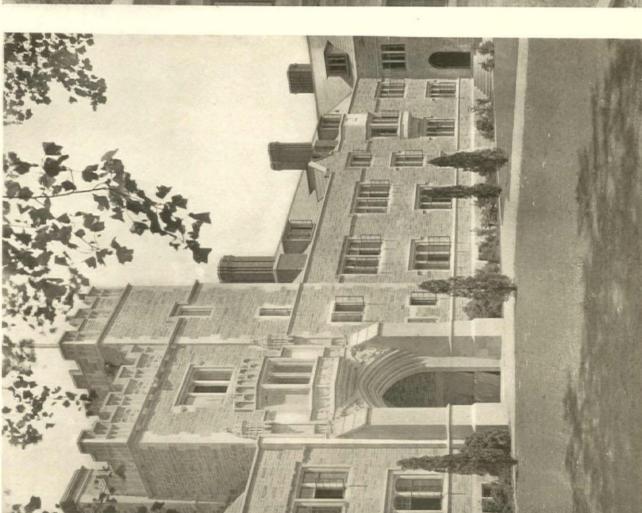
LIABILITY FOR DELAY IN COMPLETING BUILDING

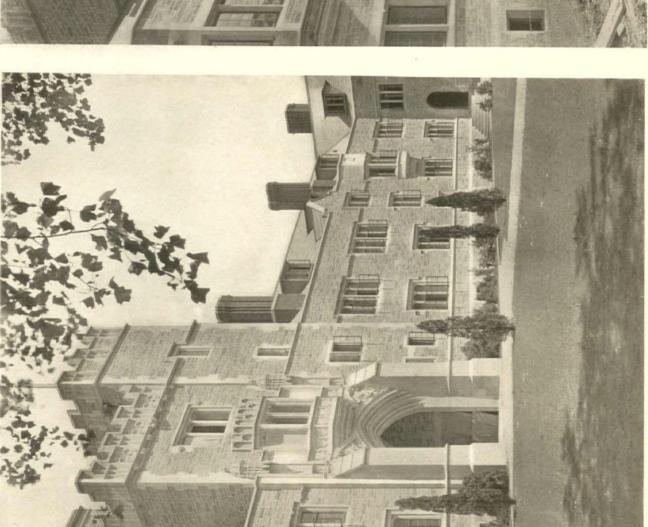
A building contract stipulated for a penalty of \$150 a day while the work should be uncompleted after the date fixed for completion. A number of contracts, independent of the general contractor's, were let whereby a large amount of work was to be done and materials furnished by independent contractors, and their delay caused part of the general contractor's delay. The court held that the general contractor would be relieved from liability for the penalty, as it would not attempt to apportion the liability and say for how much delay the general contractor was liable.—Jefferson Hotel Co. v. Brumbaugh, 168 Federal Reporter, 867.

#### Amount Recoverable Where Contractor Wrongfully Discharged

Where a building contractor is wrongfully forbidden by the owner to carry out his contract he is entitled to recover the reasonable value of the work done and the materials furnished by him and appropriated by the owner, without diminution by any alleged damages suffered by the owner on account of the failure of the contractor to complete the contract according to its terms. Whatever damages ensue are the result of the owner's own wrongful act.—Moore v. Board of Regents for Normal School in Dist. No. 2 (Supreme Court of Missouri), 115 South Western Reporter, 6.

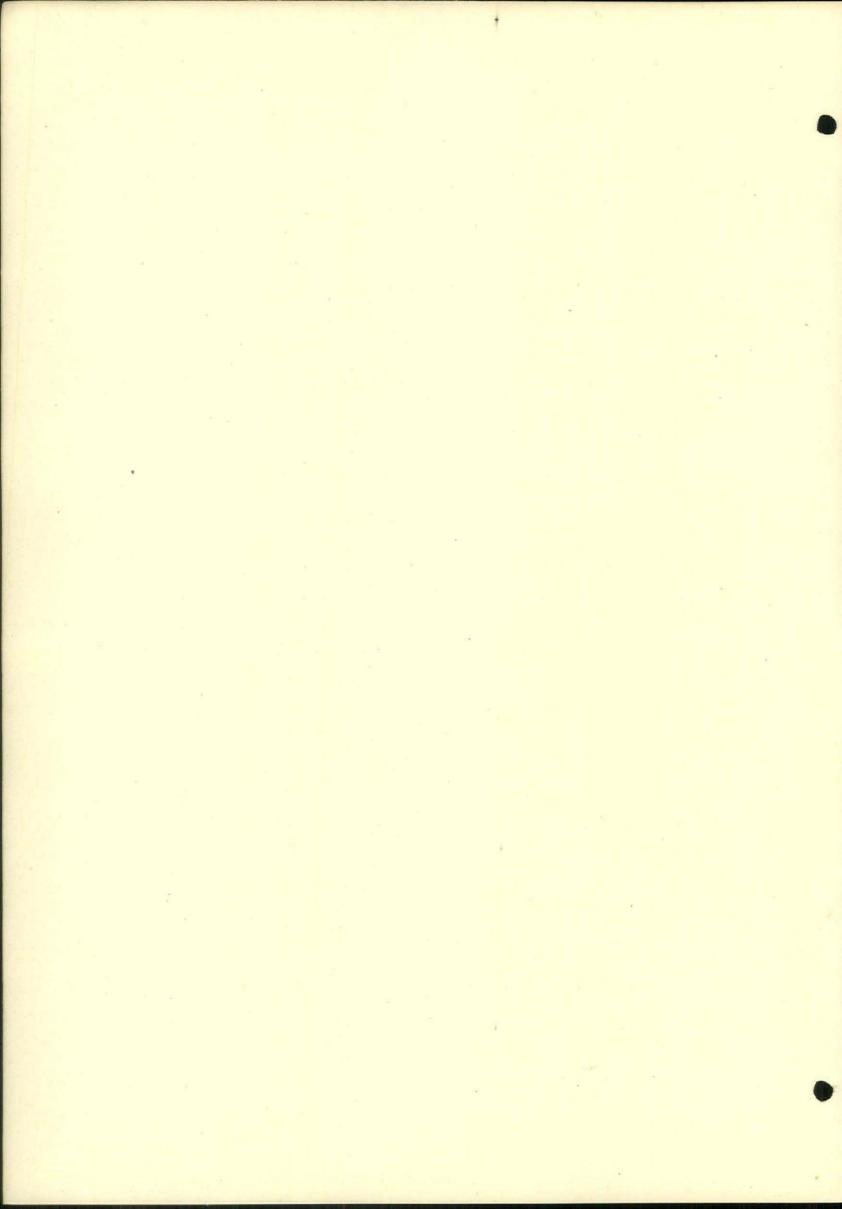
VOL. XCVI., NO. 1752

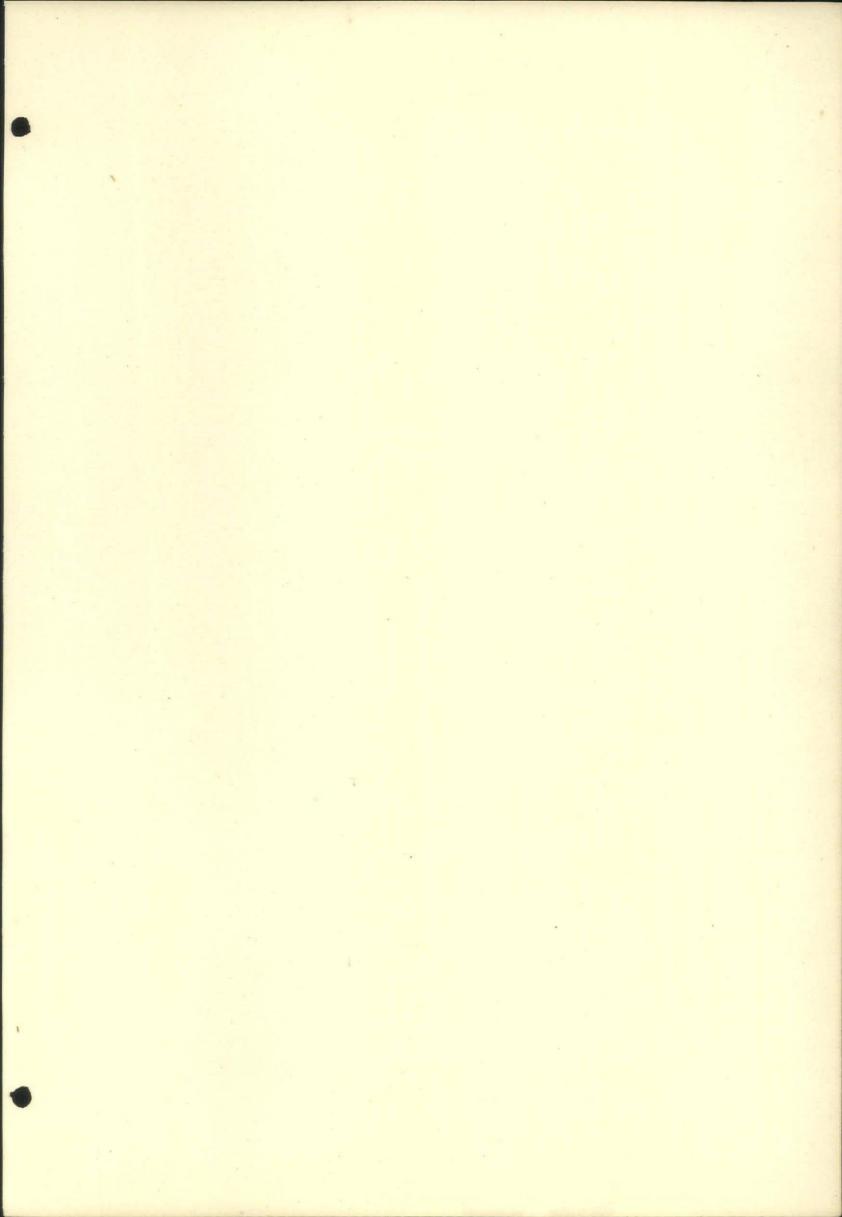




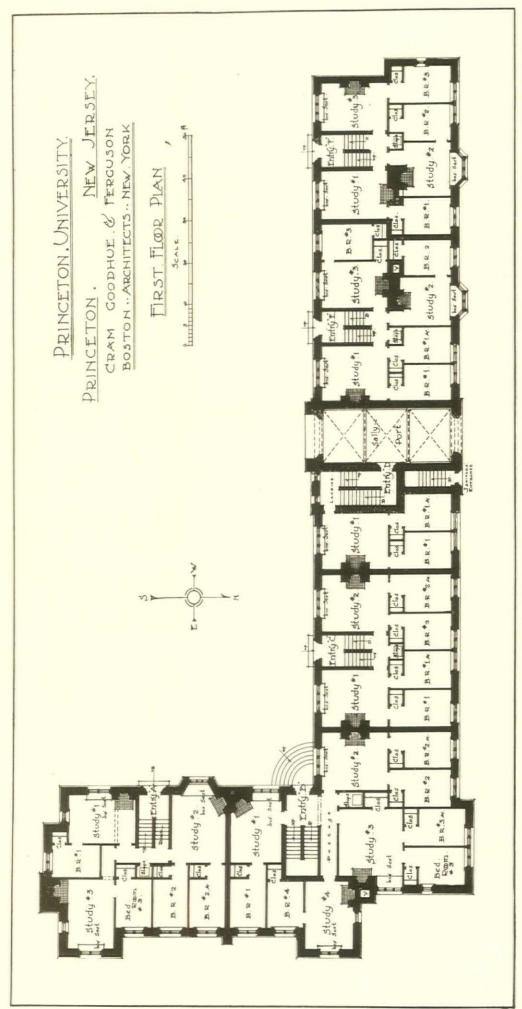
THE SEVENTY-SEVEN DORMITORY PRINCETON UNIVERSITY, PRINCETON, N. J.

MESSRS, CRAM, GOODHUE & FERGUSON ARCHITECTS





VOL. XCVI., NO. 1752

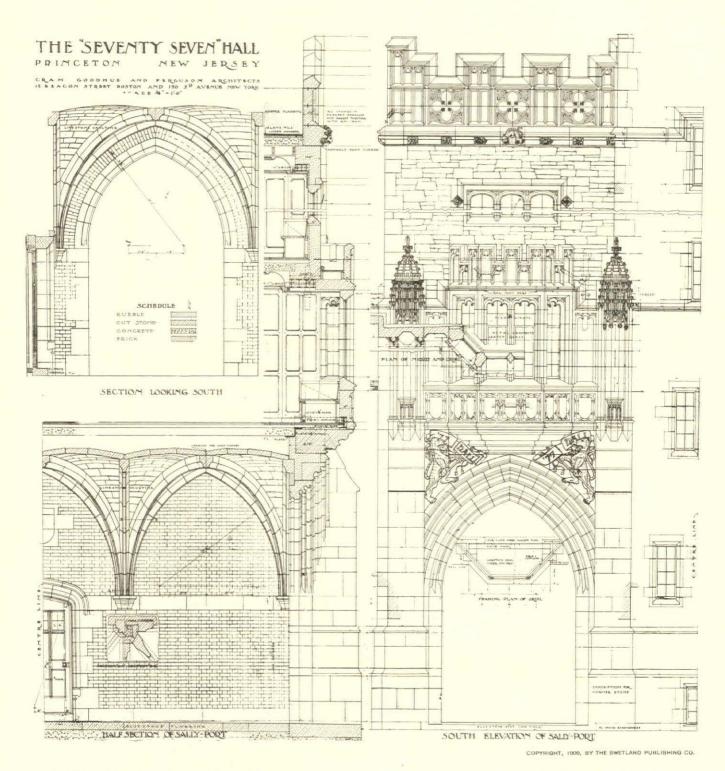


THE SEVENTY-SEVEN DORMITORY PRINCETON UNIVERSITY, PRINCETON, N. J.

COPYRIGHT, 1309, BY THE SWETLAND PUBLISHING CO.

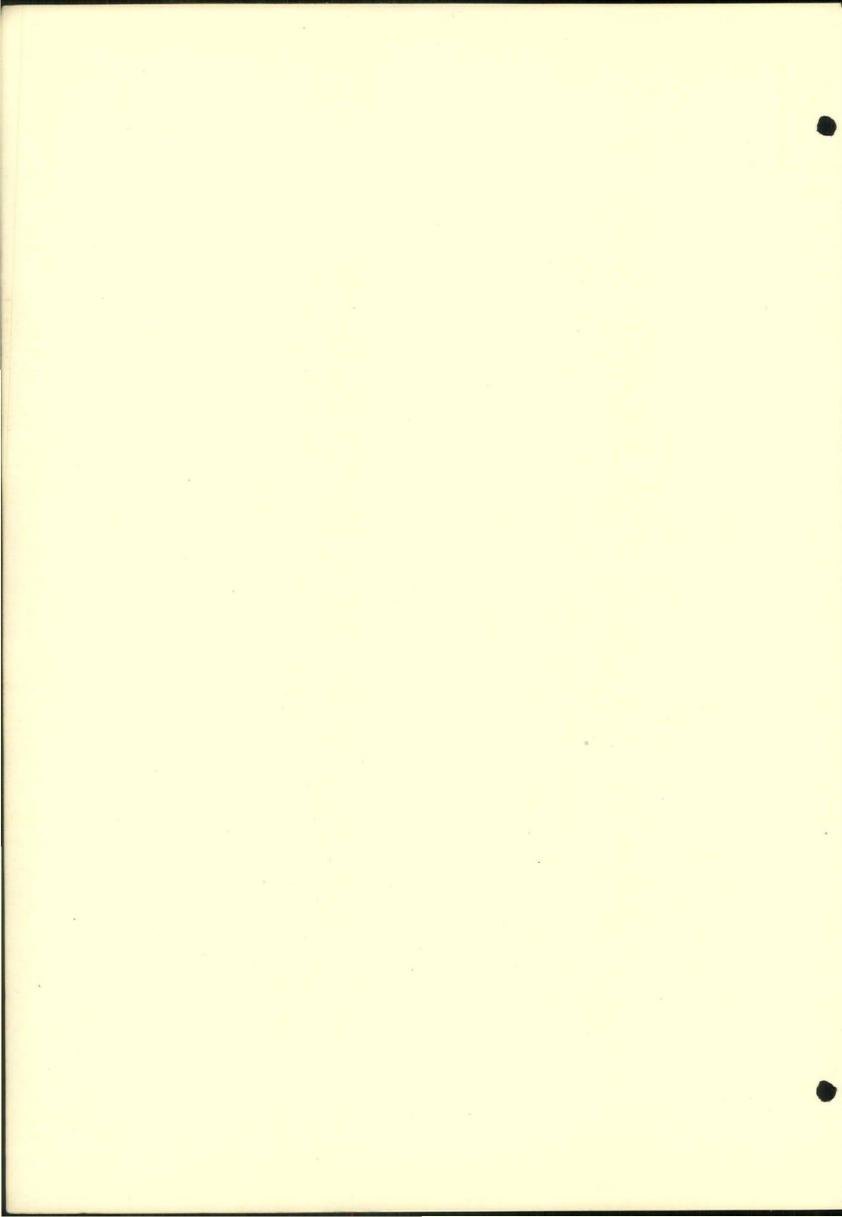
MESSRS. CRAM, GOODHUE & FERGUSON

ARCHITECTS

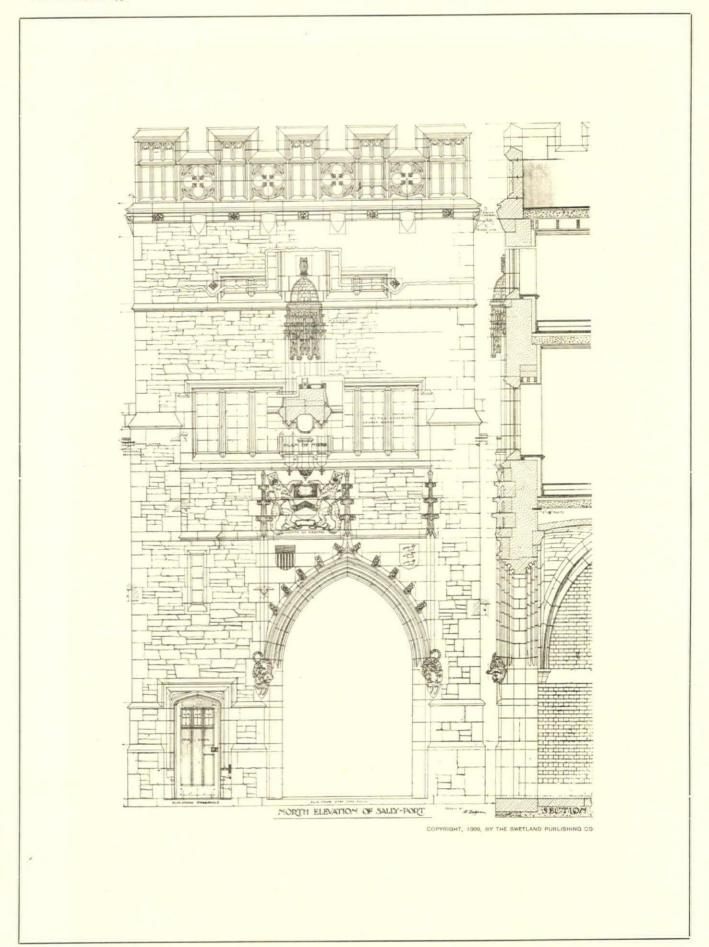


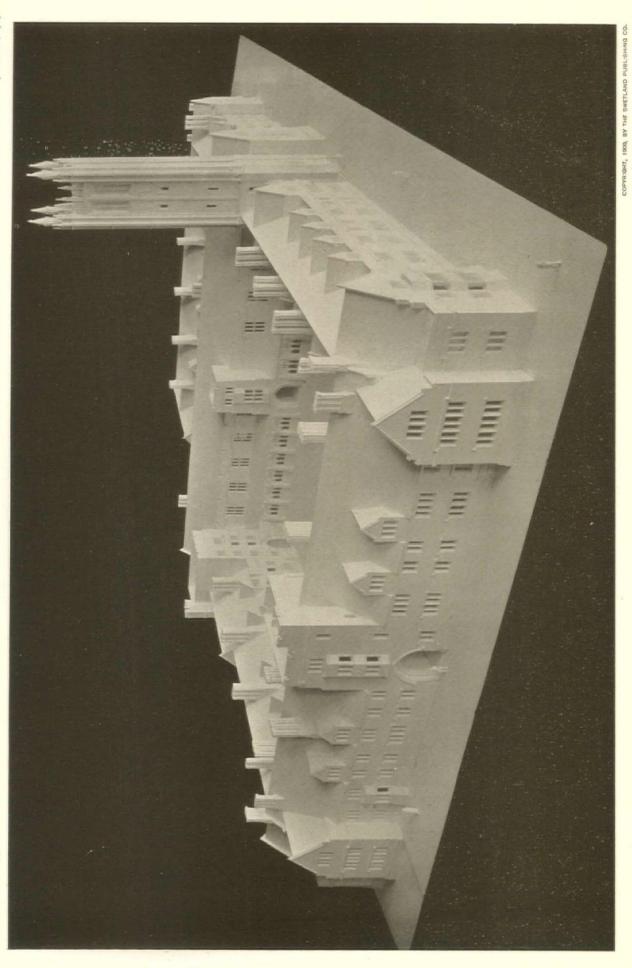
THE SEVENTY-SEVEN DORMITORY PRINCETON UNIVERSITY, PRINCETON, N. J.

MESSRS. CRAM, GOODHUE & FERGUSON ARCHITECTS



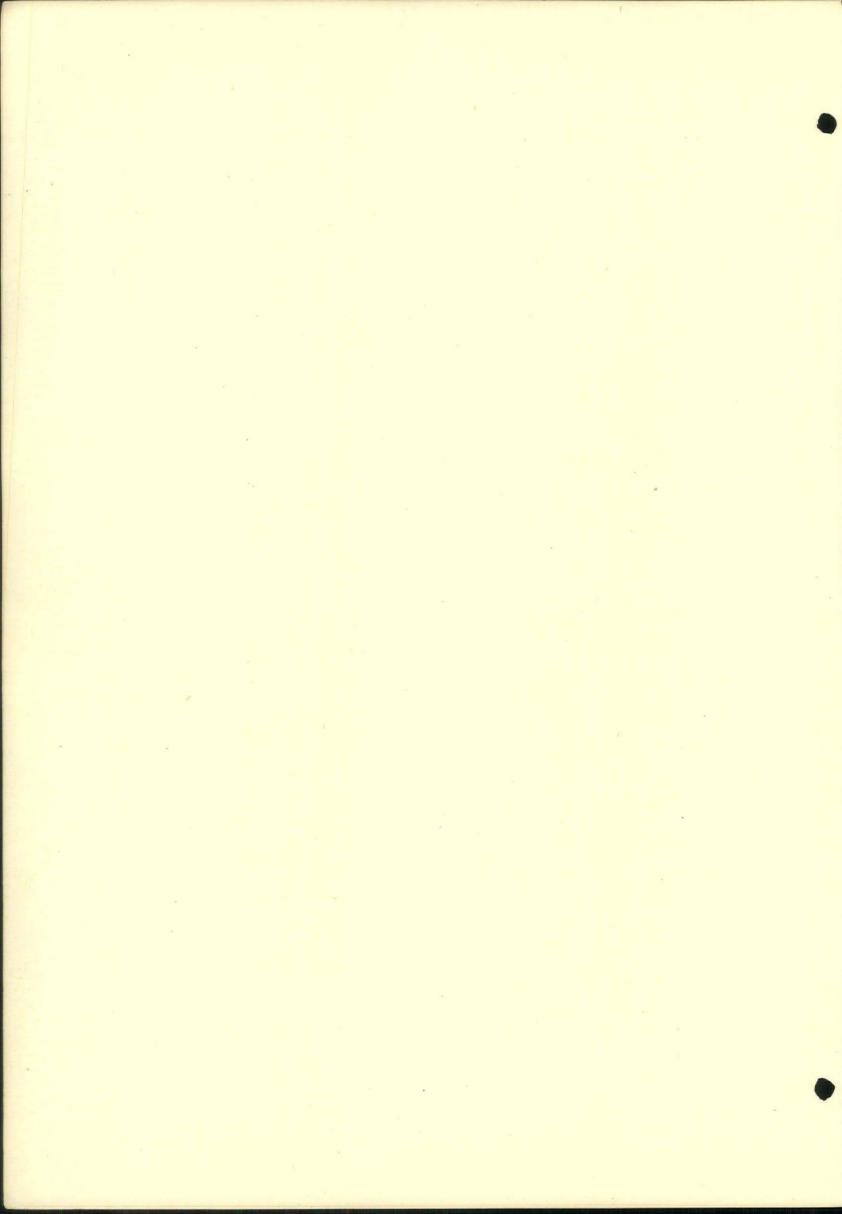




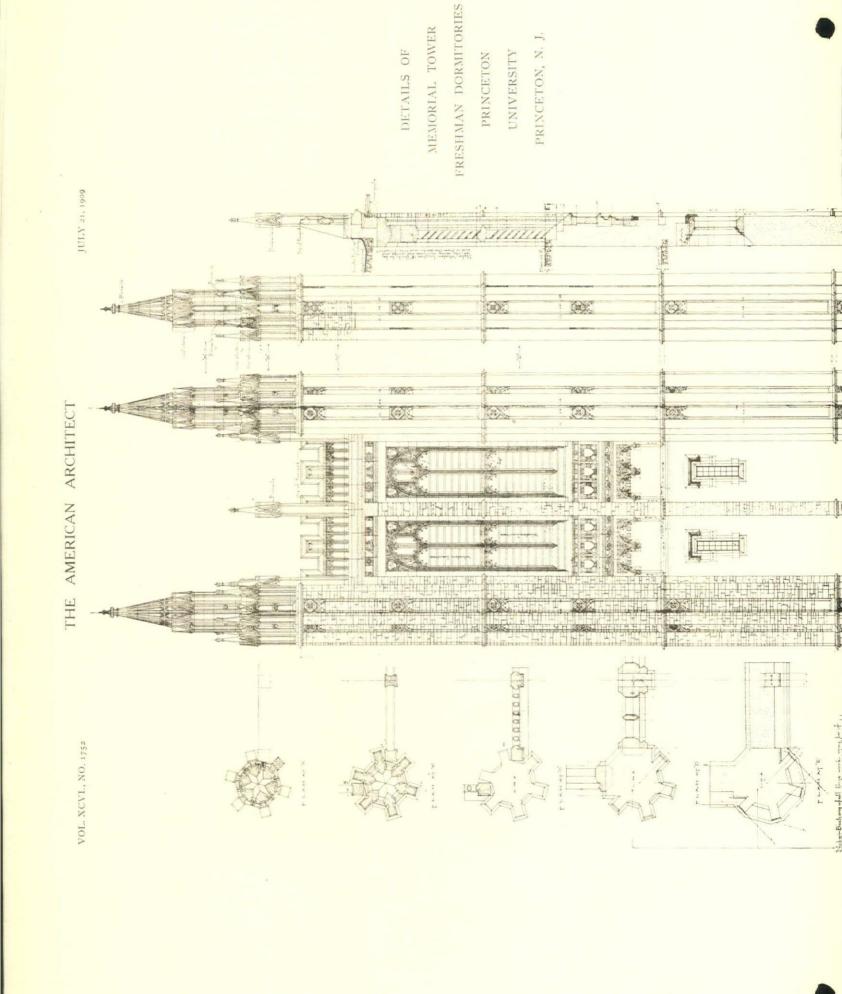


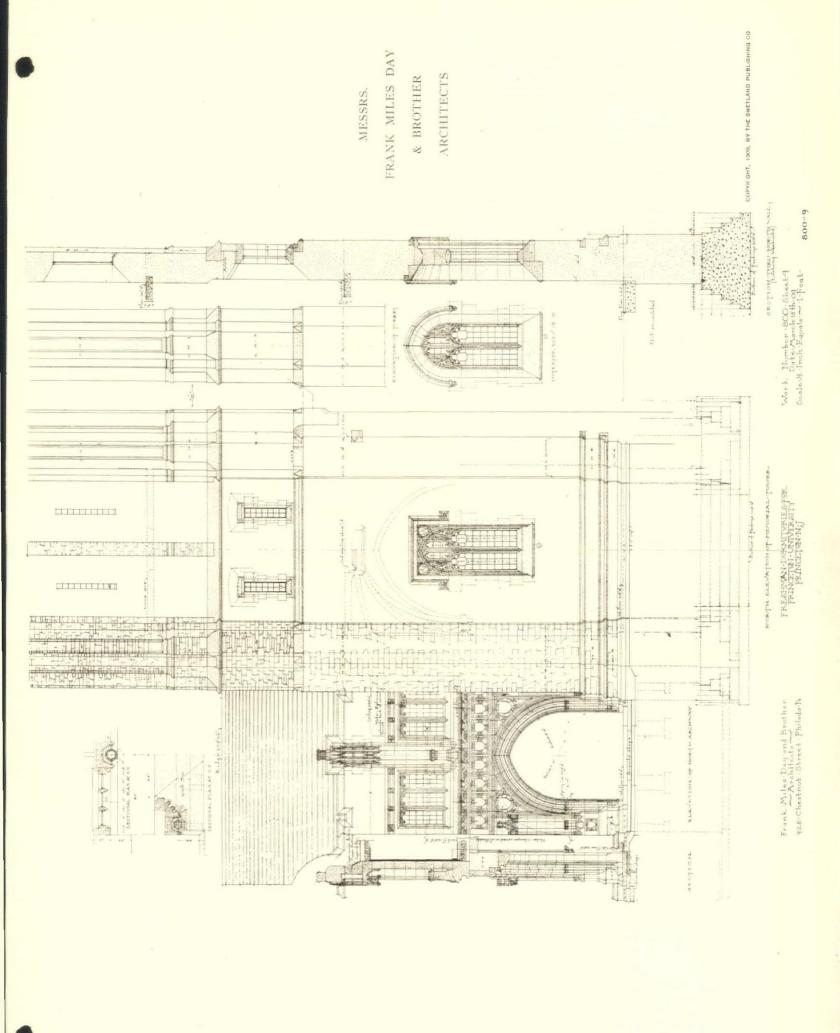
FRESHMAN DORMITORIES PRINCETON, N. J.

MESSRS, FRANK MILES DAY & BROTHER ARCHITECTS

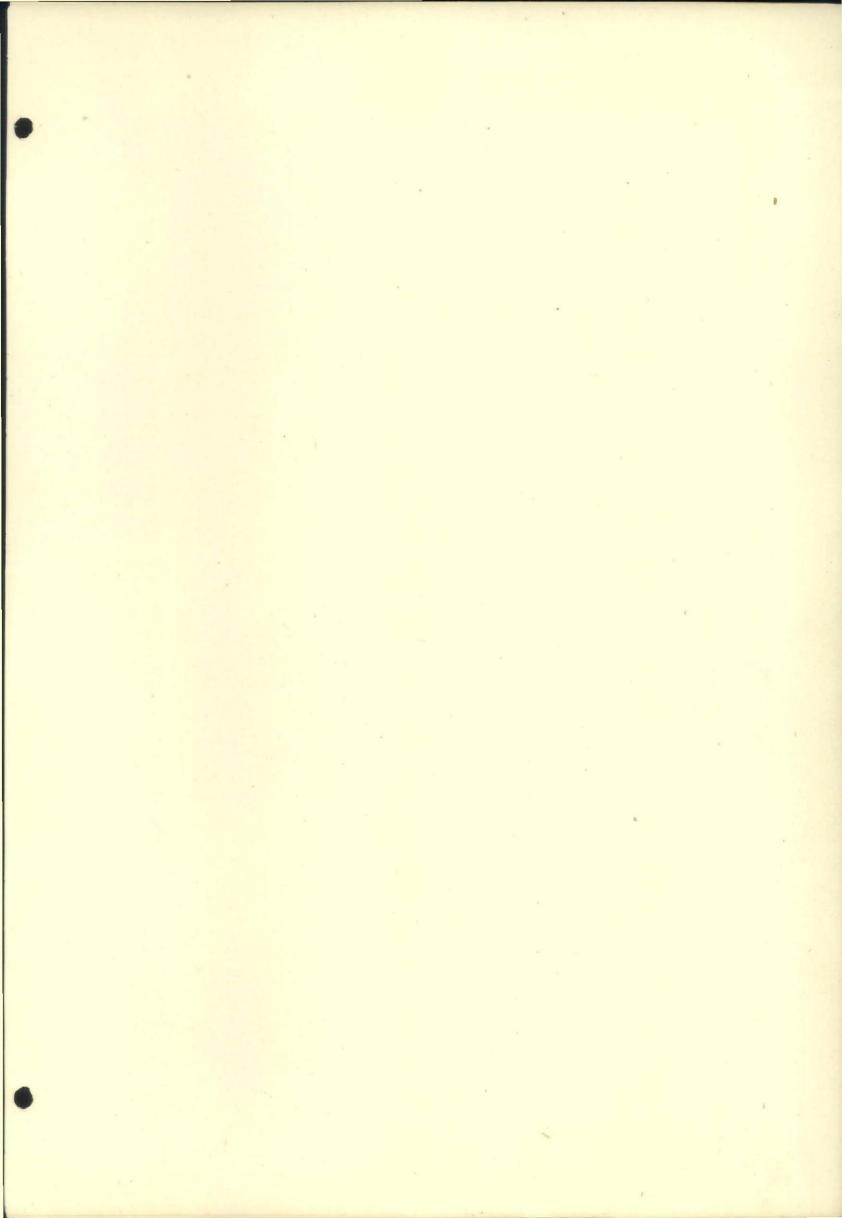


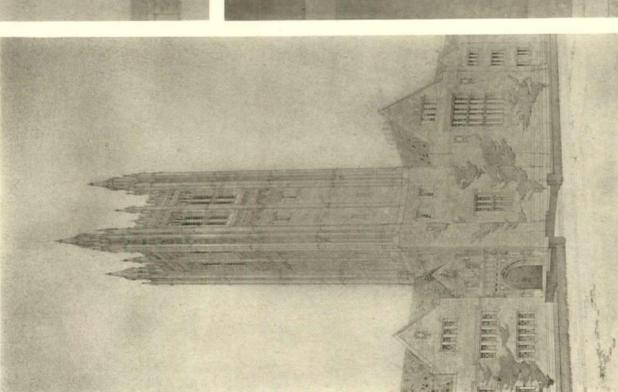




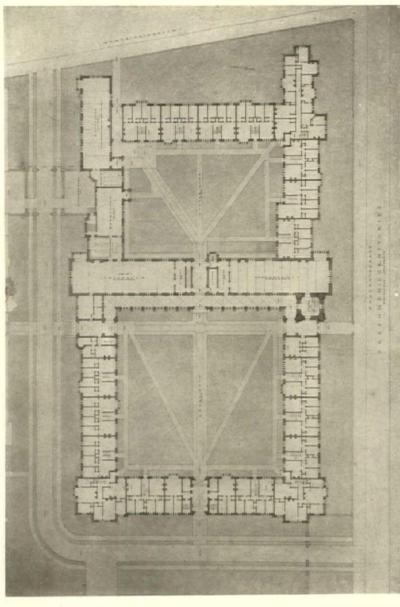






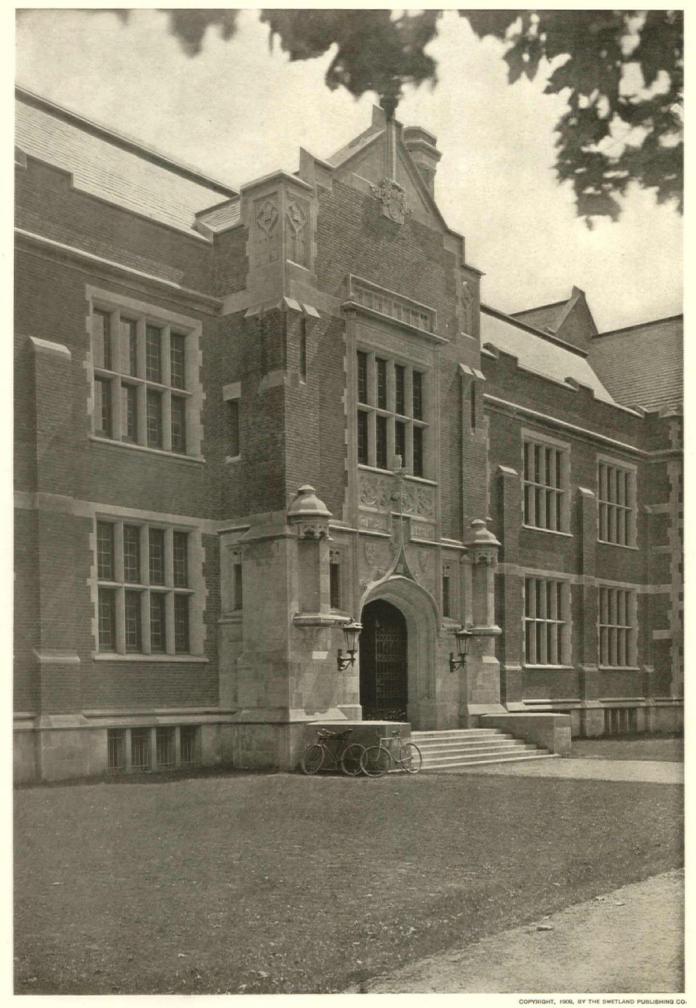


THE RESIDENCE OF THE PARTY OF T



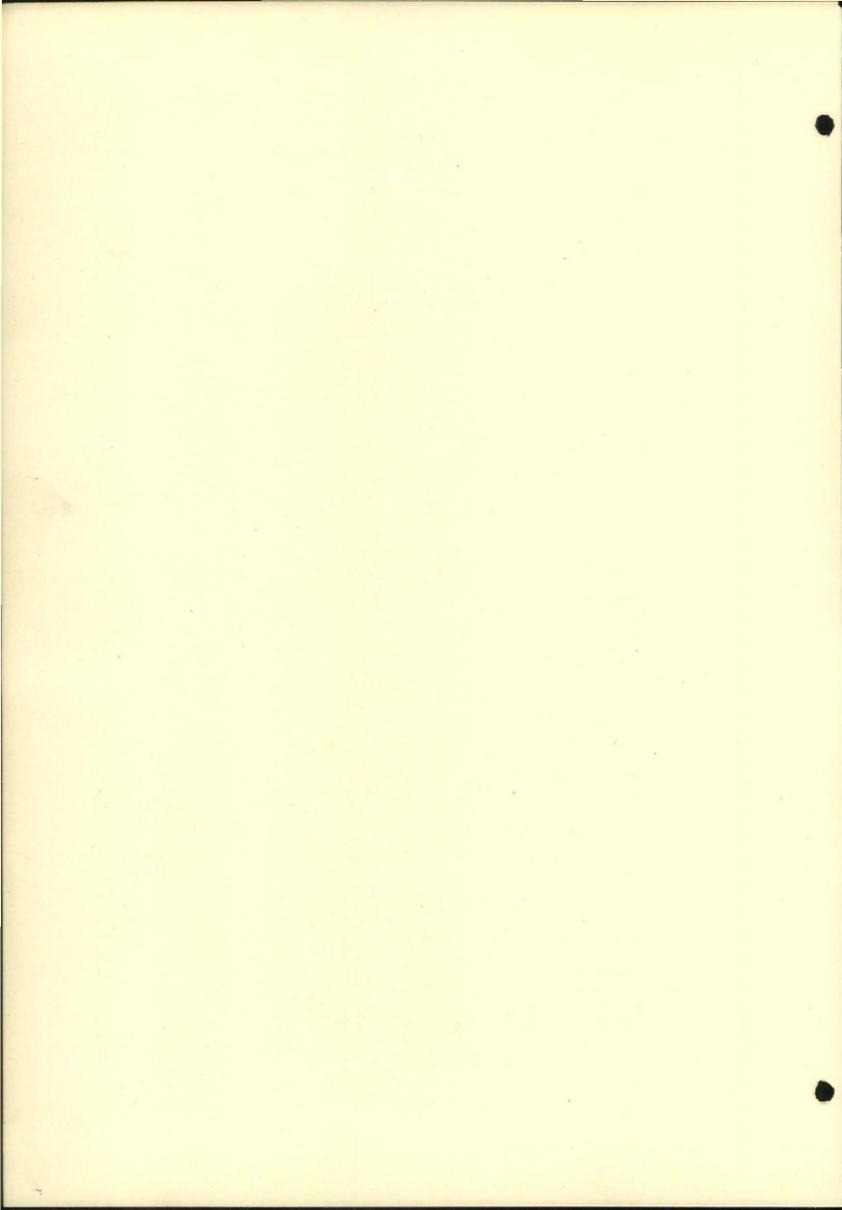
MESSRS, FRANK MILES DAY & BROTHER ARCHITECTS

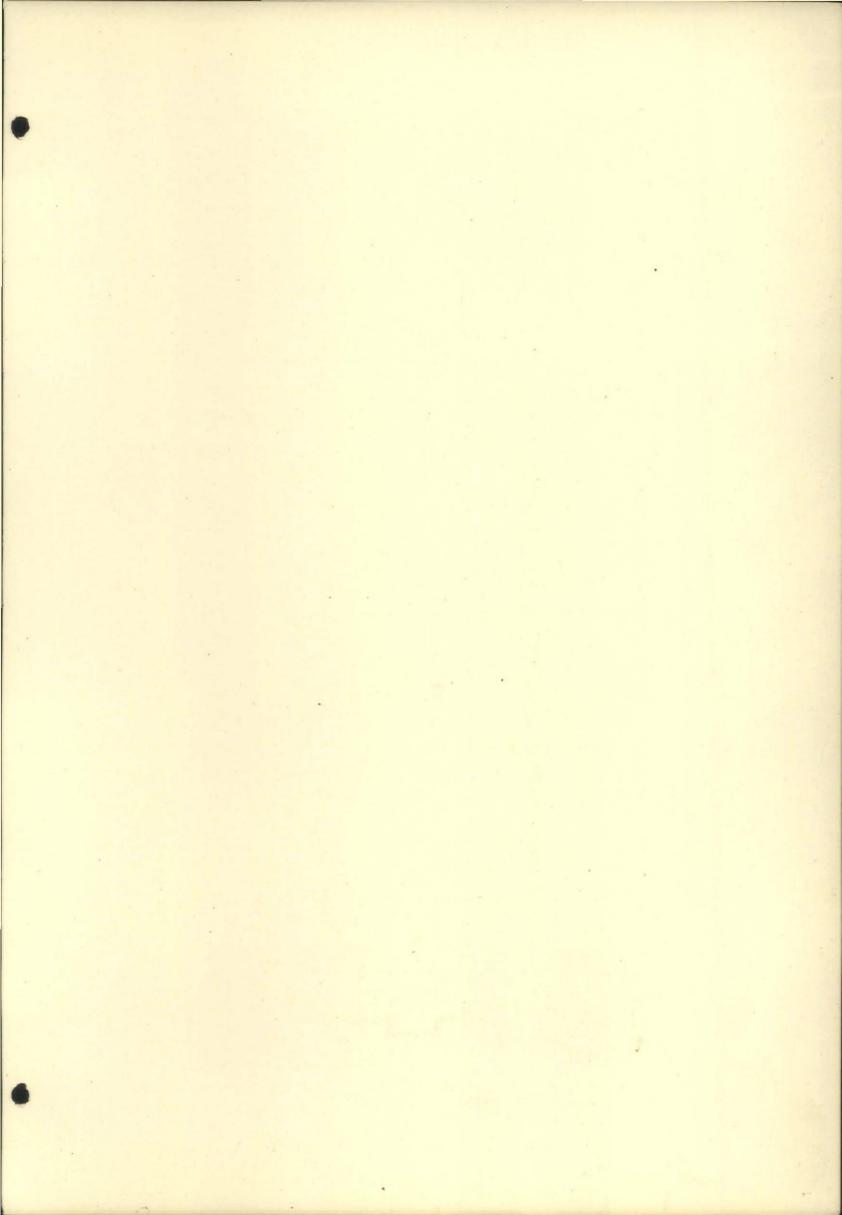
FRESHMAN DORMITORIES
PRINCETON UNIVERSITY, PRINCETON, N. J.

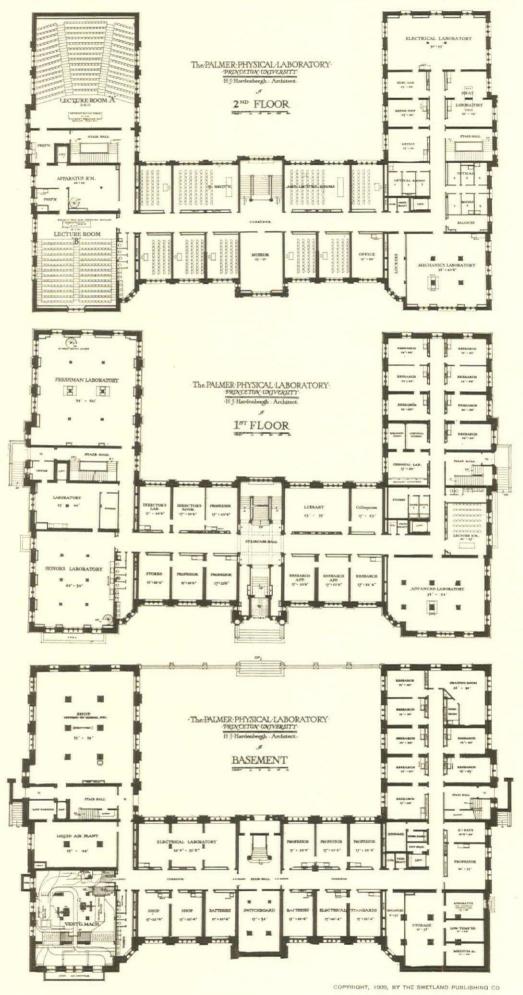


THE PALMER PHYSICAL LABORATORY PRINCETON UNIVERSITY, PRINCETON, N. J.

MR. H. J. HARDENBERGH ARCHITECT

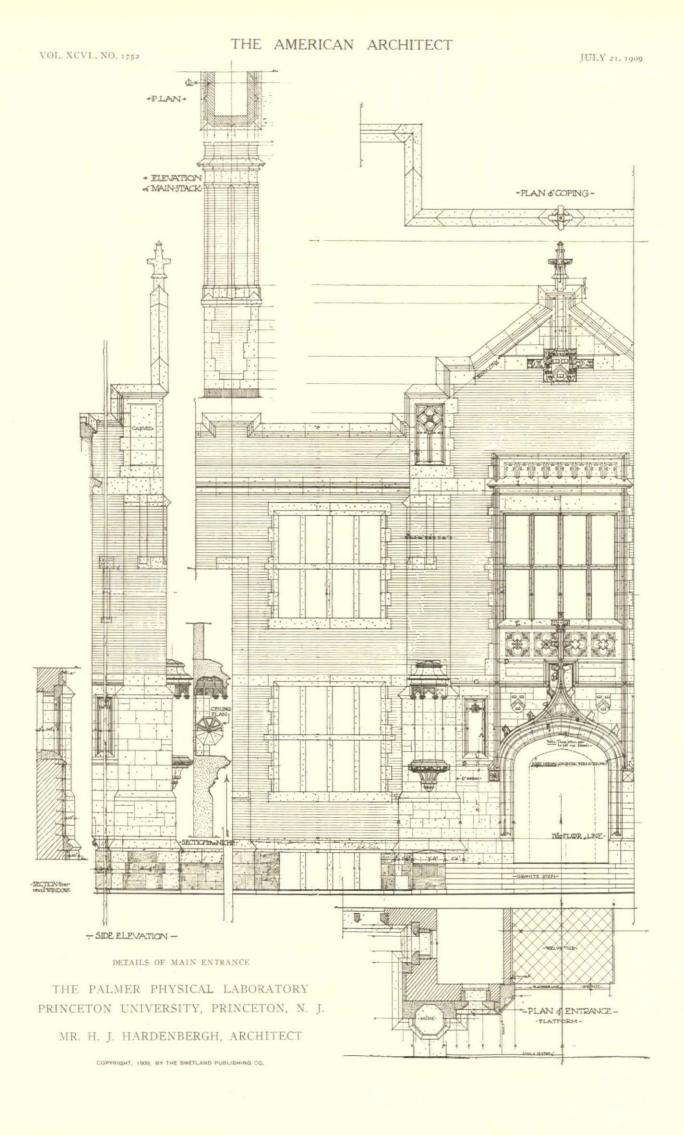






THE PALMER PHYSICAL LABORATORY PRINCETON UNIVERSITY, PRINCETON, N. J.

MR. H. J. HARDENBERGH ARCHITECT



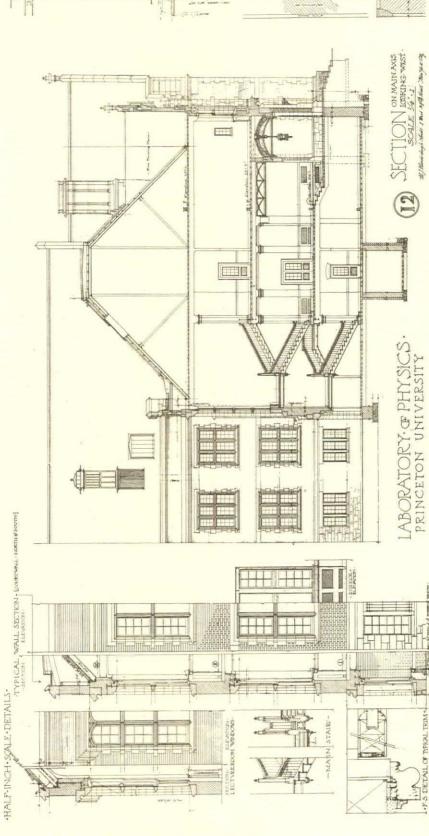


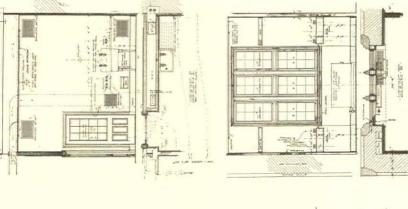




JULY 21, 1909

VOL. XCVI., NO. 1752



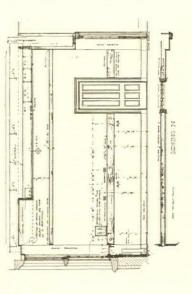




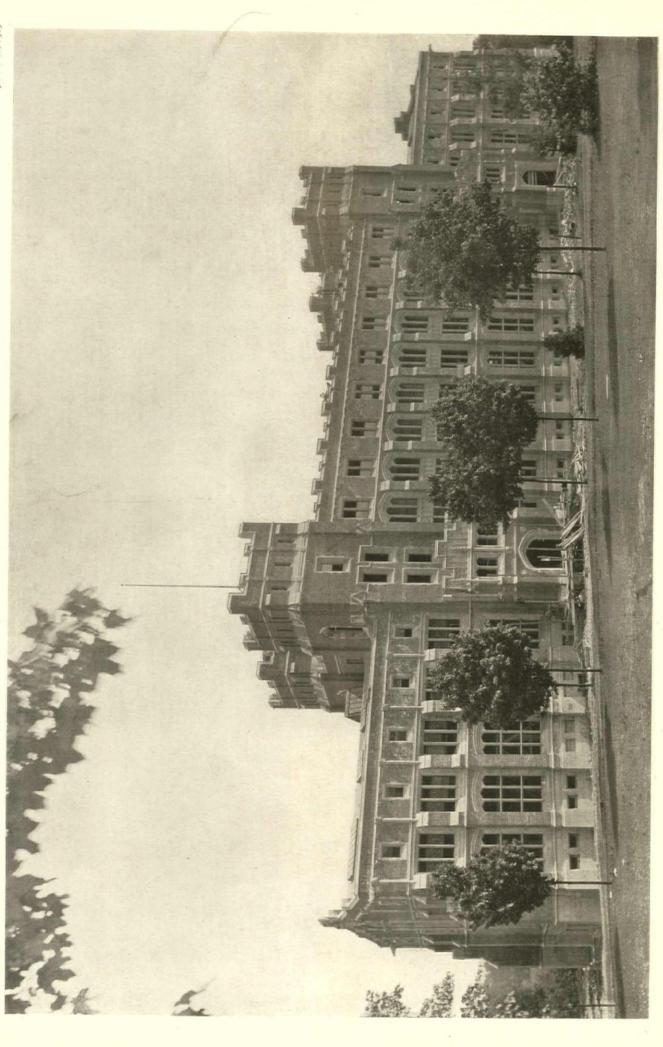
SECTIONS AND DETAILS OF TYPICAL LABORATORY EQUIPMENT

MR. H. J. HARDENBERGH, ARCHITECT

MANUAL S

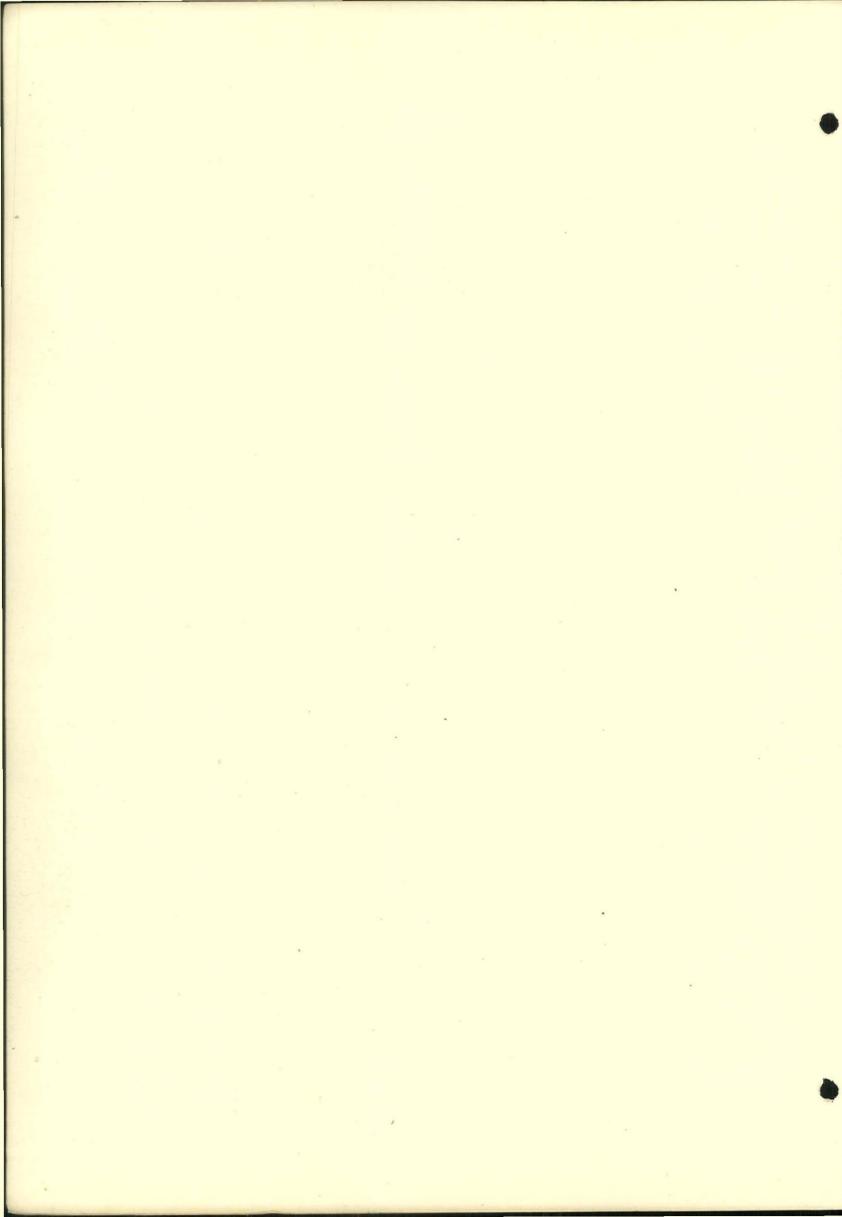


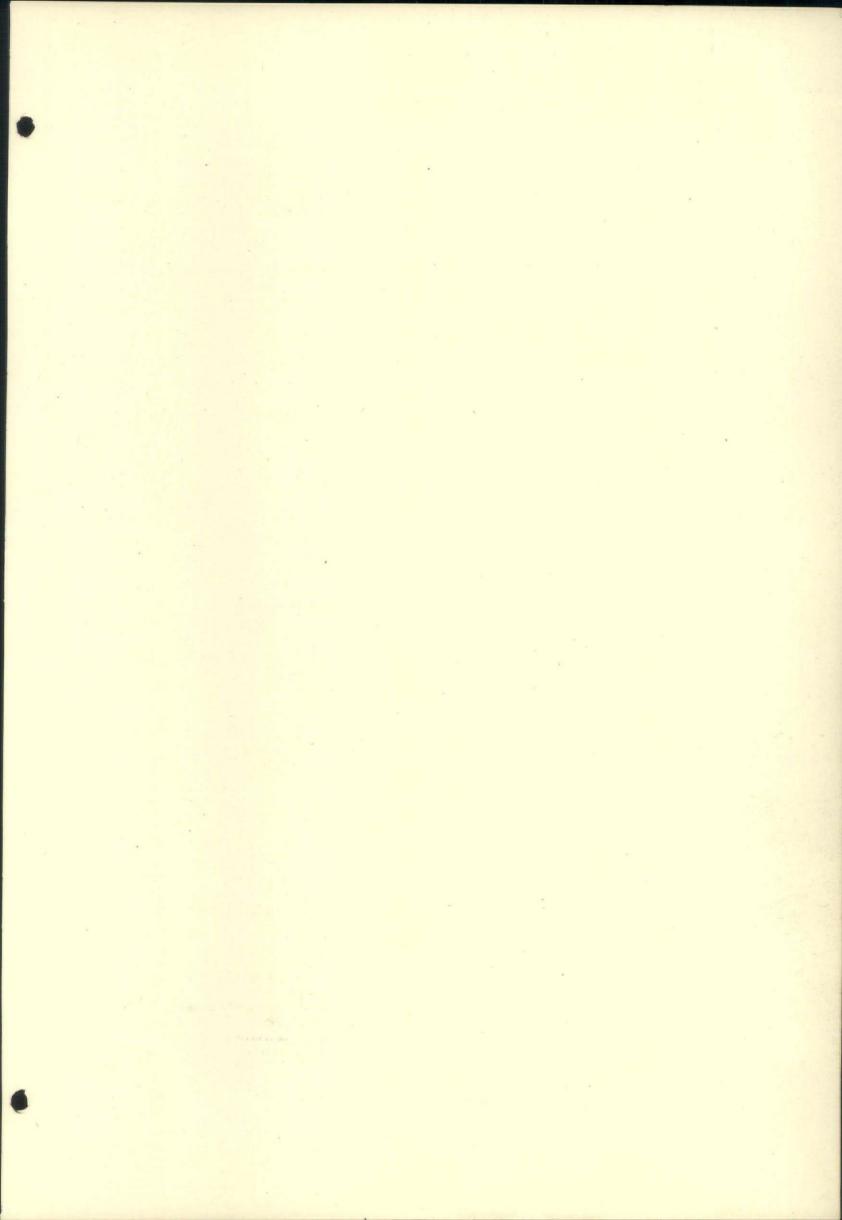
COPYRIGHT, 1909, BY THE SWETLAND PUBLISHING CO.

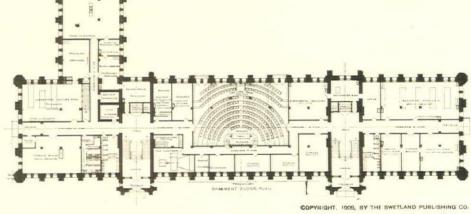


GUYOT HALL (BIOLOGY AND GEOLOGY BUILDING) PRINCETON UNIVERSITY, PRINCETON, N. J.

COPYRIGHT, 1930, BY THE SWETLAND PUBLISHING CO.
MESSRS. PARISH & SCHROEDER
ARCHITECTS







GUYOT HALL, PRINCETON UNIVERSITY, PRINCETON, N. J.

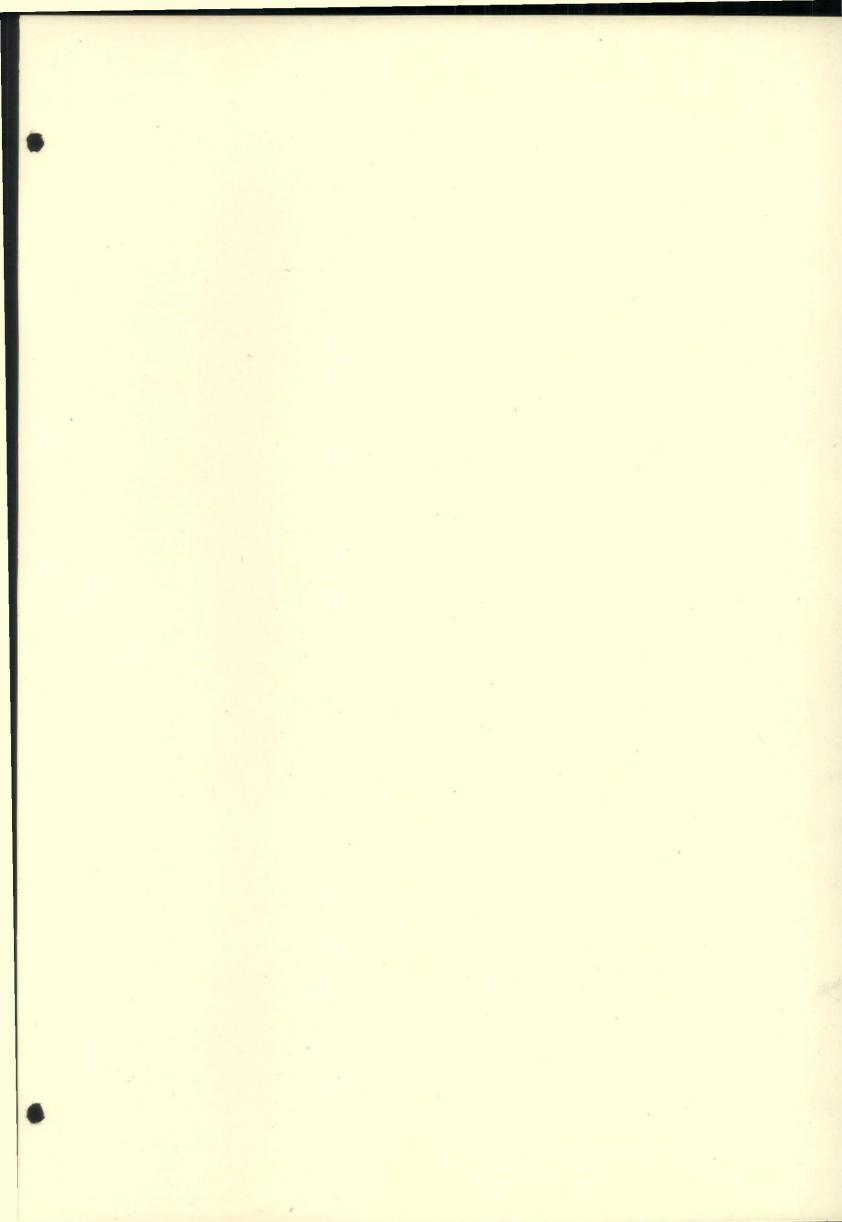
PARISH & SCHROEDER ARCHITECTS

And or 300 Root of E doe door of them? DETAIL OF TYPICAL MAY OF WING NORTH ELEVATION BAST ROSS WINDOW EXTERIOR DETAILS OF TYPICAL BAYS SCALE + - 1 FOOT PARISH AND SCHROEDER ARCHITECTS 12 WEST 31" STREET NEW YORK CITY DETAIL OF TYPICAL BAY OF GENTER BUILDING SOUTH ELEVATION BIOLOGY AND GEOLOGY BUILDING PRINCETON UNIVERSITY PRINCETON NJ

COPYRIGHT, 1909, BY THE SWETLAND PUBLISHING CO.

GUYOT HALL PRINCETON UNIVERSITY, PRINCETON, N. J. MESSRS. PARISH & SCHROEDER ARCHITECTS





VOL. XCVI., NO. 1752

GUYOT HALL PRINCETON, N. J.

MESSRS. PARISH & SCHROEDER
ARCHITECTS

## CORRESPONDENCE

Editors American Architect:

Gentlemen—I have noticed with much interest the communication of Mr. Thomas H. Morgan in your issue of June 23, commenting upon your editorial and the letter of "An Old Subscriber" regarding architectural conditions in the South. I agree with Mr. Morgan, that it is deplorable that so many of the talented young men of the South deem it best to go to the larger cities of the North to practice, yet the South is not alone a sufferer in this respect.

This is a condition which obtains the world over. In all walks of life, and particularly in the artistic professions, the talented Frenchman gravitates to Paris, the Englishman to London, the German to Berlin, as surely as the apple falls to the ground.

In like manner the American gravitates to New York. This is a condition which will continue in the very nature of things. What we need here in the South as elsewhere in the "Provinces," is not a crying out against the inevitable, a "baying at the moon," but a hearty effort to meet conditions as they are and their improvement along possible lines. The "licensing of Architects" is by no means a panacea and under that particular phrasing is somewhat objectionable to one's sense of dignity as though one were asked to take out a peddler's license, but as a matter of fact the lawyer does not lose dignity from the fact that he cannot practice unless "licensed" by law, the physician still maintains his dignity although he has to pass an examination as to his capabilities before he is "licensed" to physic his neighbors. As I said in my former communication, the architects license is but "a step in the right direction." I quite agree with Mr. Morgan that "artistic designers cannot be made by law," but surely artistic designers may be protected by law. Any law looking toward their protection is a law in the interest of the general public. In these days of "protection run mad," when even our Democratic Georgia United States Senators are voting for "protection" on lumber, it seems to me that with the proper effort it ought to be possible, as it certainly would be desirable, to pass a proper kind of "license law" for the protection of architects.

Augusta, Ga.

Yours very truly, H. T. E. Wendell.

## CURRENT NEWS

THE A. I. A,'s ANNUAL VOLUME OF CONVENTION PROCEEDINGS.

The official volume of the proceedings of the forty-second annual convention of the American Institute of Architects, held at Washington, D. C.; December 15-17, inclusive, 1908, has just been received. This book has been edited by Mr. Glenn Brown, Secretary of the Institute.

The main features of this convention, which in some ways was the most important, as well as the most interesting gathering of the Institute, were fully reported by the American Architect at the close of the sessions.

This official volume, however, presents much valuable

information not heretofore available, including the addresses delivered at the memorial meeting, held at the same time in honor of the late Augustus Saint-Gaudens. These are printed in full in this volume, which, with the reports of committees and the verbatim reports of the various debates, presents matter of interest to the profession.

THE CHICAGO SCHOOL OF ARCHITECTURE.

The year book (1908-1909) of the Department of Architecture of the Armour Institute of Technology, has been issued, and presents in attractive form examples of student work during the past school year.

The examples illustrated are highly creditable to the school, its instructors and students, and the work accomplished is worthy of commendation.

### Town Planning in Germany.

The deputation of the Housing Committee of the Birmingham City Council, who accompanied the party organised by the National Housing Reform Council to visit Germany in April to study examples of town planing, have reported with reference to their tour. The authorities of the various cities and towns visited by the party made especial provision for explaining the work accomplished in connection with civic planning and development, and facilities were afforded to members of the party to inspect and study all aspects of their municipal undertakings. The cities visited by the party were Cologne, Dusseldorf, Wiesbaden, Frankfort-on-Main, Wurzburg, Rothenburg, and Nuremberg. The report states: "The policy of the German municipalities in purchasing large areas of land, both within the city boundaries and immediately outside, has undoubtedly facilitated their town-planning schemes. It would be practically impossible, because of the enormous cost entailed, for the municipalities of this country to follow the Germans in the laying out of streets of immense width through the already existing towns. but the general idea of their town planning could be adopted in this country without a great deal of alteration to the existing laws. Private interest in Germany is almost entirely subordinated to the interests of the community; but German landowners recognize that in town planning the interests of all parties concerned are studied, and the ultimate effect is that the value of their properties is improved, and much land made marketable which would probably under individual development be of little value."

THE NEW ITALIAN LAW FAILS TO PREVENT THE DESPOILING OF ARCHITECTURAL MONUMENTS.

The stringency of the Italian law relating to ancient monuments and works of art is so severe that it defeats its own object, and it is practically impossible to prevent evasion, so that one is not surprised to hear that columns and capitals from the Temple of Apollo at Metapontum have been appropriated as building material. The neglect of the Italian Government—or perhaps one should say their financial inability—to deal with all the investigations and explorations desirable for the complete elucidation of Italian archæology and art has resulted in the shelving of work in Magna Græcia, and

hence no doubt such vandalism as has now been discovered. However, we understand that the Italian Government are about to take up the work in this part of Italy which they have, dog-in-the-manger-like, refused to allow other nations to undertake.—Architect and Contract Reporter (London).

### SOCIETIES

The fourth annual meeting of the North Carolina Architectural Association was held at Wrightsville Beach, June 26. 'The following officers were elected:

President—Jos. F. Leitner, Wilmington. Vice President—Frank K. Thomson, Raleigh.

Secretary and Treasurer-Franklin Gordon, Charlotte

### PERSONAL

Mr. H. A. Welch, architect, Aspermont, Texas, announces that he has opened offices in that city, where he will practice his profession. Samples and catalogues are desired.

We are advised that the firm of Howard, Insche & Merriam, architects, Capitol Trust Building, Columbus, O., has been dissolved. Messrs. Howard and Merriam will continue business at the above address, while Mr. C. L. Insche has opened offices in the Brunson Building He desires to receive catalogues and samples.

### BOOK NOTE

CRAFTSMAN HOMES. By Gustav Stickley. 200 pp. 8 x 11. Full canvas. Price, \$2.00. New York: The Craftsman Publishing Co.

This work appears to be a reprint in text and illustrations of articles that have been published in various issues of the Craftsman.

It does not seem probable that it will present to the architect any motives with which he is not already familiar and whose merits he has not thoroughly considered. However, it is well, perhaps, to have attention thus centered, and to the lay reader it presents many decorative ideas of the house and its furnishings, which under the guidance of skilled architectural suggestion may be made adaptable to certain requirements.

The preparation of this book has been excellently done.

### INDUSTRIAL

A WHITE STAINLESS CEMENT IS TO BE DESIRED.

In a recent book note in these columns, reviewing a work on the chemistry and physics of building material, it was mentioned that a knowledge of these that enabled the architect to specify and select the many articles that go into the construction of his building was most de-

We are reminded of this by an interesting series of three pamphlets, issued by the Blanc Stainless Cement Co., of Allentown, Pa. These pamphlets refer to the use of this product in structural art, in its application as a stainless cement, and also as to its adaptability in a plastic way in the manufacture of certain decorative

forms to which the ordinary cement has not been thought adaptable.

To the chemist engaged in the experimental side of cement manufacture and having regard for the various uses to which cement might be put, the attainment of a perfectly white stainless cement has been the goal toward which he has labored.

The Blanc Stainless Cement Co. believes it has attained this goal in the manufacture of its white Portland cement, and they present in the pamphlets above referred to illustrations of many buildings of latest construction and of the most pretentious character. It is stated this cement has been used in these buildings and it is claimed has successfully substantiated the qualities enumerated above.

Aside from the stainless characteristics which are set forth as the first of their product, the availability of this cement in the arts and crafts would open up a wide field

Its utilization as a paint or final surfacing of brick and concrete is interestingly explained, and a palette of certain pigments that are best suited to this form of white cement would seem to present to the architect decorative possibilities for both interior and exterior finishes in color of large wall surfaces that are valuable.

The pamphlets are splendidly printed and illustrated examples of the printer's art, and can be had on request.

METAL LATH AND STUDS FOR STUCCO HOUSES.

Among the latest forms of reinforcing metal made by the Trussed Concrete Steel Co., Detroit, Michigan, are Rib-lath and Rib Studs. In an illustrated catalogue recently issued, this company illustrates and describes this reinforcement with special reference to its use in stucco houses.

The adoption of metal for wood in wall construction has resulted in many important improvements, and the form of lath and studs described in this pamphlet sets forth the facts in an interesting and forceful way.

The catalogue referred to is of technical value, as by detail drawings it shows the method to be employed in using rib lath and studs, and it will therefore be found of much value by the architect and builder.

### Plumbing Goods.

The L. Wolff Mfg. Co., whose general offices are at 93 W. Lake Street, Chicago, manufacture an extensive line of plumbing goods.

The many departments and the large number of styles in each would make a single catalogue a book of unwieldy proportions.

In a series of pamphlets, each dealing with a special line, this company aims to keep the architect and builder posted as to their manufacture.

Booklet No. 25 illustrates and describes various styles of plumbing goods, built to anticipate and supply the recuirements of every usual style of equipment to its last

From the completely equipped bath-room to the simplest form of an enameled iron sink, and from the most artistic production in their line to its most utilitarian form, is the wide range described and illustrated in th's pamphlet.

It may be had on request.



Charles Barton Keen, Architect, Philadelphia

# Cabot's Shingle Stains

The Original and Standard, and the Only Creosote, Wood-preserving Stains

Distinguishable by the softness, depth and transparency of their colors, and their durability. No muddy or tawdry colors, no blackening, no washing off.

SAMPLES OF ALL COLORS ON REQUEST

SAMUEL CABOT, Inc., Sole Manufacturer, Boston, Mass.

1133 Broadway, New York

28 Dearborn Avenue, Chicago

# NOT HOW CHEAP MATHEWS NATURAL COLOR ROOFING SLATES BUT HOW GOOD

# **ASPHALT**

FLOORS, ROOFS, SIDEWALK and CARRIAGE WAYS

of Public Buildings, Hospitals, Warehouses, Stables, Cellars, etc., laid with

### VAL de TRAVERS ROCK ASPHALT

Durable, Fireproof and Impervious. For estimates and list of works executed, apply to

The Neuchatel Asphalt Co., Limited, 265 Broadway, New York



### JENKINS BROS. VALVES

are made in Brass or Iron in a variety of types and sizes to meet every condition of service. Standard Pattern, for ordinary pressures. Extra Heavy Pattern, for high pressures. Made of new steam metal; high grade workmanship; interchangeable parts. All genuine bear Trade Mark. Catalog?

Jenkins Bros. 6 New York, Boston, Philadelphia, Chicago

# THE WELSH PROCESS IN MAKING TIN

The methods of Roofing Tin makers in Wales have been handed down in successive generations to the makers of



# SCOTT'S EXTRA COATED

ROOFING TIN

TRADE MARK
SCOTT'S
IX
RECISTERED
HAMMERED
OPEN HEARTH

Right in our own mills we have famous manufacturers who have served their apprenticeship with their fathers and grandfathers at the tin-making trade in Wales. We state authoritatively that SCOTT'S EXTRA COATED is the only tin in America made exclusively by this famous Welsh process. The excess of Sulphur and Phosphorus is eliminated in specially constructed Open Hearth furnaces. The INGOTS are hammered while hot by an 8-ton hammer until every blowhole, impurity and defect is hammered out. In the Bessemer process it is impossible to drive out Sulphur and Phosphorus, consequently Bessemer Tin does not last so long. SCOTT'S EXTRA COATED will last a life time—as long as your building. Write today for Booklet "J," an instructive booklet on Open Hearth, Bessemer and other converting processes.

# FOLLANSBEE BROTHERS CO., PITTSBURG, PA.

Only American Manufacturers Hammered Open Hearth Roofing Tin

# BUILDING NEWS

### ALABAMA

BIRMINGHAM.—Owenton College will expend \$250,000 for improvements, including erection of an \$8,000 gymnasium. G. B. Tarrant, chairman committee.

DECATUR.-The Decatur Column & Furniture Works has purchased property and will make extensive improvements. G. L. Bowles, president.

FLORENCE.—The congregation of the Florence Baptist Church has decided to rebuild church lately destroyed by fire. Rev. Spencer Tunnelles interested.

Tuscaloosa.—The Board of Trade has decided to ask the Alabama Great Southern Railroad to erect a \$25,000 depot.

Tuscaloosa.—Citizens have voted to issue \$30,000 bonds for school improvements.

CALIFORNIA

ALTURAS.-Work will begin at once on proposed \$10,000

Carnegie Library. OAKLAND .- Architects Dickey & Reed have submitted to the Board of Public Works a drawing of the plans for the new fire engine house, which is to be constructed by the city south of

Seventh Street and west of Grove. PASADENA.-Plans are completed for a handsome suburban residence to be built at Oak Knoll, South Pasadena, for W. D. Murphy, Jr., cost, \$15,000.

Plans are being prepared for a one-story frame kindergarten building to be erected on the corner of Wilson and San Pasqual Avenues for the Pasadena Children's Training Society.

Plans are being made for a spacious eight-room mission bungalow to be constructed at Rose Avenue and California Street, near Pasadena, for Chas. F. M. Stone.

SACRAMENTO.—H. E. Pickett, Placeville, has secured a site on

J Street near Twenty-first and is considering the erection of a

SANTA BARBARA.—The State will select a site in this city for proposed manual training school.

SAN FRANCISCO.-Plans have been drawn by C. A. Meussdorffer, the architect, for a six-story and basement apartment house, to be erected on Sutter Street, upon the large lot which was occupied by Sternheim & Co. after the fire. The building will be of brick, and fireproof throughout. Cost, \$75,000.

Dr. Payne is considering the erection of an apartment house. Mrs. E. Chabot has had plans prepared for a three-story building to be erected at once on Powell Street.

### COLORADO

DENVER.—The Enz & Orr Foundry Company has purchased a site at West Colfax Avenue and Recos Street and will erect a large foundry building.

P. P. Blass will erect a modern two-story apartment house at the corner of Seventeenth Avenue and Washington Street.

The Westminster Presbyterian Church, Rev. N. B. Kelley, pastor, is considering erection of a \$10,000 edifice.

### CONNECTICUT

Bridgeport.—Architect C. T. Beardsley, Jr., has completed plans for the extensively remodeling the plant of the Pacific

Iron Works at East Washington and Husatonic Avenues.

Thompsonville.—Architect L. V. C. Fay, Longmeadow Street, Springfield, Mass., is preparing plans for an addition to the North School; \$16,000 is available.

Nathan Asetzky will erect a business block at the southern end of the Houston property at once. A block will also be erected at the northern end in the near future.

WATERBURY.—Plans are being prepared for the erection of a brick block on Bishop Street for James Semzari. It will be four stories high, containing two stores and ten tenements.

### DISTRICT OF COLUMBIA

Washington.-J. J. Nevebs has purchased a plot at the corner of New Hampshire avenue, N. W., and the Rock Creek Road and will erect a handsome apartment house.

Active preparations are being made in this city for the erec-

tion of the Baltimore office building. It will be located in G Street, between Twelfth and Thirteenth Streets, N. W., on the property adjoining the Epiphany Church. It is the intention of the men who are financing the proposition to erect a large office building and make it the headquarters of all of the Baltimore business men who have offices in this city, as well as the Washington branches of Baltimore business houses. Negotiations are being made to secure the property in G Street.

A. F. Gardner, of Massachusetts, has purchased the old Alexander Ray mansion at 1925 F Street and will make extensive improvements.

J. Zarin has purchased a site at the corner of Eighteenth Street and Kalorama Avenue and will erect a four-story \$40,ooo apartment.

Bids will be received until 11 a.m., July 31, for improvements to Building No. 41 at the Navy Yard. R. C. Hollday, chairman of Bureau of Yards and Docks.

### GEORGIA

ATHENS.—The Lucy Cobb Institute has decided to expend \$12,000 for improvements, including erection of gymnasium building.

MACON.-P. E. Dennis, architect, has drawn plans for a Y. W. C. A. building to be erected on the Wesleyan College grounds at once.

# ILLINOIS

CHICAGO.—Holabird & Roche have prepared plans for the erection of a four-story building at the corner of Michigan Avenue and Twenty-fifth Street. Cost, \$100,000.

The Chicago Training School for City, Home and Foreign Missions has purchased a site at the corner of Prairie Avenue and Fifteenth Street and is considering the crection of an addition to the school.

Jas. E. Tlew is considering the erection of a four-story and basement reinforced concrete fireproof building on Wabash Avenue near Twenty-second Street. Cost, \$70,000.

E. B. Shaw has purchased a site on Sheridan Road and will erect a high-grade apartment building.

Evanston.—C. H. Thompson has secured the property formerly occupied by the Evanston Industrial School for Girls. Building will be torn down and ten residences erected. Cost, \$10,000 each.

MAYWOOD.—The Theological Seminary of the Evangelical Lutheran Church which recently sold its property at Addison and Clark Streets, Chicago, has secured a tract at Harrison Street and Ninth Avenue, this city. Over \$150,000 will be expended within two years on new buildings.

Ottawa.-James R. Hobbs will erect a large four-story building at Clinton and Ottawa Streets. Cost about \$45,000.

### INDIANA

Frankfort.—Bids will be received until 10 a. m., July 29, for the erection and completion of a frame school house in District No. 5. Geo. S. Boyer, trustee Sugar Creek Township.
INDIANAPOLIS.—The Merritt Place M. E. Church, to be

built in the near future, will take the place of the California and Blackford Street M. E. Churches, and will cost between \$15,000 and \$20,000. C. H. Werner is interested.

LAPORTE.—It is planned to erect a \$75,000 hotel on Michigan Avenue, north of the Coliseum. Ernest Schoef is promoting the enterprise.

PERU.-Bids will be received until I p. m., July 28, for the erection of a school building; separate bids for heating and ventilating, plumbing and electric wiring. Griffith & Fair, Bass Block, Fort Wayne, architects. Jos. A. Faust, secretary Board of Education.

South Bend.-Major Brothers will at once erect a new packing house at their present plant on Logan Street.

### KANSAS

HUTCHINSON.—The plans for the new I. O. O. F. building have been approved by Reno Lodge No. 99, and notice given to advertise for bids on the proposed structure, which is to be



# VARNISHING

DONE WITH BERRY BROTHERS' CELEBRATED VARNISH

# LIQUID GRANITE

produces a finish, which for durability, is without an equal. This Varnish has for years been the leading Varnish on Floors, Stairways, Balustrades, Window Sills and Seats, Bath Rooms, etc., or wherever the wear is greatest, and its reputation for withstanding hard usage has made its fame wide spread. Architects will do well to consider Liquid Granite in their specifications.

# BERRY BROTHERS, Limited

Varnish Manufacturers

DETROIT

Established 1858

NEW YORK, 262 Pearl St. BOSTON, 520 Atlantic Ave. PHILADELPHIA, 26-28 North 4th St. BALTIMORE. 29 South Hanover St. CHICAGO, 25 Lake St. CINCINNATI, 420 Main St. ST. LOUIS, 112 South 4th St. SAN FRANCISCO, 666-668 Howard St.

built at the corner of Sherman Avenue and Washington Street. It is planned to have the home ready for occupancy by the first

LEAVENWORTH.—The Catholic schools of Leavenworth are to be supplemented by a high school, practically equivalent to the public high school, according to the plans announced by Father B. S. Kelley, rector at the Cathedral of the Immaculate Con-The plans of Father Kelley include a high school for Kansas City, Kan., in connection with the parochial schools.

PITTSBURG.—Bids will be received by the Building Committee of Sunflower Aerie, No. 123, F. O. E., for remodeling the Eagle

Hall. C. W. Moore, chairman.

### KENTUCKY

LOUISVILLE.—The School Board has purchased a site at Twenty-sixth and Kentucky Streets and will erect a fine school building.

Bids will be received by the Board of Tuberculosis Hospital, Menifee Wergman, Columbia Building, secretary, until noon, July 31, for the erection of buildings at Waverly Hill. J. J. Jaffney, architect.

### MARYLAND

BALTIMORE.—John Miller will erect eleven modern two-story dwellings on Twenty-third Street at a cost of about \$20,000. L. G. Hopkins, architect.

F. J. McCloskey will erect a hotel and restaurant at Pennsylvania and Fulton Avenues. Cost, \$12,000. J. F. Gerwig, archi-

Dr. W. J. Tetz has purchased a site at corner of Pimlico and Steele Roads and will shortly begin the erection of a handsome

Thomas O'Neil has purchased a large tract on the Severn River, between Cool Spring Cove and Chase's Creek, and will erect a handsome residence.

L.W. Waltz has secured a residence on St. Paul Street and will make improvements.

John F. Carter will erect twenty two-story brick dwellings on Braddish Avenue. Cost, \$25,000.

R. F. Kaehler has announced that he would at once begin the erection of an up-to-date salesroom and garage to cost \$25,-000. Plans for the building have been practically decided upon and the deal for the lot upon which the new building will be erected has been closed.

Plans for the erection of thirteen two-story brick dwellings on Lexington Street, near Payson, for Pliny P. Day, have been completed by Architect Jacob F. Gerwig, and work on their construction will begin immediately.

Plans for the five-story building to be added to the City Hospital have been revised by Architect F. E. Tormey. The change in the plans only affects the construction of the basement and steel work of the proposed building.

### MASSACHUSETTS

Boston,-Mrs. Nathaniel Thayer is at the head of a coterie of Boston women who are considering the erection of a clubhouse in the Back Bay district.

LYNN.-The Lynn Storage Warehouse Company, which owns and operates the large building for storage purposes, located on Pleasant Street, is soon to erect another building of similar design and construction for its rapidly extending business. The new building will be of reinforced concrete and almost identical in size and dimensions as the present storehouse and will be

located next to the present property.

New Bedford.-Revised plans for the proposed classical high school on the Morgan lot on County Street for the building of which \$425,000 has been provided by Council, are now in the hands of Superintendent of Buildings Joseph L. Gibbs, whose approval must accompany them to Council before they can be accepted and submitted to contractors for proposals on the contract.

SALEM.—Bids for the alterations of the old Registry of Deeds and Probate Court House and of the Court House will be received by the County Commissioners until 10 o'clock a. m., of Friday, July 23. J. P. Hale, clerk.

### MINNESOTA

FORT SNELLING.—Bids will be received until II a. m., July 27, for the construction, plumbing, heating, electric wiring and fixtures of an addition to post hospital. Capt. R. C. Croxton, Constructing Quartermaster, Army Building, St. Paul.

### NEW JERSEY

East Orange.-Hyman Rosensohn, Newark, has drawn plans of a two-story brick addition, to be used as a work shop and dwelling, and to be located at 71 Main Street. The owner is to be D. Karl. The estimated cost is \$3,000.

FLORENCE.—Architect Chas. Green has prepared plans for a school house to be erected at Florence Station. Bids will be

called for in a few days.

JERSEY CITY.—The trustees of the University of New Jersey, a college of pharmacy situated at Clinton and Jackson Avenues, have purchased the property at the northeast corner of Clifton Place and Summit Avenue, known as the Halliday property, where buildings will be erected for schools of pharmacy, medi-

Abram and Benjamin Gorlin have purchased land on Jackson Avenue and will erect a three-story \$80,000 building.

Architects and engineers Morrison & Carrier, 47 West Thirtyfourth Street, Manhattan, are preparing plans for Schackow & Cohen, of 284 Third Street, Manhattan, for the construction of two apartment buildings on Mercer Street. The cost of the buildings will be \$60,000, and the plans are now ready for

Frank Grad has drawn plans for the two-family frame dwelling Max Schilfenhaus will erect at 373 Eckert Avenue. It will

be two and one-half stories high and will cost \$6,000.

Lambertville.—Architect W. W. Slack, Trenton, is taking

bids on a three-story brick memorial hall for the St. Andrew's P. E. Church. Cost, \$10,000.

MOUNTAIN VIEW.—The State Railroad Commission has

decided to allow the Lackawanna Railroad to build a new station

at this place in accordance with its plans.

NEWARK.-Gustavus Staehlin has designed the building of brick construction to be located on the southeast corner of Jefferson and East Kenney Streets by Gottfiried Krueger. Cost, \$12,000.

Dr. George Reichstetter will erect a brick garage in Whitney Street, near South Orange Avenue, after plans by Julius Strombach. It will be one story high. Estimated cost is \$9,000.

ORANGE.—Mrs. Isabella A. Williams will erect a \$23,000

apartment house on Webster Place.

Roosevelt.-Architect Michael B. Silberstein, of Newark, has prepared plans for a new synagogue to be erected in this city at a cost of \$10,000, for Congregation Adas Yishuran.

SHORT HILLS.—Hopkins, McEntee & Speers, architects, 217 Havermeyer Street, Brooklyn, N. Y., have prepared plans and will take estimates about August 1 for three residences for Stewart Hartshorn. Cost, \$30,000.

TRENTON.-S. Baron, Atlantic City, is having plans drawn by a local architect for the erection of a three-story apartment house and store at Mulberry Street and Klagg Avenue. Cost, \$10,000.

### NEW YORK

AUBURN.—The Board of Education is considering plans for a grade school.

Brooklyn.-Mrs. J. B. Woodward will expend \$10,000 on improvements to property at corner of Jay and Sand Streets.

Abraham Serota will erect two three-story brick stores and

dwellings on Albany Avenue at a cost of \$16,000.

David Simon will erect two four-story \$30,000 apartments on

Dwight Street. Chas. Infanger, architect.
Architects A. J. and J. T. McManus have filed plans for the erection of sixteen three-story tenements on Sixty-first Street. Cost, \$240,000.

Morris Schwartz will erect a two-story, \$6,000 dwelling on East Thirty-first Street. Cohen Bros., architects.

BUFFALO.—Bids will be received until 11 a. m., July 26, for remodeling the Varden Building at Franklin and Church Streets. F. G. Ward, Commissioner of Public Works.

BUFFALO.-Martin C. Miller, of this city, was the successful architect in the competition for plans for the proposed new Technical High School to be built on the site of the Broadway Armory. Cost about \$411,000.

GLOVERSVILLE.—Architect F. L. Comstock, 31 W. Fulton Street, is preparing plans for a three-story addition to factory. GOUVERNEUR.—A. S. Whitney will erect a \$20,000 marble block

on John Street.

# -INTERLOCKING-RUBBER TILING





For Quality



5-16 **TYPE** 

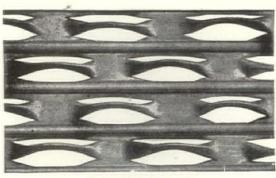
3-8 TYPE

Send for our New Illustrated CATALOGUE and SAMPLES

# The Goodyear Tire & Rubber Co.

Headquarters Tiling Department 1914 Broadway, New York City Factory and Executive Offices Akron, Ohio

"Truss Loop"
Metal Lath
has all others
beaten to a
"frazzle"



Patented Sept. 29th, 1908

This is no idle talk—the proofs that this is so are right here at your call awaiting your request to "send 'em."

"TRUSS LOOP" Metal is an innovation in Metal Lath; it has features that are wholly distinct in themselves and that fact makes "TRUSS LOOP" the supreme product it is.

The use of "TRUSS LOOP" Metal Lath means economies from start to finish. It is not costly initially; it requires less plastic covering; less labor cost for erection; less cost for spacing supports. It holds the covering absolutely—there is a clinch for the mortar that no other Metal Lath affords—it isn't thick and clumsy, and, while it is of extreme rigidity, still it has a flexibility which allows for working evenly around curved surfaces or forms without buckling or kinking. It is everything you could ever hope for in Metal Lath.

Every architect and builder in the United States should get wise to the value of "TRUSS LOOP." We'll afford every facility for any investigation you care to set on foot. For your own good let us hear from you soon.

The Bostwick Steel Lath Company

206 Gifford Ave.,

Niles, Ohio

LAKE PLACID.—The Board of Education has not as yet selected an architect for its proposed two and one-half-story

\$35,000 school. James Shea has matter in charge.

MANCHESTER.—The Manchester Grange Association, William Van Ardsdale, chairman Building Committee, will soon select architect and decide on details of construction of proposed twostory grange hall.

MOUNT VERNON.—The United States Government has selected a site at corner of Union and First Avenue for proposed post

office building.

NEW YORK.-Harris Sokolski will build six-story flats for thirty families adjoining the old Seventh Street Methodist Church, on the southeast corner of Hall Place, in the rear of the old Sixty-ninth Regiment Armory. Architect C. B. Meyers has filed plans for an outlay of \$48,000.

A. J. Schwarzler is planning to build twenty-eight five-story houses on the west side of Clay Avenue and the east side of

Teller Avenue, from 167th to 168th Streets.

S. M. Williamson will build a one-story brick store on White Plains Avenue, near 221st Street, from plans filed by Architect George P. Crosier. Cost, \$10,000.

W. Powers will build a three-story store with lofts on Fifth Avenue, from 125th to 126th Streets. It will cost \$50,000.

W. E. Thompson, architect.

Pickering & Walker, as architects for the 829 Park Avenue Company, of which M. K. Butler is president, have filed plans for new twelve-story apartments on the southeast corner of Park Avenue and Seventy-sixth Street. The house will contain forty-eight apartments. It is to cost \$600,000.

W. Holden Weeks will enlarge the four-story dwelling, 789 Madison Avenue, and make it into a store, with flats on the upper floors, at a cost of \$13,000. Albro & Lindeberg, archi-

Kemp Real Estate Company will remodel the four-story dwelling, 613 Fifth Avenue, to put stores on the lower stories. Cost, \$12,000. Elliot R. Coe, architect.

Hyman & Oppenheim will make over the four-story dwelling, 107 East Sixteenth Street, into lofts, from designs by C. B.

Meyers. Cost, \$15,000.

S. B. Silleck will build six-story lofts at 510-514 West Twenty-seventh Street, from plans filed by Architect W. W. Pearse. Cost, \$40,000.

The Lehigh Valley Railroad has filed plans for a steel freight platform on the block bounded by Twenty-sixth and Twentyseventh Streets, and Thirteenth and Fourteenth Avenues.

Percy Griffin, as architect for St. Bartholomew's P. E. Church, has filed plans for remodeling the old rectory adjoining the church at Madison Avenue and Forty-fourth Street. The improvements are to cost \$15.000.

Architects Janes & Leo have filed plans for seven-story fireproof flats, without elevators, to be built at 217-219 Thompson Street. The building will contain forty-five apartments, with

stores on the ground floor. Cost, \$70,000.

Bids will be received until 10.30 a. m., July 26, for furnishing all the labor and materials required for repairs to the quarters of Engine Company No. 11, at 437 East Houston Street, and to the quarters of Engine Company No. 29, at 160 Chambers Street, Borough of Manhattan; also for furnishing all the labor and materials required for repairs to quarters of Engine Company No. 73, corner of Prospect Avenue and 152d Street. Nicholas J. Hayes, Fire Commissioner.

The McCarthy estate will erect a business block on South

Salina Street. Merrick & Randall, architects.

F. G. Potter has leased plot at corner of 207th Street and Amsterdam Avenue and will erect a two-story brick building.

Michael Marrone will erect a three-story brick dwelling on Wales Avenue at a cost of \$7,000. Moore & Landsiedel, archi-

Architect T. J. Kelly has filed plans for the erection of a \$6,000 one-story store on White Plains Avenue.

F. Guilliano will erect two four-story flats on Crotona Avenue. Cost, \$50,000. Moore & Landsiedel, architects.

The Volga Improvement Company will erect two four-story flats on Intervale Avenue, near Home Street, at a cost of

Architect Robert La Velle has filed plans for the erection of four three-story brick flats on Bryant Avenue. Cost, \$36,000.

Clinton & Russell, as architects for the Trinity Corporation, have filed plans for new eight-story lofts, to be built on the corner of Hudson and Vestry Streets. It is to cost \$150,000.

Architect John H. Ellinsgard has filed plans for remodeling the old home of General Thomas Eckert, No. 549 Fifth Avenue, into a studio with laboratories. The building will be extended front and rear and raised to six stories. Change will cost

Hyman & Oppenheim will build \$150,000 six-story lofts and stores at Nos. 390 to 396 Fourth Avenue, to replace three old

brick dwellings. Charles B. Meyers, architect.

NORTH WINDSOR.—Architect F. E. Estabrook has completed plans for a school for District No. 1. F. W. Seuff, school trustee.

PEEKSKILL.—Bids will be received July 28, 8 p. m., for the erection of a school building. E. E. Joralemon, Niagara Falls, architect. J. W. Husted, chairman Board of Education.

Syracuse.—Architect C. D. Wilsey has been commissioned by Mrs. E. M. Chryst to prepare plans and specifications for the reconstruction of the residence at No. 240 Shonnard Street into a modern two-family apartment. It is to be finished in hard woods, with all conveniences. The work will be done this sum

### OHIO

Columbus.—Architects Howell & Thomas are preparing preliminary sketches for a fine residence to be built in Glen Echo Park Addition for J. H. Dyer.

The Columbus Citizens' Telephone Company will soon let the contracts for four new branch exchange buildings to cost

about \$150,000.

Architects Marriott & Allen wil soon be ready for bids on the two handsome bungalows to be built on the site of the old Hubbard homestead at High Street and First Avenue.

Bids will be received by Architects Howard and Merriam for a twelve-room residence to be erected on Bryden Road for H.

Phelps.

UPPER SANDUSKY.—Bids will be received until noon, July 29, for the erection and completion of a school building at Third and Bigelow Streets. Marriott & Allen, 20 East Broad Street, Columbus, architects. Willis P. Rowland, clerk Board of Education.

### OKLAHOMA

Сніскаѕна.—The Board of Regents has adopted the plans of Architects Smith & Parr, McAlester, for the \$100,000 girls' industrial school. John L. Mitch, secretary.

Chilocco.—The Commissioner of Indian Affairs, Department of the Interior, Washington, D. C., has rejected the bid received for the construction of school buildings and assembly hall at the Chilocco School.

OKLAHOMA CITY.—The School Board has rejected all bids for the construction of a new school building south of the Frisco tracks and for the completion of the Putnam Heights School; bids will be asked again.

### PENNSYLVANIA

ALLENTOWN.—The Salem Reformed Church, Rev. Theodore F. Herman, 221 North Seventh Street, pastor, has invited competitive plans for a \$50,000 church.

GREEN RIDGE.—The Modern Woodmen of America will erect a club house at the corner of Washington Avenue and Green

Ridge Street. Cost, \$40,000. Taylor Lacey, architect.

Homestean.—A site at the corner of Ninth Avenue and Amity Street has been secured for the proposed post office

Morrisville.—The Board of Education has decided to erect an addition to the Wm. E. Chase public school at a cost of

PHILADELPHIA.—Thomas Killough will erect four three-story houses on Fifty-first Street and two on Locust Street. Total cost \$21,200.

H. P. Schneider is preparing plans for an auditorium for the Holsey Colored Methodist Episcopal Church on Hunting Park east of Germantown Avenue.

F. C. Michalson will build two two-story houses on Knox Street, Germantown, at a cost of \$10,000.



F. M. Ellis Architect Omaha, Neb.

U. S. NATIONAL BANK Omaha, Neb.

John Gwin, Builder, Omaha, Neb.

Nebraska Cut Stone Co. Cut Stone Contractors Omaha, Neb.

### MR. ARCHITECT:

The common error in writing specifications for CUT STONE WORK is made in merely calling for BEDFORD STONE.

This is too broad as it will admit any so-called BEDFORD STONE. For your own protection as well as that of your client, you should close your specifications in this respect calling only for OLD HOOSIER STONE.

OLD HOOSIER STONE is produced only from the HOOSIER QUARRY of THE BEDFORD QUARRIES CO.

The price of OLD HOOSIER does not fluctuate.

CORRESPONDENCE SOLICITED

# THE BEDFORD QUARRIES COMPANY

204 Dearborn Street Chicago, III. 1 Madison Avenue New York, N. Y. 818 Euclid Avenue Cleveland, 0. Jacob Neiman will build eight two-story stores and dwellings

on Sixteenth Street. Cost, \$18,000.

PITTSBURG.—The Central Board of Education instead of securing rooms for high school classes in the Lincoln, Howard and Riverside school buildings will begin immediately the erection of a temporary building as an annex to the Central High School on Bedofrd Avenue.

The Liberty Manufacturing Company has had plans made by Architect Hannah of a two-story brick and steel frame building, to cover 100 x 105 feet at Susquehanna Street and Dallas Avenue, East End. It will be an addition to the company's present plant and is to cost \$15,000.

The National Boarding Stables Company has leased property at Walker and Ross Streets and will make extensive improve-

ments.

Architect S. F. Heckert is receiving estimates on the erection of a four-story brick apartment house on Southern Avenue and Griffin Street, for J. S. Schuckert & Bro.

Architect J. L. Neal has plans of a three-story theater, 40 x 76 feet, to be built at Kittanning for G. W. Reese; also plans of a \$15,000 residence to be built at Beaver for E. S. Weyand.

The Union High School Board of Directors, composed of the members of three school boards of East Pittsburg, Turtle Creek and Wilmerding boroughs, has decided to issue bonds to the amount of \$28,000 for the purpose of erecting a high school building.

SCRANTON.—The plans for the new Lackawanna Railroad freight station, as drawn by F. J. Uies, the company's architect,

have been adopted by the officials of the road.

The special committee, authorized by the School Board to select an architect for the proposed new administration and school building to be located on the Laverty plot on North Washington Avenue, has chosen Percy J. Morris, of Washington Avenue.

Washington.—The Citizens' National Bank will erect a handsome bank building in the near future on Main Street.

### SOUTH CAROLINA

Spartanburg.—The Church of the Advent has decided to erect a parish house. Rev. W. H. K. Pendleton, pastor.

### TENNESSEE

Chattanooga.—Bids will be received July 31 for erection of a three-story building and additions, at a cost of \$25,000. J. G. Barnwell, 714 Georgia Avenue, architect.

ERWIN.—Bids will be received by the Commissioner of Fisheries, Department of Commerce and Labor, Washington, D. C., until 2 p. m., on August 16, 1909, and then opened, for the construction of a fish hatchery at Erwin, Tennessee.

MEMPHIS.—J. F. Hill and Robert Fagin have purchased property and will expend \$12,000 in remodeling into a sanitarium.

Memphis.—The commissioners who will represent the city in the building of the new Central Police Station and Fire Hall, costing \$260,000, have engaged the firm of Shaw & Pfeil as official architects.

Alderman Murphy has presented on its first reading ordinance appropriating \$108,300 for the building of a high school.

### TEXAS

ALPINE.—A. O. Watson, Austin, has completed plans for proposed \$27,500 school.

Brownwoop.—The Citizens' National Bank and Rev. J. S. Chapman have decided to tear down buildings damaged by fire and erect better ones. Plans are being prepared.

DALLAS.—St. Edward's Catholic Church will erect a \$30,000 brick edifice. Rev. Joseph P. Lynch, pastor.

HOUSTON.—The Hafner & Lothman Company, of St. Louis, is back of a proposition to establish an immense sash and door factory at Brunner.

The committee having in charge the plans for the erection of proposed auditorium is considering the recommending of a building to cost at least \$200,000.

PADUCAH.—L. W. Ray, Oklahoma City, is interested in the erection of a 10,000-capacity brick plant.

E. D. Goodwin will erect a three-story, sixty-room hotel.

The Paducah Bank, L. W. Fry, president, will erect a two-story bank building on Backus Street.

San Angelo.—All bids for the construction of the U. S. Post Office building have been rejected as being excessive by Jas. Knox Taylor, Treasury Department, Washington, D. C., supervising architect.

San Antonio.—The Southwestern Insane Asylum has selected A. B. Ayres, Oppenheimer Building, to prepare plans for two additional three-story wings to building; also two two-story structures for tubercular patients; \$130,000 is available.

### UTAH

SALT LAKE CITY.—Hale & McDonald, architects, have completed plans for the erection of an addition to the Alta Club House.

The C. H. Deere estate, owners of the property on State Street, near Victoria Avenue, will immediately commence the erection of a three-story modern hotel and store building on that site. Plans for the building have been approved and work will begin in a short time. The new building when completed will cost \$22,000.

Plans are being drawn for the erection of a new \$25,000 orphans' home at Tenth South and Twelfth East Streets. The building is to be constructed under the direction of the Orphans' Home and Day Nursery Association.

### VIRGINIA

ALEXANDRIA.—The local lodge of Elks will soon begin the erection of a \$25,000 club house at the corner of Prince and Royal Streets.

DISPUTANTA.—The Blackwater and Templeton districts have not as yet selected an architect for the erection of proposed \$7,000 school building. A. N. Cocks is interested.

FORT MONROE.—Bids will be received until 10 a.m., August 2, for repairs and general alterations to three old buildings. Capt. Ernest R. Tilton, Constructing Quartermaster.

Hampton.—Plans are being prepared by Ludlow & Peabody, architects, 12 West Thirty-first Street, New York, for a two-story building for the Hampton Institute.

NORFOLK.—The Building Committee has rejected all bids received for the erection of the new Christian Church at Washington and County Streets.

### WASHINGTON

SEATTLE.—R. V. Ankemy will erect a three-story hotel and store within a year at the corner of Pine Street and Terry Avenue.

Plans have been completed for the erection of a four-story \$40,000 brick and concrete college building at Adelphia College.

Plans are almost completed for the construction of the new \$40.000 church of St. Mary's Roman Catholic congregation at Twentieth Avenue and Lane Street. It is to be of the old Gothic style of the thirteenth century, with perforated tower construction, the materials comprising brick, concrete and terracotta.

TACOMA.—Potter & Merrill are taking figures on the erection of a three-story store and hotel building at the corner of South Eleventh and D Streets. The property is owned by West & Wheeler, of Seattle, and the estimated cost of the new structure will be about \$40,000.

### WISCONSIN

MILWAUKEE.—Architect Charles L. Lesser has prepared plans for a combined bakery, store and flat building to be erected on the south side of National Avenue, near Twenty-first Avenue, for John Williams at a cost of \$8,000.

Architect H. W. Buemming has prepared plans for a threestory stable building to go up at Cass and Huron Streets for the American Express Company. The same architect also has prepared plans for a two-story residence to be built for Dr. C. A. Conrad on Prospect Hill.

Oshkosh.—The First Congregational Church will at once begin the erection of proposed \$50,000 edifice.

### WYOMING

FORT D. A. RUSSELL.—All bids have been rejected for the construction of one four-set officers' quarters and one administration building.

# WHAT WHITENESS MEANS

Every architect knows that whiteness is the positive proof of quality in pure carbonate of lead.

Carter White Lead is the whitest pure white lead you can buy. Other leads are gray by comparison—compare for yourself and see. This supreme whiteness means exceptional purity. It means that the modern Carter process has eliminated every particle of discoloration and impurity.

# CARTER Strictly Pure White Lead

is finer than other leads—the reduction of the metallic lead is perfect.

This fineness makes Carter spread farther, just as a cup of flour will spread farther than a cup of wheat. It means economy in painting.

Whiteness means even quality. Every ounce in every keg of Carter is just like every ounce in every other keg.

Every architect should have a copy of our free booklet, "PURE PAINT" with set of modern color schemes showing several houses in different styles of architecture decorated in colors. Send for this booklet and also authorize us to send you a free sample of Carter that you may test and compare it with other leads.

# CARTER WHITE LEAD CO.

West Pullman Sta. 100 CHICAGO, ILL.

FACTORIES : : : : CHICAGO-OMAHA



"To be sure it's pure look for CARTER on the keg."

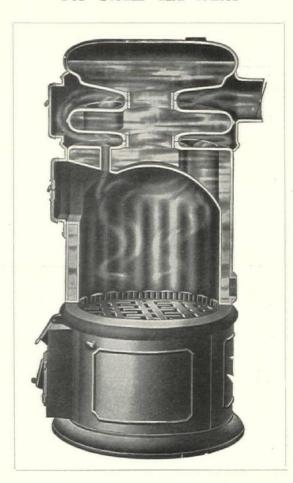




Our New House Heating Boiler

# THE MODERN-IMPROVED

For Steam and Water



This new boiler has many new features that are fully described, in our Blue Book, which we will send to any one interested.

# PIERCE, BUTLER & PIERCE MFG. CO.

SYRACUSE, N. Y.

Manufacturers of Boilers and Radiators for Steam and Hot Water and Sanitary Plumbing Fixtures.

"It pays to procure both Heating and Plumbing Fixtures from one Manufacturer."

### HELP AND POSITIONS WANTED

The rate for advertising under this heading in uniform style, solid type, is 50 cents for 50 words or less, payable in advance. Copy received until 12 m. Monday. Replies may be sent in care of American Architect, 231-241 West Thirty-ninth Street, or 1664 Monadnock Block, Chicago, as advertisers may desire.

### POSITIONS WANTED

A RCHITECTURAL draughtsman, aged 36, married, with fourteen years' experience in the best offices, six years in New York City, would like a permanent position with an architect in a progressive Southern city, to take charge of design and draughting-room end of the business; college-trained and session of study and travel abroad; would prefer to take position where there is chance of future partnership; best references given. Address 51A, care American Architect. (1751-52)

RCHITECTURAL engineer, 27, experienced in architectural draughting, perspective and tinting, estimating and building superintendency, desires position with an architectural firm, where, if satisfactory, he will be assured a permanent position. Address 50C, care American Architect. (1752)

### HELP WANTED

WANTED—An architectural draughtsman, capable of taking full charge of office,

A No. 1 on plan, design and perspective. All classes of work. State salary, experience. Crosby & Henkel, 705-706 Morris Building, New Orleans, La. (1747-&TF)

ORNAMENTAL Iron and Architectural draftsmen needed constantly. Memdraftsmen needed bership \$2.00 per year.

The Engineering Agency, Inc. Monadnock Block, CI (1723&Lf)

WANTED — Architectural draughtsman, around man; capable if desired of eventually taking charge of draughting room of five men. An American and graduate of a technical school preferred. Address, stating qualification and wages, "E. C.," care American Architect, 1664 Monadnock Bldg., Chicago, Ill. (1752)

WANTED—A first-class architectural draughtsman capable of designing, making working drawings from studies and laying out construction. Write stating salary, experience and reference. Address 52A, care American Architect. (1752-1753)

WANTED—An arcitectural draughtsman to take charge of draughting room. Submit specimens of practical draughtsmanship, with references, Address Owsley, Boucherle & Owsley, Architects, Volumerstown, Ohio. (1759) Ohio

WANTED—Experienced draughtsman accustomed to working from sketches. State experience, age, and salary expected. Frost, Briggs & Chamberlain, Architects. Worcester, Mass.

### **PROPOSALS**

Sealed proposals endorsed, "Proposals for New Sewage Disposal System at the New York State Reformatory for Women," will be received by Mr. Franklin B. Ware, State Architect. at the State Architect's office, Albany, N. Y., up to 12 o'clock, noon, on the 1st day of August, 1909, when they will be opened and read publicly. Proposals shall be accompanied by a certified check in the sum of \$300, and the contractor to whom the award is made shall be required to furnish a surety company's bond in the sum of \$3,000. The right is reserved to reject any and all bids. Drawings and specifications may be consulted and blank forms of proposals obtained at the New York State Reformatory or of the State Architect. Complete plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of the State Architect, Mr. Franklin B. Ware, Albany, N. Y. (1750-51-52) Sealed proposals endorsed, "Proposals for

Treasury Department, Office of the Supervising Architect, Washington, D. C., June 29, 1909.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 5th day of August, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of the U. S. Post Office at Gonzales, Tex., in accordance with drawings and specifications, copies of which may be obtained from the Custodian of site at Gonzales, Tex., or at this office, at the discretion of the Supervising Architect.—James Knox Taylor, Supervising Architect. (1751-52)

# WE LIGHT CHURCHES

pleasantly, economically and effectively. 25,000 Churches have installed our reflectors and fixtures. Particulars on request. Write us.

I. P. FRINK, 551 Pearl Street, NEW YORK

THE AMERICAN ARCHITECT'S Book Department is prepared to furnish any architectural work now in print on short notice. Our book advertising, appearing from time to time, will keep you posted. All inquiries promptly answered. THE AMERICAN ARCHITECT, 231-241 W. 39th St., New York.

### UNIVERSITY OF PENNSYLVANIA

SCHOOL OF ARCHITECTURE

FOUR-YEAR COURSE. (Degree B. S. in Arch.) (Architectural engineering may be taken in lieu of advanced design, etc.)

GRADUATE YEAR. (Degree M. S. in Arch.)
(Allowing specialization in design or in architectural engineering, etc.)

SPECIAL COURSE OF TWO YEARS.
(Certificate.) (For qualified draughtsmen;
affording option in architectural engineering.)

COMBINED COURSES IN ARTS AND ARCHITECTURE, by which A. B. and B. S. in Arch. may be taken in six years.

COLLEGE GRADUATES granted advanced

standing.

SUMMER COURSES in elementary and general subjects through standing may be secured.

For full information address: DR. J. H. PENNIMAN, Dean, College Hall, University of Pennsylvania, Philadel, bia, Pa.

### UNIVERSITY OF ILLINOIS

Four-year professional courses in Architecture, in Architectural Engineering and in Architectural Decoration. Special courses for draftsmen and constructors. Excellent library and equipment. University fees nominal. DEPARTMENT OF ARCHITECTURE,

W. I. PILLSBURY, Registrar, URBANA, ILL.

J. W. TAYLOR'S Photograph Series o American Architecture Harrison 3897

324 Dearborn Street, CHICAGO, ILL.

### THE SOCIETY OF BEAUX-ARTS ARCHITECTS

has established

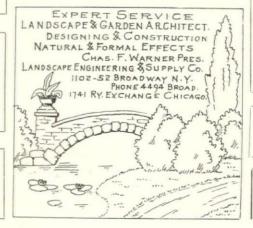
A FREE COURSE OF STUDY

open to draughtsmen and students of any city, modeled on the general plan pursued at the Ecole des Beaux-Arts in Paris, and comprising frequent problems in Orders, Design, Archæology, etc. An annual registration fee of two dollars is required of all students, except those paying tuition at a school of architecture.

For information apply to the Secretary of the Committee on Education, 3 East 33d St New York City.

### PERSPECTIVES RENDERED

In Pen-and-Ink and Water Coler WALTER M. CAMPBELL 8 Beacon Street Boston, Boston, Mass



### WASHINGTON UNIVERSITY ST. LOUIS, MO.

offers a four-year course in Architecture, leading to the degree B. S. in Arch. Admission by examination or by diploma from accredited schools or certificate from other colleges. Qualified draughtsmen admitted as special students.

For information apply to the Department of Architecture, Washington University.

# UNIVERSITY OF MICHIGAN ANN ARBOR, MICH.

DEPARTMENT OF ARCHITECTURE

Four-year course in Architecture and in Architectural Engineering. Draftsmen and others adequately prepared are admitted as special students. For Bulletin describing work, address Dean of Department of En-

### NOTICE OF REMOVAL

E. Eldon Deane, Architectural Colorist, an nounces as enange of address to

6 West 28th Street New York City

Telephone 3236 Madison.

THE AMERICAN ARCHITECT'S Book Department is prepared to furnish any architectural work now in print on short notice. Our book advertising appearing 'r im time to time, will keep you posted. All inquiries premptly answered. THE AMERICAN ARCHITECT, 231-241 w 38th 8t, New York.

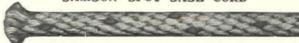
### TO ARCHITECTS

Competition Designs and Perspectives ater Colors or any Brush Medium, expert—assistance on 1 offices by arrangement. ny Ave., Arlington, N. I any distance or at Architec JAMES ADAMS, 725 Kea

# ALPHABETICAL LIST OF ADVERTISERS

A	L
Abbott, A. H. & Co. (o.a.m.)	Lawrence Cement Co. (e.o.w) 19
Adams, James	
American Blower Co 19	Lowe Bros. Co. (o.a.m.)
American Luxfer Prism Co 2 American Mason Safety Tread Co. 16	
American Radiator Co. (e.o.w.) American Steel & Wire Co	M
American Mason Safety Tread Co. 16 American Radiator Co. (e.o.w.). American Steel & Wire Co. 16 Armstrong Cork Co. (o.a.m.)	
Art Metal Construction Co 19	McCray Refrigerator Co 24
Atlantic Terra Cotta Co 20	Monarch Typewriter Co
В	Monument Pottery Co
Bedford Quarries Co	Monument Potterv Co.
Berger Mfg Co. 15	Mueller, H., Mfg. Co. (e.o.w.)
Berry Bros. (e.o.w.) 7 Bird, F. W. (o.a.m.) 8 Blaisdell Machinery Co. 22	Mullins Co., The W. H 24
Blaisdell Machinery Co	Murdock Shaw Co. (e o.w.)
Bradley Mfg. Co., The (e.o.w.)	Diam do (d.d.m.)
Burt Mfg. Co. (e.o.w.)	N
C	National Fireproofing Co 15
Cabot, Samuel, Inc	Never-Split Seat Co
Carter White Lead Co	New York Belting & Packing Co.
Chicago Portland Cement Co 36 Clinton Wire Cloth Co	Northwestern Terra Cotta Co 23
Concrete Column Construction Co. 17	
Couch, S. H., Co. (e. o.w.)	0
Cutler Mail Chute Co 16	Okonite Co. (Ltd.) (e.o.w.) 18 Otis Elevator Co. (e.o.w.)
D	Ous Dievator Co. (c.o.w.)
Dahlquist Mfg. Co	р
Dahlstrom Metallic Door Co 20	
Dean Bros	
Deming Co., The	Pierce, Butler & Pierce Mfg. Co.
Detroit Show Case Co. (o.a.m.) Detroit Steel Products Co	Pray John H. & Sons Co. (o.a.m.)
Dexter Bros	Prescott & Son, J. B
Donaldson Co., The (o.a.m.).	1 Tomosious Biocure Co
Drouve, G., & Co	R
Dexter Bros. 20 Dixon Crucible Co. Jos. 16 Donaldson Co., The (o.a.m.). Drouve, G., & Co. 16 Dunning, W. D. 23 Dwight Lumber Co. (e.o.w.) 24	Raymond Concrete Pile Co 22
	Rendle, Arthur E 18
E East Bangor Consolidated Slate Co.	Richardson & Boynton Co 21 Richter Mfg. Co. (o.a.m.)
(e.o.w.)	Royal Ventilator & Mfg Co 26
Elevator Supply and Repair Co. (e.o.w.). 30 Enameled Steel Tank Co. (e.o.w.).	Rubbertex Cloth & Paper Co.(e.o.w.)
Enameled Steel Tank Co. (e.o.w.).	
Estey Organ Co. (e.o.w.)	Samson Cordage Works
F	Sandusky Portland Cement Co 19
Fisher Co., Robert C	Schreiber & Sons Co., The L 18 Seifert, Frank A., Plastic Relief Co.
French & Co., Samuel H	8 (e.o.w.)
Frink, I. P	
G	Sloane, W J., Co. (o.a.m.). Sloane, W J., Co. (o.a.m.). Smith Co., H. B. (e.o.w.). 17 Society of Beaux-Arts Architects. 14 Stewart Iron Works. 16
Garner Ventilating Co 31	Society of Beaux-Arts Architects. 14
General Fireproofing Co. (e.o.w) Georgia Marble Co	Stewart Iron Works
Globe Ventilator Co	*   St. Louis Fortland Cement Co 30
Goodyear Tire and Rubber Co. (e.o.w.)	T
Gorham Co. (o.a.m.)	1
Grauer & Co., Albert (o.a.m.) Gurney Heater Mfg, Co	Taylor, J. W
	Thomas & Smith (e o.w.)
H P C . ( )	Trenton Potteries Co 36
Hampshire Paper Co. (e.o.w.) Hart Mfg. Co	Trussed Concrete Steel Co
Hart & Cooley Co 2	Tuttle & Bailey Mfg. Co. (o.a.m.)
Hartman & Sanders (o.a.m.) Haves, Geo	1
Hayes, Geo	7 U
Hotel Statler	6 U. S. Mineral Wool Co
	University of Illinois
1	University of Illinois 14 University of Michigan 14 University of Pennsylvania 14
Imperial Brass Mfg. Co 3	5 Oniversity of Femiliay Prairies.
J	v
	5 Vacuum Ventilator Co. (e,o,w) 27
Johns-Manville Co., H. W 2	
Johnson, E. J., Co. (e.o.w.)	5
	w
K	Warner Co., Charles (o.a.m.) 23
Kahn System of Reinforced Con-	Washington University 14
Kasch Roofing Co. (o.a.m.)	Western Brick Co. (o.a.m.)
Kawneer Mfg. Co. (o.a.m.) Keasby & Mattison Co. (e,o,w.)	White Enamel Refrigerator Co 26 Winkle Terra Cotta Co. (o.a.m.)
Kelsey Heating Co. (o.a.m.)	6 Weld Co., Geo. A. (o.a.m.). Western Brick Co. (o.a.m.). White Enamel Refrigerator Co. 26 Winkle Terra Cotta Co. (o.a.m.). Winslow Bros. Co., The (e.o.w.). 33
Kewanee Boiler Co	2 Wolff, L., Mfg. Co
	The state of the s

### SAMSON SPOT SASH CORD



Carefully inspected and guaranteed free from flaws. Send for samples and full information.

SAMSON CORDAGE WORKS -:- -:- BOSTON, MASS. (1)

# Lightning Rods, Weather Vanes

THOMAS W. JONES, 180 Front Street, NEW YORK

National Fire Proofing Co., Manufacturers of Terra Contractors for Construction Fireproof Buildings. You can not be sure that you have either the best or the cheapest fireproofing unless you give us an opportunity to figure on your plans.

Chicago, Commercial National Bank Bldg. Pittsburg, Fulton Bldg. New York Flatiron Bldg. Philadelphia, Land Title Bldg. Washington, D. C., Colorado Bldg. Minneapolls, Minn., Lumber Ex. Boston Old South Bldg. Los Angeles Calif., Union Trust Bldg. St. Louis, Mo. Cleveland, Cuyahoga Bldg. San Francisco, Monadnock Bldg. London Eng., 26 Chancery Lane.

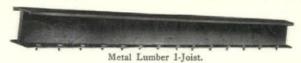
When You Have a Water Supply Problem to Solve

Investigate the

# Kewanee System of Water Supply

See our full page ad in the next or last issue of American Architect, or better still, write for our catalog now.

KEWANEE WATER SUPPLY CO., . . KEWANEE, ILL



# BERGER'S

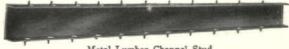
Special metal shapes—Joists, Channels, Angles, etc., to take the place of wood structural members in dwellings and similar structures, also for floors and partition work in larger buildings. Prongs for attaching metal lath are punched out on the members and quickly clinched over the lath with a hammer.

Easily and quickly erected by any good mechanic, as quickly as wood and quicker than reinforced concrete. Cost low as compared with other types of non-combustible construction.

WRITE FOR CATALOG F-9-T

THE BERGER MFG. CO., Canton, Ohio

New York Boston Philadelphia Chicago St. Louis Atlanta Minneapolis San Francisco



Metal Lumber Channel Stud.

FIRE, SOUND and VERMIN PROOF SAMPLES AND CIRCULARS FREE

INSULATOR

U.S. MINERALWOOL CO., NEW YORK



### ELECTRIC PLATE WARMERS

are now specified by all prominent ARCHI-TECTS for high-class RESIDENCES and APARTMENTS. The old-time GAS or STEAM heated Plate Warmer is out of place in modern buildings equipped with modern conveniences. See our adv. on page 21, July 14, 09 issue. Write to-day for illustrated booklet.

THE PROMETHEUS ELECTRIC CO. 234 East 43d Street, New York

## -" DETROIT- FENESTRA''-

# Steel Metal Sash

See our full page advertisement last week or next week in this paper or write to

DETROIT STEEL PRODUCTS CO., Detroit, Mich.

# LOOMIS FILTERS Established 1880 Simple and Effective

Improved System

### LOOMIS-MANNING FILTER CO.

Main Office:

828 Land Title Building, Broad and Chestnut Streets, Philadelphia Boston Buffalo New York Baltimore Washington Chicago

THE architect, the engineer and the owner are protected by

# **DIXON'S SILICA-GRAPHITE PAINT**

—there can be no confusion of different grades, for Dixon's is made in only one quality, the highest standard. Specify Dixon's and you are positively protected against a "cheap" paint.

JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

Established 1830

THE ROBERT C. FISHER COMPANY.

Successors to FISHER & BIRD

MARBLE, MOSAICS and TILING

139th-140th Sts.-Locust Ave. and East River, New York



### VAILE & YOUNG'S Patent Metallic Skylights

Without Putty Construction adapted to all forms and styles of

ghts.

oussands of feet in use have proved its superiorParticularly adapted for Depots, Mills, Factories,
where large and continuous lights are required,
and for Illustrated Catalogue.

214 N. Calvert St., Baltimore, Md.

# MASON SAFETY TREADS

For Stairs, Wood, Iron, Marble or Cement New or old

HUNDREDS OF THOUSANDS IN USE

American Mason Safety Tread Co.,

Boston

# **UFKIN** STEEL TAPES

Are Indispensable for Accurate Work de in all styles and sizes for all classes of w THE UFKIN PULE CO. SEND FOR CATALOG.
Saginaw, Mich., U.S. A. New York London, Eng. Windsor, Canada



### THE LOVELL WINDOW AND SHUTTER OPERATING DEVICE STRONGEST MOST DURABLE—

Closes long lines of windows by a simple movement from a central station.

Operates by a straight push and pullarm. Most logical "quick-close" method for quick fire protection. In use in some of the largest public and private buildings in the country. Send for full description.

THE G. DROUVE CO.

Bridgeport, Connecticut

Kahn Trussed Bars—Hy-Rib Sheathing—Rib Metal—Rib Lath—Rib Studs—Cup-Bars, Catalogues and samples on reduest.

(See our full page[ad, last week and next week.)

TRUSSED CONCRETE STEEL CO., 618 Trussed Concrete Bldg., Detroit, Mich.
Offices in Principal Cities.

# TRIANGULAR MESH CONCRETE REINFORCEMENT

Made by AMERICAN STEEL & WIRE COMPANY

Chicago,

See our ad last week or next week, page 5 New York.

Denver.

San Francisco



# DEMING POWER PUMPS

See Sweet's Index for full; page announcement

Have a first class reputation be-cause they do only that kind of work. Ask for our Catalogue.

THE DEMING COMPANY Salem - - - Ohio



country.

THE STEWART IRON WORKS CO., 1739 Covington St., Cincinnati, O.

All the essentials of Modern Mail Chute Construction are covered by the Cutler patents. Descriptive Circular and Estimates on application.

Cutler Mail Chute Co., Rochester, N. Y.

# **GURNEY HEATERS**

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER THEY GIVE ENTIRE SATISFACTION. SEND FOR CATALOGUE.

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE: 12 E. 42ND ST.

188-200 FRANKLIN ST., BOSTON

WORKS





This is the title of Booklet No. 4-A, telling about CONCRETE LUMBER

and its use in place of wooden forms for all Reinforced Concrete Construction
saving 50% in time, 10% to 40% in costs, and ensuring Perfect Structures—eliminating all danger during or after construction Yours for the asking.



# Concrete Column and Construction Company



605 STEVENS BUILDING, DETROIT





# Dahlowist

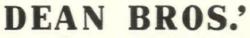
THAT IS THE NAME TO REMEMBER

WHEN YOU SPECIFY BOILERS

# **BOSTON COPPER BOILERS**

Will give satisfaction to you and your client. Our Copper Range Boilers are the best made and every one guaranteed. Let us send you illustrated booklet and price list.

DAHLQUIST MFG. CO., 38 W. 3d St., BOSTON



INDIANAPOLIS, IND.

VERTICAL AND HORIZONTAL **ELEVATOR PUMPS** 

Atlantic Type Boiler Feeders, Water Supply Pumps, Fire Pumps, Electric Pumps, Vacuum Pumps.





Vertical Elevator Pump !

Horizontal Plunger Pump



ORNAMENTS IN STAFF PLASTER AND COMPOSITION FOR INTERIOR EMBELLISHMENT, COMPOSITION AND CEMENT WORK FOR EXTERIOR USE. WE ISSUE TWO VERY COMPLETE AND EXTENSIVE CATALOGS TO ARCHITECTS AND THE TRADE ONLY.

# FRANK A. SEIFERT PLASTIC RELIEF CO.

2623-29 DAYTON STREET, St. Louis

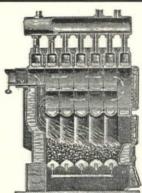


DRAWING INKS ETERNAL WRITING INK ENGROSSING INK TAURINE MUCILAGE PHOTO-MOUNTER PASTE DRAWING-BOARD PASTE LIQUID PASTE OFFICE PASTE VEGETABLE GLUE, Etc.

ARE THE FINEST AND BEST GOODS OF THEIR KIND Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the Higgins Inks and Adhesives. They will be a regulation to you they are a guest plan and will be a regulation to you they are a guest plan and will be a regulation to you they are a guest plan and will be a regulation to you they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and will be a regulation to your they are a guest plan and a gues adhesives and adopt the Higgins Inks and Adhesives. They will be a revelation to you, they are so sweet, clean and well put up, and withal so efficient: They are specially adapted for use in Architects' and Engineers' Offices, as well as for general home and office use:

AT DEALERS' GENERALLY

Chas. M. Higgins & Co., Manufacturers
Branches: Chicago, London 271 Ninth St., BROOKLYN, N. Y.



The H. B. Smith Co.

133-135 Centre St., New York

MANUFACTURERS

STEAM and WATER

# Heating Apparatus

Factory: Westfield, Mass.

ESTABLISHED 1853. for Catalogue.

NEW YORK, PROVIDENCE, PHILADELPHIA.

# URO Idea

Solves the Water Closet Problem

Slant gives the The NATURO Slant gives the erect position—which makes soiling the rim impossible.

The NATURO Seat (higher in front than at rear), eliminates the wetting-the-seat-evil

NATURO Combinations are guaran teed in every way. NATURO Bowls are superior in operation to the old-fashioned kind you know.

NATURO Catalog "C" free for the ask ing. It's worth asking for.



The C. H. Muckenhirn Closet Company, Detroit, Mich.

# PARKER, PRESTON & CO.'S Weatherproof Coating

Creates an impervious coating to Stucco, Cement and Concrete, Plaster

Creates an impervious coating to Stucco, Cement and Concrete, Plaster and Brick Surfaces.

For exterior use: Prevents absorbtion of dampness from rain-storms, and other causes.

Does not fill the pores or affect character of surface. Dries without gloss, producing soft, rich, even color effect.

Ready for use, durable, economical, practical.

Adamant Stucco, Brick and Plaster Coating.

For interior use:
Adamant Cement Floor Coating.
Art in Shingle Stains. (Waterproof and Odorless.)
Waterproof Flat Brick Stains.

Manufactured solely by

PARKER, PRESTON & CO., Inc. New York Office: 25 West 42nd St. Norwich Corp. Norwich, Conn.

# Paradigm Skylights

# Eternal knocking is the price of success!

ARTHUR E. RENDLE

18 West 34th St., New York

(Est. 1881)

The Rookery, Chicago

# OKONITE ELECTRIC LIGHT WIRES

Are pronounced by leading Architects to be SAFE, DURABLE and EASILY ADJUSTED for the inside wiring of PUBLIC and PRIVATE BUILDINGS.

Sole Manufacturers

Willard L. Candee, President H Durant Cheever, Treasurer Geo, T. Manson, Gen'l Supt. Wm. H. Hodgins, Secretary THE OKONITE CO..

TE OKONITE CO

253 Broadway, New York



# - THE L. SCHREIBER & SONS CO. -

STRUCTURAL STEEL CINCINNATI CORNAMENTAL IRON

BRANCH OFFICES NEW YORK-CHICAGO PITTSBURG-ATLANTA NEW ORLEANS SAN FRANCISCO RICHMOND

"If a man can write a better book, preach a better sermon, or make a better rat-trap than his neighbor; though he build his house in the woods, the world will make a beaten path to his door."—EMERSON.

Established 1844

# FRENCH'S CROWN PAINT

"QUALITY AND ECONOMY"

SAMUEL H. FRENCH & CO., Paint and Varnish Manufacturers PHILADELPHIA, U. S. A.

AMERICAN

# ALSEN

Yearly Capacity, over 2,000,000 Barrels

"The Absolutely Safe"

CEMENT

45 Broadway, New York

GERMAN

# THE MONUMENT POTTERY COMPANY

MANUFACTURERS OF PORCELAIN PLUMBING GOODS and VITREOUS WARE SPECIAL GOODS MADE TO ORDER

WRITE US FOR OUR COMPLETE ILLUSTRATED CATALOGUE -

TRENTON, N. J.,

U. S. A.



# Meurer's Unique Metal Shingles

Designed Expressly for Cottages

Very suitable for all buildings as a substitute for Slate or Wood Shingles. Has our high-wall side lock and cannot leak even on a low pitch. No broken joints. All straight lines. A perfect metal shingle.

Manufactured only by

MEURER BROS. CO., BROOKLYN, N. Y.





### ART METAL BRONZE

TABLETS BANK SCREENS RAILINGS

BANK EQUIPMENT Steel Fittings for

# PUBLIC BUILDINGS

Library Equipment Get Our Catalogs See Our Salesmen

ART METAL CONSTRUCTION CO.

JAMESTOWN N. Y.

The "GLOBE" Ventilator

IN BRASS, COPPER, GALVANIZED IRON AND WITH GLASS TOPS FOR SKYLIGHT PURPOSES

SIMPLE

SYMMETRICAL

STORM-PROOF

FOR PERFECTLY VENTILATING BUILDINGS OF EVERY CHARACTER

Smoky Chimneys Cured

SEND FOR MODEL

Globe Ventilated Ridging

"The 'GLOBE' is built on honor GLOBE VENTILATOR COMPANY, TROY, N. Y.

U U N A I F I 0 L T R Y M

GLOBE

Trade-Mark Reg. U. S. Pat. Off.

1,800

Cities and Towns give evidence proving the superiority of brand.

Time and Experience are the tests that tell and show that

is unexcelled for CONCRETE CONSTRUCTION OF ALL KINDS FROM THE BUNGALOW TO THE MANSION. Twenty years of success behind every barrel guarantees the highest standard. DRAGON has been extensively used throughout the country. It has satis actorily and permanently met tests and requirements of the most unusual character.

Illustrated Pamphlet sent free to any address.

THE LAWRENCE CEMENT COMPANY **NEW YORK** PHILADELPHIA

THE CUMBERLAND CEMENT CO., Cumberland, Md.

# Medusa Water-proof Compound Makes Concrete Water-tight



U. S. SENATE AND HOUSE OFFICE BUILDINGS

MEDUSA PURE WHITE STAINLESS PORTLAND CEMENT

used on the accompanying illustrated work for floors, plastering and setting marble.

> Write for pamphlets giving instructions for use.

SANDUSKY PORTLAND CEMENT CO., Sandusky, Ohio, U. S. A.

Annual output Medusa Portland Cement 1,500,000 barrels

Medusa Products Signify Quality

# **PETRIFAX**

# INTERIOR and EXTERIOR COATING

For Concrete, Cement, Brick or Stucco.

"If the coat fits, put it on"

PREVENTS DAMPNESS
RODUCES ARTISTIC EFFECTS
ROOF AGAINST DUST ON FLOORS

Write for Catalogue "F"

# Dexter Brothers Co.

75 Broad St., BOSTON

# Atlantic Architectural Terra Cotta

Atlantic Faience in Colors as the best known and known to be the best. This is why discriminating users purchase it. It is difficult in this small space to tell you the different things that go to make good terra cotta. The most we can do is to assure you that all these different things have been done in Atlantic Terra Cotta.

Terra Cotta to obtain lasting appreciation must be of good quality, must suggest honest and conscientious workmanship, must be attractive to the eye, and, where ornamentation is necessary, must be modeled with skill. No other terra cotta fulfils all these exacting conditions as well as ours.

Atlantic Terra Cotta Co., 1170 Broadway, New York Branch Offices and Agencies in all principal cities

# "H&C" STEEL LOCKERS

Are made in different styles for different places, of sheet steel, reinforced with steel angles, have perforated bottoms, solid sides, and are well ventilated. Can be arranged in single or double rows. Finished in a high grade, baked enamel, can be shipped knocked down, and are easy to assemble.

### "H. & C." LOCKERS

Are the kind to specify for Hotels, Schools, Factories Offices, Mills, etc.. where it is desirable to have Strong, Rigid and Durable Lockers that can be readily inspected, and are clean and sanitary.

Our Catalog "C" gives complete information

## HART & COOLEY COMPANY

NEW BRITAIN, - - CONN.
NEW YORK CHICAGO
79 Chambers St. 15 Lake St.



# DAHLSTROM PATENT

HOLLOW SHEET METAL DOORS ARE USED IN THIS BUILDING



U. S. Express Building, New York.

Clinton & Russell, Architects

# We also make COLD DRAWN MOULDINGS

For Casings, Crown Mouldings, etc. Catalogue showing numerous designs sent upon application

DAHLSTROM METALLIC DOOR CO.
JAMESTOWN, N. Y.

# THE COST OF GRANITE

We will give you preliminary estimates on your building to enable you to satisfy your client by designing within the cost limit.

### WOODBURY GRANITE COMPANY,

Hardwick, Vermont.

Branch Offices: New York, Chicago, Pittsburg.



# THE PRESCOTT EEL CORNER BEAD

is the only Corner Bead to use, because it is a solid steel rod running the whole length of the corner, making a perfect alignment of the corner regardless of any rough or uneven places; this rod is held by steel clips extending back far enough to afford absolute rigidity; the shape is such that the plastic covering comes to the corner in such a way as to avoid all feather edges to the plaster;

this is a rod that cannot be bent, dented or marred and is easily and quickly put up. We are pleased to have your inquiries and to afford samples. Sold in all cities.

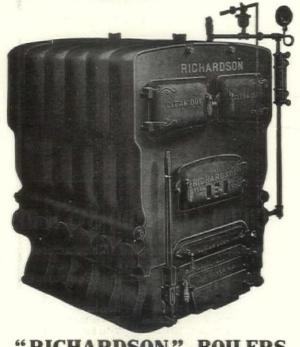
Manufactured by

# I. B. Prescott & Son

Main Street, Webster, Mass.

We also manufacture

Morse Steel Wall Ties Rutty Steel Wall Plugs



# "RICHARDSON" BOILERS

For Steam and Water

"Perfect" Furnaces

"Perfect" Ranges

Specified by Leading Architects

### RICHARDSON & BOYNTON

234 Water St., New York

# Let the Public Know About Your Products in a Manner That Attracts Them

Of the whole heap of catalogs, booklets, circulars, and other matter printed, a great per cent. is money thrown away because it did not attract attention. The prospective customer measures the business by the quality of the message. If there had been a little more money put with what was invested to make it a sure go, two dollars would have

saved twenty

The result of your advertising is almost solely dependent upon your cuts—fine cuts will add 100 per cent. to the appearance of your printed matter.

We Make Fine Cuts-Send Us Your Orders

### MOSS PHOTO-ENGRAVING CO.

295-309 Lafayette Street

(Corner Houston) "Puck" Building

New York

# Permanent Foundations

foundations in exact accord with specificationsfoundations in which such expensive factors as shoring, trenching, sheet piling and pumping are eliminated and masonry cut down to a minimumare made absolutely certain wherever the Raymond system of concrete piling is employed.

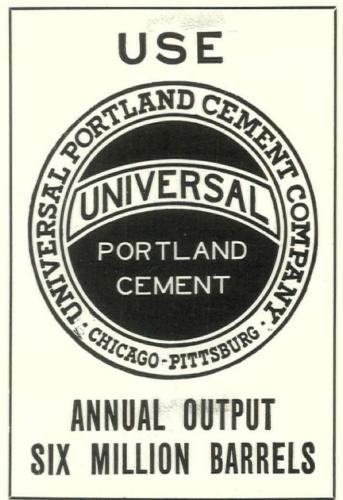
ENGINEERS, architects and others interested in the construction of dependable foundations are cordially invited to arrange with our nearest office for an inspection of work that we have under way in their vicinity.

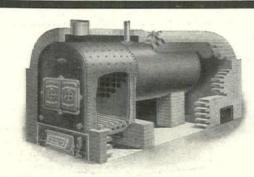
Our engineering department will co-operate with architects and engineers in the planning and execution of difficult foundations, etc.

> A copy of the Raymond treatise on concrete piling can be obtained at any of our offices, free of charge

## Raymond Concrete Pile Co.

Pittsburgh, Union Bank Bldg. Philadelphia, Land Title Bldg.
Baltimore, Pratt & Concord Sts. St. Louis, 600 Chestnut St.
New Orleans, 204 Perrin Bldg.





# The Wonderful Success of KEWANEE BOILERS

is due to the fact that they are properly proportioned in design of boiler and setting.

There is from 50 per cent. to 100 per cent. more

fire surface in proportion to the rated capacity in radiation than in any other boiler made.

A KEWANEE Firebox Boiler of 900 sq. ft. capacity actually measures 120 sq. ft. fire surface, not figuring the surface above the water line nor the outside surface of the firebox (surface usually figured). A boiler of another make of the same rated capacity, carefully measured, has 68½ sq. ft. of fire surface, including everything.

This liberal method makes KEWANEE boilers positively do what they are rated to do! Don't hesitate to specify them on their catalogue ratings. If you haven't a catalogue, get one

KEWANEE BOILER COMPANY KEWANEE, ILLINOIS



# **Vacuum Cleaning Systems**

Engineers, Designers and Manufacturers OF COMPLETE

Stationary Vacuum Cleaning Equipments FOR

Office Buildings School Buildings Library Buildings Lodge Buildings Club Buildings

Hotels Churches Residences Stores

Hospitals Power Stations Telephone Exchanges Theatres Factories

Portable Vacuum Wagons for House to House Cleaning

Mills

Architects
Contractors
Builders

WRITE FOR ESTIMATES
Illustrated and descriptive matter

# The BLAISDELL MACHINERY CO.

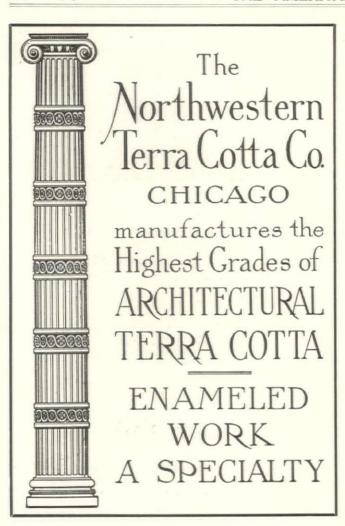
General Office and Factory, BRADFORD PA.

Sales Offices

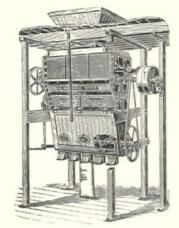
BOSTON 10 P. O. Square

NEW YORK 90 West Street

CHICAGO 428 Monadnock B'lk



# Broughton Mixer



For Plaster, Cement, Lime, Patent Flooring, Etc. :: ::

Ask for Circular

# WILLIAM D. DUNNING

231 W. WATER STREET, SYRACUSE, N. Y.





PORTER RESIDENCE Boulevard, Wilmington, Delaware Walter Stewart Brown, Architect

Sayre & Fisher Brick laid with one inch mortar joint.

All brick mortar and rough casting of

## Nazareth Portland Cement and Limoid

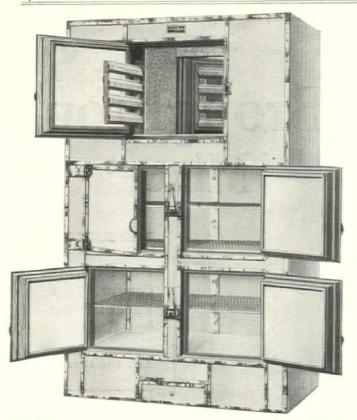
For information concerning these materials, write

CHARLES WARNER COMPANY
General Sales Agent WILMINGTON, DELAWARE

General Sales Agent
Land Title Bldg., M.
Philadelphia, Pa.

Metropolitan Bldg., New York, N. Y.

Boston, Mass.



# Use Our Service

To specify a McCray built-in Refrigerator it is only necessary to give us the dimensions of the space and send us the floor plans. Every other detail of location, drain pipe, arrangement of the refrigerator, style, lining, etc., is worked out and submitted for your approval by our drafting department.

The above Special glass lined Refrigerator No. 6468 fits a space of 49" wide x 30" deep by 78" high. Was built for R. F. Conway, Chicago, Ill., after the first simple instructions from the architect were received.

You can avail yourself of the service of our draftsmen, who will work in perfect harmony with you on any refrigerator problem you may have.

# MCCRAY REFRIGERATORS (Keep things fresh)

in stock sizes may be as truly an integral part of the house as the built-to-order refrigerator, by considering the refrigerator location early and making provision in accordance with the specific dimensions in Sweet's Index.

Fifteen floor plans showing the relative position of kitchen, pantries, refrigerator and outside icing facilities in representative American houses, also exact measurements for arranging the wall opening for outside icing door and locating the drain pipe for stock sizes of McCray Refrigerators, will be found on pages 1082 to 1086 of the 1909 Sweet's Index.

A postal card request will bring you our best discounts, and a copy of the new book, "McCray Refrigerators in American homes."

McCray Refrigerator Co.
907 Mill Street, Kendallville, Ind.

# DWIGHT SPECIAL

# ==THIN == HARDWOOD FLOORING

The best form of thin hardwood flooring yet devised.

See Monthly Lithographic Illustration in American Architect.

Send for samples

The growing cost of Hardwoods necessitates the use of thin flooring which, if properly made and laid, is as serviceable as thick flooring.

SOLE MANUFACTURER

DWIGHT LUMBER COMPANY DETROIT, MICH.

# Infinite Variety

of classic and modern statuary, motifs and designs, correctly and faithfully designed and worked out in sheet bronze, copper and zinc.

# Mullins

Art Architectural Sheet Metal Work and Statuary



is an absolute reproduction of the original design, and has a sharp, clean and beautiful effect.

clean and beautiful effect.

The Mullins Statuary is for Monuments and Buildings—made of Sheet Copper and Bronze, artistic and high class in every respect.

Architects and contractors seeking information about Cornices, Panels, Friezes. and all Ornamental Work, should have our large 120-page catalog—it is free. Also ask for separate catalog of Mullins Sheet Metal Statuary, which is as durable and artistic as cast bronze or sculptured work, and costs less.

Please specify the kind of Metal Work or Statuary you are interested in, and proper catalog will be sent.

W. H. Mullins Co. 206 Franklin Street, Salem, O.

N

in

thi

Mi

A

gre

hibiti

for 8

eyes

m ir-

tient!

RAW

was

lifted

from him

pale

was

fell.

de-

hting

Then

take

ussed.

## WHY STEEL IS PAINTED RED

HY IS iron or steel invariably painted red?" This question has been asked by scores of men and women recently who have walked over Hungerford bridge on the way to Waterloo station from Charing Cross. One of the workmen was asked why the bridge was be-

workmen was usked why the bridge was being painted red.

"Oh, it's not the color that counts," he said, "but it's what the paint is composed of. This is red lead, and any steel man will tell you that red lead is the best preservative against dampness and rust. Recently a dark green lead has come into use as a first coat for iron and steel, but after all red lead seems to hold its own as a covering to preserve steelwork. When the red lead is once on it the structure can be painted in any other color to suit the taste. The red lead lasts years."—London Tit-Bits

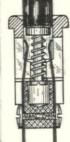
the amount of the fee to Dr. Bob. helpless between love and laughter.

"Nellie, Nellie," said Dr. Bob Maggy in her excitement popped her head in without knocking

"It's from Mrs. Martin's—the rich Mrs. Martin's," she said breathlessly, "and she wants you immediate, sir,"

(Converted of 1999, by Associated Literary

(Copyrighted, 1909, by Associated Literary Press.)



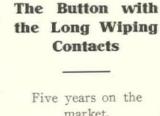
Construction







97. Regular



market.

THE

**Push Button** 

Accepted by the trade as the best.

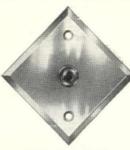
Acknowledged by competitors as a standard.

> Highest in price, naturally.

Furnished unmounted or mounted and in any finish.



970. Two Circuit. 9703. Springfit

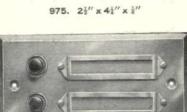


971. 1½' x 1½" x ½"



972. 11" x 31" x 11





The

### "Workrite"

is mounted on plates singly and in gang.

It is nongrounding.

The

### "Workrite"

is also supplied fitted in "capless" pendants.

> Send for Bulletin No. 18

# S. H. COUCH CO., INC.

MANUFACTURERS

156 Purchase Street, Boston 324 Dearborn Street, Chicago 116 Nassau Street, New York

# The Layman's Hazy Ideas

THIS clipping from London Tit-Bits shows how hazy the ideas of lay minds are on technical subjects, but it also illustrates the important fact that red lead is everywhere the standard paint for protecting iron and steel.

The "dark green lead" referred to is probably some other pigment, toned, without an ounce of lead in it. At any rate, "red lead seems to be holding its own," whatever the substitute offered, and it has done so for years. The reason is not far to seek. Test after test has shown red lead at the top of the list as a rust inhibitor.

Our own red lead is ground uniformly fine and has the highest percentage of true red lead. Frequently, where, for competitive bids, standards are placed very high, our red lead is the only one to meet the requirements.

# NATIONAL LEAD COMPANY

New York, Boston, Buffalo, Cincinnati, Chicago, Cleveland, St. Louis

John T. Lewis & Bros. Co. Philadelphia

National Lead & Oil Co. Pittsburgh

# ROYAL VENTILATORS

Sold by One Jobber to One Customer



THE ROYAL
IS THE "CHEAPEST AND BEST"
VENTILATOR

made, requiring a less number of ventilators on a building to obtain the same results, less holes to cut, less repairs to roof than when other makes are used. for use on the

### MAXWELL-BRISCO PLANT AT NEW CASTLE, IND.

The Largest Auto Factory Under One Roof in the World.

This immense plant is properly ventilated with over 200 18-inch Royal Double Cone Ventilators. Lockwood, Green & Co., Architects and Engineers, Boston, Mass.

# THE WM. PENN HIGH SCHOOL BUILDING, PHILADELPHIA, PA. One of the Finest Schools Ever Erected

Is now using 2 30-inch, 2 32-inch, 1 42-inch, 5 48-inch, 1 50-inch, 3 66-inch, 3 72-inch, 1 78-inch, 24 and 30-oz. Cold Rolled Copper Royal Ventilators.

### TWO OTHER SCHOOL BUILDINGS, PHILADELPHIA, PA.

are using 1 40-inch, 1 48-inch, 9 54-inch, 6 60-inch, 1 66-inch, 24 and 30-oz. Cold Rolled Copper Royal Ventilators.

Another larger order for Japan for large Foundry Buildings, are only a few of the many sample orders for the Royal

Double Cone Ventilators.

Write us for 1909 Booklet and Price Lists. We ship all over the World. Tests prove the Royal to be the most efficient ventilator made.

ROYAL VENTILATOR & MFG. CO. - - 421 LOCUST STREET PHILADELPHIA, PA.



# The Bohn Syphon Refrigerators

A RE used exclusively by the Pullman Company and all railroad companies for dining, buffet and refrigerator cars.

The new Senate Office Building in Washington is equipped with the latest models of Bohn Refrigerators, which have only been completed and installed within the past month.

Many of the most exclusive clubs and hotels in the United States and Canada are using Bohn Syphon Refrigerators, notably the Knickerbocker Club and the Waldorf-Astoria Hotel, New York; The Bellevue-Stratford Hotel,

Philadelphia, and Rector's, Chicago.

The Fred Harvey System, operating on the Sante Fe Railroad, use the Bohn Syphon Refrigerators in their lunch rooms, hotels and commissaries.

These statements you will recognize as the strongest of endorsements. You will not make a mistake in specifying

Bohn Refrigerators

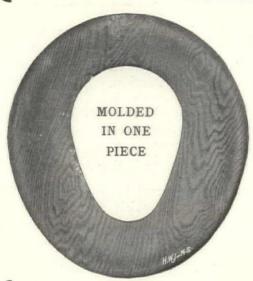
Write for 1909 catalogue of Bohn Syphon Refrigerators, just out of press.

# White Enamel Refrigerator Co.

Main Office & Factory St. Paul, Minn. New York Office & Salesroom 59 West 42d Street

# Sanitor One-Piece Construction

NOTHING TO COME APART



Molded in one piece under hydraulic pressure.

No sections to come apart-no bolts, braces, screws or nails to work loose

### The only Seat and Gank made in one piece.

Warranted not to crack, split or warp for five years.

Tanks require no lining and never leak. Furnished in mahogany, oak and white enamel finishes.



Molded in one piece

Write nearest branch for sample of Sanitor Material and Booklet.

# H. W. Johns-Manville Co.

Manufacturers of Asbestos and Magnesia Products,



Baltimore Boston Buffalo Chicago

Asbestos Roofings, Packings, Electrical Supplies, Etc. Cleveland Dallas Detroit Kansas City

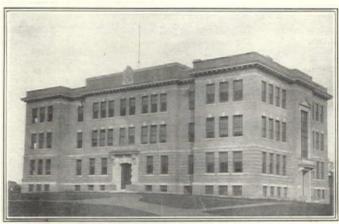
London Los Angeles Milwaukee Minneapolis

New Orleans New York Philadelphia Pittsburg

San Francisco Seattle St. Louis

(1060)





Robert Allen Cook Architect Milford, Mass

WOBURN HIGH SCHOOL WOBURN, MASS.

Geo. Huey Consulting Engineer Boston, Mass.

Vacuum Ventilators installed on this building

# The Vacuum Ventilator is a natural ventilator and always positive in action.

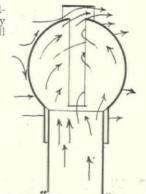
There is nothing in it to impede the steady, upward flow of air.

Does not depend upon direction of wind, nor the angle at which the wind strikes it.

A perfect supplement to the work of elaborate ventilating systems, absolutely doing away with the necessity of aspirating coils in stacks. The vertical outlet does the business.

It is always at work and takes all foul air out.

It keeps buildings perfectly ventilated all the time.



THE VACUUM

# VACUUM

Combines the highest degree of efficiency with the simplest, most scientific form of construction.

It is as far superior to any ventilator as sunshine is to candle light. If you are bothered with down draughts, write to us. Has no squeaky, revolving hood nor obstructive "top." Testimonials and catalog sent on request.

Some territory open for first-class representatives

VACUUM VENTILATOR COMPANY

141 MILK STREET, BOSTON, MASS.

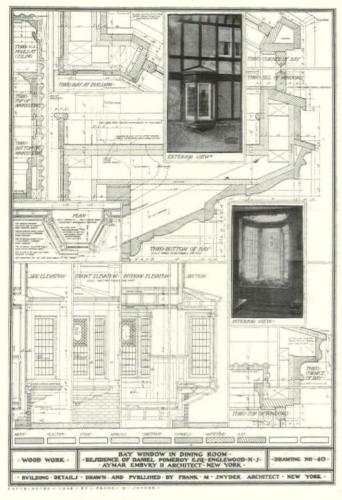


PLATE REDUCED-Actual Size 16 by 22 in.

# RUILDING DETAIL

Published with ten drawings to each part to provide complete and accurate data of the various parts of building construction.

These details may be readily adapted to any work having similar requirements, using different materials, sizes and proportions than those shown.

The different materials are clearly indicated or noted, with dimensions so carefully figured as to make Building Details of practical value.

Photographic reproductions are also shown beginning with Part II. Parts V and VI which are now in preparation, promise to be even more interesting than the previous

Sold Separately, \$1.85 each

Six Parts, \$9.60 (A reduction of \$1.50)

Twelve Parts, \$18.00 (A reduction of \$4,20)

(Correspond with us for combination prices.)

### CONTENTS OF PART THREE

- Drawing Room Window Frames and Sash, Residence of the Misses Thompson, New York. Henry Bacon, Architect, New York. No. 21.
- Wood and Iron Stairs, Residence of the Misses Thompson, New York. Henry Bacon, Architect, New York.
- Gable and Entrance, Stable of Alexander Simpson, Jr., Esq., Merion, Pennsylvania. Walter F. Price, Architect, Philadelphia.
- Side Gable and Oriel Window, Residence of Daniel Pomeroy, Esq., Englewood, N. J. Aymar Embury, 2d, Architect, New York.
- No. 26.
- No. 27.
- Architect, New York.

  Marquee and Lanterns at Main Entrance, Mrs. Dow's School, Briarcliff Manor, New York. H. Van Buren Magonsgle, Architect, New York.

  Casement Window, Residence of Samuel Emlen, Jr., Esq., Germantown, Pa. Cope and Stewardson, Architects, Philadelphia.

  Cornice, Window Frames, Sash, Shutters and Trim Residence of Dr. Marsden, Chestnut Hill, Philadelphia.

  Co. B. Keen, Architect, Philadelphia.

  Mantel and Fireplace in Dining Room, Residence of Miss Dunning, Briarcliff Manor, N. Y. H. Van Buren Magonsgle, Architect, New York.

  Bookcase in Study, Residence of Mrs. A. B. Trowbridge, Port Washington, Long Island. Trowbridge and Ackerman, Architects, New York.

  Vestibule and Entrance, Residence of Mrs. V. L. M. Ewing, Tarrytown, N. Y. Ewing and Chappell, Architects, New York.

### CONTENTS OF PART FIVE

Entrance Doors, Frames and Trim, Connecticut Savings Bank, New Haven, Conn. Gordon, Tracy and Swartwout, Architects, New York. Square-headed openings in marble with pivoted bronze entrance doors, hinged iron vestibule doors, bronze grille with hinged sash back, bronze radiator grille. Interior marble finish, Plans, Elevations and Sections with Photographs. No. 41.

- Entrance Doors, Frames and Trim, Connecticut Saving-Bank, New Haven, Conn. Gordon, Tracy and Swartwont, Architects, New York. Three-inch scale Details of work shown on drawing No. 41.

  Window Frames and Sash, Connecticut Savings Bank, New Haven, Conn. Gordon, Tracy and Swartwout, Architects, New York. Square-headed openings in marble with electro-bronze plated wood frames and sash; bronze sash operating device.

  Upper Stories and Cornice, Gorham Building, New York. McKim, Mead and White, Architects, New York. Square-headed openings in limestone, with wood frames and sashes and with stone columns, bases and capitals, stone and copper cornices, copper grille, etc. Plans, Elevations, and Sections with Photographs.

  Upper Stories and Cornice, Gorham Building, New York. McKim, Mead and White, Architects, New York. One and one-half inch scale Details and Photographs of work shown on Drawing No. 44.

  Upper Stories and Cornice, Gorham Building, New York. One and one-half inch scale Details and Photographs of work shown on Drawing No. 44.

  Steel Doors and Trim from Corridor to Offices, Fifth Avenue Building, New York. Maynicke and Franke, Architects, New York. Doors and windows in four-inch tile partitions, with marble wainscoting, marble base, etc.

  Doors, Windows, Trim, Balcony, Roof, etc., Residence No. 44.
- No. 45.
- No. 46.

- inch tile partitions, with marble wainscoting, marble base, etc.

  No. 48. Doors, Windows, Trim, Balcony, Roof, etc., Residence of Miss Dunning, Briarcliff Manor, New York. H. Van Buren Magonigle, Architect, New York. One sixteenth-inch scale Plans. Elevations and Sections with Photographs.

  No. 49. Doors, Windows, Trim, Balcony, Roof, etc., Residence of Miss Dunning, Briarcliff Manor, New York. H. Van Buren Magonigle, Architect, New York. One and one-half inch scale Details and Photographs of work shown on Drawing No. 48.

  No. 50. Doors, Windows, Trim, Balcony, Roof, etc., Residence of Miss Dunning, Briarcliff Manor, New York. H. Van Buren Magonigle, Architect, New York. One and one-half inch scale Details and Photographs of work shown on Drawing No. 48.

THE AMERICAN ARCHITECT DEPT. 239 West 39th Street NEW YORK BOOK





# Fifty-four Years of Quality GUARANTEE LABELS

Guarantee labels on enameled ironware are various and are variously translated in practice.

Careful architects have come to understand that it is the spirit behind the guarantee that counts for most after all. The liberal, unquestioning, make-good policy behind every Wolff guarantee is responsible for unvarying Wolff specification as often as is the leadership of Wolff design.

Established 1855

# L. Wolff Manufacturing Co.

Manufacturers of

# Plumbing Goods Exclusively

The only complete line made by any one firm

Show Rooms, 91 Dearborn Street, Chicago

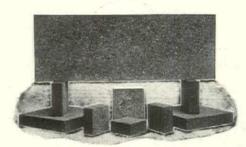
DENVER General Offices, 93 West Lake Street, Chicago

MINNEAPOLIS, MINN. 615 Northwestern Bldg. OMAHA, NEB. 1108-12 Nicholas St. BRANCH OFFICES: KANSAS CITY, MO. 1205 Scarrett Bldg. CLEVELAND, OHIO. Builders' Exchange WASHINGTON, D. C. 327-328 Bond Bldg.

BUFFALO, N. Y. 77 Richmond Ave. SAN FRANCISCO, CAL. Monadnock Building

# NONPAREIL CORKBOARD

For Insulating Cold Storage Warehouses, Abattoirs, Breweries, Dairies, Ice Plants, Refrigerators, etc.



To insulate cold storage rooms properly is just as important as to provide means to keep them cold. At least four-fifths of the work the average refrigerating machine does, or eighty out of every hundred pounds of ice used in cooling storage rooms, goes to remove the heat that is leaking in constantly through walls, floors and ceilings. You can't stop this waste altogether, for no material is heat proof, but by scientific insulation you can reduce it to a minimum.

This is where we can help you. We have installed Nonpareil Corkboard in hundreds of plants all over the country. It is composed of granulated cork made up in sheets of convenient size.

Cork consists chiefly of air sealed up in microscopic cells so that it can't circulate. Nonpareil Corkboard, therefore, is a splendid nonconductor, for every one of these little cells helps to prevent the passage of heat.

These cells are waterproof, too. Hence Nonpareil Corkboard won't absorb moisture, won't rot, won't mold, won't give off offensive odors, won't taint goods in storage. It is easy to put up, strong and sanitary, too. You can nail it against studding; put it up in cement against brick walls; lay it under concrete floors; plaster its surface. Nonpareil Corkboard is the only cold storage insulating material approved by the National Board of Fire Underwriters.

Advice and estimates cost you nothing.

# ARMSTRONG CORK COMPANY

Insulation Department, Pittsburgh, Pa.

Nonpareil Cork Works, Fulton Building, New York City.

Branches in the larger cities

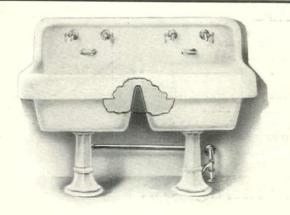


Plate F-321

# THIS IS DIFFEREN

Different, we mean, from the "Duplex" laundry tubs made by other manufacturers. Not only is it superior in beauty and symmetry, but also practically. Note that instead of the usual single partition this fixture has two between the tubs with a space between which prevents the enamel from cracking on account of expansion and contraction when the state of t pansion and contraction when one tub is filled with hot and the other with cold water. Two tubs, 10-inch back and 5-inch apron, all cast integral. On painted iron

leg standards, as shown.

Ask for Catalogue "F"—136 pages of "Southern Beauties."

## THE CAHILL IRON WORKS, - - CHATTANOOGA, TENN.

New York Office and Sales Rooms, 76 W. 36th St.,
Thos. H. Hutchinson, Manager.

Portland Office and Warehouse, 650 Sherlock Building,
H. A. Heppner & Co., Sales Agents.

Chicago Sales Agent, Harry Verbeek, 163 Randolph St.
San Francisco Office, 1749 Sacramento St.,
Chas. H. Stanyan, Sales Agent.

# ENTILATION (Patented)

# ARCHITECTS and OTHERS

Will be interested to know that a complete, self-contained me-chanical ventilating apparatus is now on the market that can be installed and operated in the room or rooms you desire to ventilate at a comparatively small cost without making any change whatever in the present construction of the building Write for Pamphlet A.

# Garner Ventilating Co.

CHICAGO: 115 Dearborn Street

NEW YORK: 136 Liberty Street

# ORNAMENTAL IRON AND BRONZE



BRONZE COUNTER SCREEN
CROCKER NATIONAL BANK, SAN FRANCISCO
L. B. DUTTON, ARCHITECT

# THE WINSLOW BROS. COMPANY

NEW YORK —

CHICAGO

SAN FRANCISCO

AGENCIES IN ALL PRINCIPAL CITIES OF THE UNITED STATES

# GEORGIA MARBLE

# KENNESAW

A durable white

# **ETOWAH**

Pink of many shades

# **CHEROKEE**

gray, ranging from light to dark

# CREOLE

blue in variegated

These marbles offer architects great opportunities for carrying out effective color schemes.

The quarries are notable for their exceptional equipment and the vast extent of the material which makes it possible to supply marble in any color selected and in any quantity and size that is transportable.

The product of the Georgia Marble Co. is NON-ABSORBENT. Hundreds of outcroppings appear on the Company's property, but not an ounce of decomposed marble can be found.

In texture and durability it approaches more nearly than any other, the marble used in the temples and palaces of ancient Greece, portions of which have withstood the ravages of time for centuries.

# THE GEORGIA MARBLE CO.

TATE, PICKENS CO., GEORGIA