THE AMERICAN ARCHITECT
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THIS ISSUE CONTAINS
THE INTERNATIONAL TOWN PLANNING CONFERENCE, LONDON, DESCRIBED BY G. A. T. MIDDLETON, A. R. I. B. A.—RECENT WORK IN DOMESTIC ARCHITECTURE BY MESSRS. ALBRO & LINDEBERG

VOLUME XCVIII  NOVEMBER 16, 1910  NUMBER 1821
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NEW CITY OCEAN PORT, SAMBOROMBON BAY, ARGENTINE REPUBLIC. C. STANLEY PEACH, F.R.I.B.A., ARCHITECT

(From the Town Planning Conference Exhibition at the Royal Academy.)

Mr. Peach's great scheme for the new ocean port of the Argentine Republic in the Bay of Samborombon is a masterly combination of symmetrical, ring and radial planning, with all important buildings located round the port itself and along the central axial boulevard.

THE INTERNATIONAL TOWN PLANNING CONFERENCE

BY G. A. T. MIDDLETON, A. R. I. B. A.

A n international conference upon the subject of Town Planning was held in London during the week ending October 15. Carefully prepared for and well organized by the Royal Institute of British Architects, it has proved an entire success in every way. It was the immediate outcome of the passing, recently, of a Town-planning Act by the British Parliament, but as a matter of fact the subject has been one which has been growing in importance for many years past, not in one country only but throughout the world, so that delegates were present in considerable numbers from all parts of Europe, from several British colonies and from the United States. It is said that a heavy monetary loss has been sustained by the organizers, but if this be the case it is all the more creditable that the work should have been done so thoroughly. Certainly the money could hardly have been better expended than by gathering together in one focus all the accumulated knowledge that the world possesses upon the subject of Town Planning, and the encouragement of the expression of many views, with the undoubted result of placing our knowledge upon a broader basis. Incidentally, English architects have come into prominence as they never have done before. It is not only those who have attended the conference who are likely to benefit, but all others throughout the country, and possibly, in the course of time, in other countries also, through the dissemination of the impression that architects are the first folk to be consulted in devising a town-planning scheme, whether it be for the laying-out of a new city or the extension and development of an old one.

Though organically one, the conference was organized in three important divisions, the principal of which consisted in the reading of a series of papers in the galleries of the Royal Institute of British Architects. These occupied the mornings and evenings, and many of them were so well attended that overflow meetings had to be held in a second room, arrangements being made for the same papers to be read twice. Concurrently with the afternoon meetings there were visits to many places of interest from a town-planning point of view; these, too, were mostly well attended, though upon two days the weather was inclement and interfered somewhat with the programme. Concurrently again, there were held three great exhibitions of town planning, the most important of these occupying the Halls of the Royal Academy, while others, much smaller,
The ring road round London is suggested in order to provide much easier communication between the outer suburbs than at present exists and simultaneously to facilitate rapid motor traffic from one side of London to another without necessarily passing through its crowded thoroughfares. It would be carried almost entirely what is now vacant land at approximately 9 miles from the center, and would be some 60 miles in length, but already the suburbs extend right up to and beyond it in several directions.

were held at the Guildhall in the City of London and in the Library of the Royal Institute. These were never crowded, yet scarcely anyone who attended the conference failed to see them all, those more intensely interested spending several hours at the Academy, where no less than seven galleries were filled with German plans and nearly three were occupied by exhibits from the United States.

In addition to these three great sections there were also a series of social functions held in the evenings commencing with a conversazione at the recently enlarged rooms of the Institute in Conduit Street on October 10, a dinner being held at the Hotel Cecil on Wednesday, October 12, and a reception being given by the Lord Mayor at the Mansion House on the following evening, there having been also a smaller reception in the afternoon by Mr. Whitelaw Reid at the American Embassy, the attendance at which was limited to 200.

The conference, which was under the patronage of the King of England, was opened on Monday, October 10, by the Right Hon. John Burns, M.P., president of the Local Government Board, at a largely attended meeting in the Guildhall in the City of London. In the course of a long and eloquent speech Mr. Burns said that in his opinion the development of the citizens' environment was the wisest insurance that a city could make; he did not think that it was possible to have too many bridges, too many wide roads, or too many beautiful buildings, considering how great was the effect of structural environment upon the character, temperament and disposition of the people. Cities, he said, were not mere structures of brick and stone, nor centers only for commerce and trade, but places where utility, comfort and beauty should be combined, so that those who visited them, or passed through them, might have their artistic senses awakened and cultivated. He considered that the gradual reconstruction of a city was a serious matter for all, but disease could not be fought and exterminated unless we admitted the sun and air into our homes and streets. So long as there were squalid courts and rotten tenements, so long would the country continue to turn out nerveless mannikins. If planning were neglected at the beginning, or badly done through timidity or lack of imagination, a burden was placed upon future generations, and eventually the lack of prescience and daring would have to be paid for seven or eight times over.

When the conference settled down to business on Tuesday morning it was found that the papers to be read that day were devoted to the subject of "The Cities of the Past," and these were arranged to be read in something like chronological sequence. Professor Percy Gardner of Oxford opened with a description of the Hellenic period, showing that the planning of cities in the ancient world went through much the same phases as in modern times; that in many respects the old cities of Greece resembled those of France and Germany before the time of Napoleon, with their narrow winding streets bordered by poor houses; that the private houses...
for defensive walls throughout a long period of European history led to over-crowding and narrow, tortuous streets, until during a period of peace a suburban district would arise outside the walls where the conditions of life were better, involving, as the population increased, the eventual building of fresh enceinte walls, and a repetition in the newly enclosed area of the evils previously confined to the over-crowded center.

The next paper, or one should, perhaps, better say lecture, was delivered extemporaneously by M. Augustin Rey of Paris, who spoke in French, giving incisively and clearly his views upon the development and extension of cities. He dwelt mostly upon considerations of health, going closely into the matter, and showing that insanitary conditions result from dwelling either in an American "sky-scraper" or a Continental block of dwellings surrounding a small courtyard. He declared that all the problems of housing and town planning are bound up in the doctrine that the prime necessities of human life are abundant sunshine and free currents of air. He then propounded a novel thesis, which formed one of the important and most startling statements made during the conference, which he was also illustrating by means of plans exhibited at the Royal Academy, in relation to which his conclusions are given as follows:

"The penetration of the sun's rays being the primordial condition for the healthiness of buildings, the astronomic study which has been shown in these general lines leads us to conclude that, for our temperate climates: (1) Streets running north and south are eminently healthy; (2) streets at an angle of 30 degrees to a line drawn north and south are healthy; (3) streets inclined at an angle of 45 degrees to the line north and south are moderately healthy; (4) streets running east and west are notoriously unhealthy.

"None of the great cities of the world which have been made the object of this study have ever pre-occupied themselves with the all-important question of the orientation of the streets."

He said that if he had his way he would plan all the inhabited streets to align north and south, and only provide east to west communication for a few traffic thoroughfares; he did not believe in twisting roads.

Sir William Richmond, R.A., in a paper read during

HAMPSTEAD GARDEN SUBURB, LONDON, N. W.
Barry Parker and Raymond Unwin, Architects in Consultation with E. L. Luytens.

The Hampstead Garden Suburb is the most successful attempt yet made in England to lay out a large residential estate upon pleasant lines, having regard both to the plan and contour of the ground and with constant thought for good aspects and delightful vistas.
the afternoon, dealt with some factors in town planning, but the paper lost much through the author being ill and unable to read it himself. Disagreeing with M. Rey, he thought that many geometrical forms other than the circle, oblong or square, such as the oval and ellipse, might be discreetly used with advantage to redeem a plan from obvious monotony and produce unexpected effects of light and shade. Incidentally, he contended that none but accredited architects, who had passed proper examinations, showing them to be fitted as constructors and designers, should be enlisted in the ranks of responsible guides for a town planning scheme.

While this paper was being read in the Great Gallery, Mr. H. C. Dowdell was dealing with the growth of legal control for town development in England, but both this paper and that which followed it, by Mr. C. H. B. Quennell, on town planning and land tenure, were of a highly technical character, and related to matters of little interest outside Great Britain, the condition of affairs being necessarily different elsewhere.

The papers read upon Wednesday, October 12, dealt with “The Cities of the Present,” the first being by Professor Baldwin Brown, of Edinburgh, under the title of “Town Planning, and the Preservation of Ancient Features.” He declared that in the Northern countries of Europe it is above everything the picturesque or ensemble which charms—winding streets full of surprises such as those of Bruges, Nuremberg or Rothenburg, rather than the more formal roads of Mannheim or Turin.

Following him, Mr. C. M. Robinson, of Rochester, N. Y., spoke of the cities of the present as representative of a transitional period of European development. He said that even in the city of our own remembrance of but little while ago it was necessary that the workman should live near his work, but that this necessity is passing with the quickening and cheapening of urban mechanical transport. He claimed that adequate recognition has become necessary of the tremendous change brought about by the laborers’ wish to live away from his work, and his recently acquired ability to do so. He called for the provision of long, straight, broad, radial highways of easy gradient, shortening time and distance to the outer zones, to facilitate the daily ebb and flow of travel and increase the area available for home building. After this the changes would involve a rearrangement of minor streets adjusting them to the needs of the sections which they serve. He contended strongly against the standardization of the width of streets as being often both illogical and extravagant, saying that in most cases it can be absolutely foreseen that given residence thoroughfares will never become business streets, and that the present tendency is to call for a street width which is entirely unnecessary.

Mons. Bonier, who followed, dealt entirely with Paris and the thirty-one by-laws or ordinances which regulate all questions of architecture there, and he again was followed by Mr. H. V. Lanchester, whose paper on “Cause and Effect in the Modern City” emphasized the general English point of view, showing that the Englishman’s desire for a house “all his own” did more to fix the type of the English city than any other consideration.

In the afternoon Dr. Lillienberg, of Gothenberg, read a paper on “Town Planning and Legislation in Sweden During the Last Fifty Years,” showing that Swedes...
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Frontispiece: Gateway to the Citadel, Pergamum.

THE FIRE HAZARD

THE loss of property by fire in the United States—$250,000,000 annually—is out of all reason. Making every possible allowance for the large number of wooden structures still remaining from the period when wood was our chief building material, the number of total losses is still excessive, and an examination of the causes shows them to be, in nearly every instance, preventable. It is nothing less than gross carelessness and criminal negligence that lead to this enormous property waste and to the sacrifice of many human lives, as well. Architects could do much to aid in reform in this matter if they would advise themselves of the records and conclusions of the insurance people. The Quarterly of the National Fire Protection Association contains the essentials of the situation and could be read with profit by every practising architect. In advising clients architects should steadily set their faces against hazardous construction and advocate, intelligently, fireproof buildings, of whatever type. It is especially worth while to recall a fact noted by the National Board of Fire Underwriters, in the report of a special committee to the recent annual convention of that body, and the public should be brought to understand that property destroyed by fire is gone forever and is not replaced by the distribution of insurance, which is a tax collected for the purpose.

STIMULATING THE CLIENT

THE development of architectural art in America is making steady progress toward better things, but the rate of progress would be materially hastened if more pains were taken by architectural societies to hold public meetings from time to time at which papers, illustrated in an interesting way and addressed to laymen rather than practitioners, should be made the main feature of such meetings. The American public, partly through foreign travel but partly, also, from the influence of well-educated architects upon individual clients, is becoming more appreciative of good work. There seems no good reason, however, why such individual effort should not be supported by a concerted attempt on the part of professional societies everywhere in the same direction and in the manner suggested.

It is not difficult so to present the architect's point of view in an intelligent and interesting way, and addresses by architects of prominence in every locality on those fundamental questions which affect intimately present-day architecture would (we speak from experience) produce very definite results and greatly enhance the pleasure which results from intelligent and sympathetic co-operation on the part of appreciative clients.

ANCIENT TOWN PLANS

IT is interesting to note that the planning of Hellenistic and Roman cities in the majority of cases proceeded on what, in modern times, have been regarded as purely American lines. The papers of Professors Percy Gardner and F. J. Haverfield, read at the London Conference on Town Planning, call attention to this fact. Professor Gardner points out that while the older Greek cities consisted of narrow, winding streets, the later Ionian cities were all planned with streets at right angles to each other "and the convenience of the inhabitants was the principal consideration." The plan of Priene, for example, was arranged with the "agora" or civic center in the middle, while on all sides the town was cut up into square blocks of uniform size by straight streets, which crossed each other at right angles, "suggesting a modern American city rather than one belonging to the centuries before Christ."

DESIGN IN CONCRETE

THE Engineering Record, in a recent issue, very properly calls attention to the necessity under which architects lie of depending chiefly upon proportion for their expression in the design of concrete houses, since minor decorative detail is excluded by the nature of the material. This will be good discipline for men who, as suggested recently in these columns, have been working under the misleading impression that decorative detail is a major rather than a minor adjunct of exterior design, and the growing vogue of concrete is, therefore, bound to have an excellent influence. The writer of the article referred to himself labors under a mistaken impression regarding the fundamental nature of the element of proportion in design. Proportion does not concern itself whether the major axis of the façade is horizontal or vertical. The problems differ, but not the method of solution. The paragraph alluded to is as follows:

"The office building erected on a little plot of land, necessarily towering far upward in order to become even moderately profitable to its owner, is a structure in which any harmony of proportions is out of the question."

This mistaken idea is not uncommon among those who are not trained in architectural design.
The Holborn to Strand Improvement, now carried out, indicates what costly and extensive alterations are eventually needed if a city is originally allowed to grow up in haphazard fashion.

(Continued from page 164)

had, in some respects, taken the lead of all other countries, having passed an Act in 1874 providing that every town must formulate a town extension plan and giving power to any municipality to carry out extensive improvements in the older part of a town.

Professor Adshead, of Liverpool, dealing with city improvements, put in a plea for planning on a large scale. He said that a great city must concentrate its interest at points and not spread it about with reckless waste; that it must have wide streets, wide sidewalks, and big buildings simply composed. He contended that it is only by a bigger comprehension of the subtleties of design that we can hope to get better scale in the architecture and composition of our towns.

While Professor Adshead was speaking thus in the Great Gallery, Mr. G. L. Pepler was talking about "Greater London" in the East Gallery, and was putting forward another of the great ideas of the conference, claiming primarily for London, but incidentally for all large towns, that there is need for ring streets or boulevards more or less concentric, to provide for easy communication between the various suburbs without necessarily passing to the heart of the city and out again, with, of course, radial communication from the rings to the center, and ample cross communication by way of side streets over the intervening spaces. He produced a plan showing how such a ring boulevard could be cheaply provided round London along approximately the nine mile circle. Later in the afternoon Mr. R. Evans put in a plea for the restraint of advertising in such a way as to disfigure growing cities.

On the morning of Thursday, October 13, Mr. W. E. Riley, the architect of the London County Council, read a paper on "City Development," which was given up to a great extent to statistics, showing how, until recently, it has been impossible to prevent good schemes for development of suburban areas being blocked by the selfishness of particular owners whose desire has been to crowd the land with rent-producing tenements, complying with the bare minimum prescribed by the building law.

In a subsequent address by Herr Dr. Stübben, of Berlin, on "Recent Progress in German Town Planning," it was pointed out that generally there is a tendency now towards formal town planning which looks well upon paper—just when the Germans, who had experimented in that direction for the last twenty years, were beginning to abandon it, having come to a recognition that it is not always applicable. He even went further, saying that the Germans favored straight lines and a uniform style until the eighties, and then abandoned these in favor of eccentric curved forms, while now they are coming back to a more sober conception, estimating curved and straight lines, symmetry and the unsymmetrical at their more true value.

Later on Colonel Plunkett and Mr. T. H. Mawson both dealt with various phases of the planning of parks and open spaces.

On Friday, the last day upon which discussions took place, the general subject was that of "The Cities of the Future." This was dealt with, so far as England was concerned, by Professor Reilly, of Liverpool, and by M. Hénard from the French point of view, taking as his title "Les Villes de L'Avenir." Two opposing views were also put forward by Mr. Burnham, of Chicago, and Mr. Cope Cornford, the latter speaking very strongly against the use of the rectangular plan intersected by long main diagonals, saying that it has produced a series of awkward corners whose architectural treatment is practically hopeless. He called for right-angle junctions to all main streets, even if twisted connecting roads were involved, for, as he said, what looked well upon paper as a plan did not always work out best in actuality.

In the afternoon the principal papers were upon the planning of Khartoum and Omdurman and upon the new federal capital of Australia, by Messrs. McLean and Sulman, respectively; but it is doubtful whether the over-filled room was due so much to the papers themselves as to the fact that the chair was occupied by Field Marshal Lord Kitchener, who received a wonderful ovation as he entered. Two papers were read in the East Gallery by Mr. H. H. Statham and Mr. Arthur Crow, in which suggestions were put forward for the treatment of Trafalgar Square, and for town planning in relation to old and congested areas.
November 16, 1910

THE AMERICAN ARCHITECT

REVIEW OF CURRENT ARCHITECTURAL PRESS

The Brickbuilder for September continues its series of articles on Acoustics by Mr. Hugh Tallant. Like all elusive problems, acoustics is attractive. We read, "In the case of a new building the preliminary sketches should be laid out with a general view to acoustic as well as architectural requirements."

In the case of an old building the author regards the problem as simplified to the extent that its acoustic shortcomings are already in evidence. The most dangerous defects are "insufficient or excessive loudness; indistinctness due to interrupted vibration; indistinctness due to sound interference; echo; and insufficient or excessive reverberation." These are all successively taken up and considered.

The subject of sanitary buildings with particular reference to those recently erected in the city of Boston is treated in an unsigned article, illustrated by views of buildings designed by Messrs. Stickney & Adams.

In an article on Hospital Planning by S. S. Goldwater, M.D., Superintendent of the Mount Sinai Hospital, New York, while conceding the correctness in theory of the provision for each patient of the environment best suited to his condition and need, believes that economic necessities will continue to compel the housing of a majority of patients in large wards. Doctor Goldwater has presented the subject along these lines and embodies in his article many practical suggestions.

Mr. W. B. Bamford contributes an article on "A Contract Between Architect and Owner," in which is included a form of agreement. This is in the nature of a series of suggestions which should be incorporated rather than a form for universal use.

A detailed list of the illustrations in the September Brickbuilder will be found elsewhere in this issue.

In an editorial in the Western Architect for October the editor regards the appointment of a Commission of Fine Arts for the District of Columbia as a solution for the Capital City of the problem of harmonization of civic centers. We quote: "The heterogeneous and hodgepodge erection of skyscrapers, laying out of walks and planning of apartment buildings without regard to neighboring structures as exemplified by many of the principal sections of New York, Chicago and Philadelphia is to be foregone in Washington."

The suggestion recently made by Colonel Roosevelt that a statue be erected to the memory of the late Russell Sage Hall, Northfield Seminary, Delano & Aldrich, Architects

Frederick Remington is warmly indorsed. Writing of Remington's contribution to what may be truly styled American Art, we read, "His types were American types; the very quintessence of border life. It is fortunate for America that out of the hustle and jam, the commercial strife and materialistic battle, the man Remington seized the golden opportunity to crystalize the artistic elements of the time in bronze and on canvas."

Mr. Milton Dana Morrill has contributed an article to this issue on "Inexpensive Homes of Reinforced Concrete." He premises: "The inexpensive sanitary home is an essential element in the solution of the problem of congestion. We cannot spread our population unless we can furnish suitable homes within the rent-paying power, or better, within the purchasing power of our masses."

The article is a plea for the simplest and most rational forms for the material combined with correct

House and Garden at Oyster Bay, L. L., N. Y., Carrère & Hastings, Architects

(From The Brickbuilder.)

House and Garden at Oyster Bay, L. L., N. Y., Carrère & Hastings, Architects

(From The Brickbuilder.)
While most of the topics discussed have had previous publication in the technical press, it will be found convenient to have them grouped, as in the present instance, in one article.

The International Studio for November continues its series of illustrated articles on Recent Designs in Domestic Architecture. The illustrations present a good appreciation of the handling of exterior materials in accomplishing a well-balanced design. Particularly in the planning are these examples of moment. To say that the English architect has profited by the example set by his American brother may not be well received on the other side of the Atlantic, but in the present instances we detect a plan that is something of a departure from the English style and more in accordance with modern domestic habits.

This issue contains articles on Frederic Crowninshield, director of the American Academy in Rome, Mr. Arthur Hoeber's appreciation of the work of John C. Johansen, the usual entertaining Studio Talk, and many illustrations (all good) and notes of current work in the field of art.

The New York Architect for October confines its illustrations to the Hudson County Court House, Jersey City, N. J., of which Mr. Hugh Roberts is the architect. The text contains the first of a series of articles on "The Achievement of American Artisans," and an account of the recent movement of the Fifth Avenue Association toward guiding architecture on that thoroughfare. This interesting project was fully outlined in an interview with Mr. John M. Carrère, printed in the American Architect some weeks ago.

We have received no issue of The Architectural Review since that of February, 1910.

Aproportion and well-defined standards of line and color. Along these lines the author presents a well-written argument, and shows as illustrations several types of houses and their floor plans, which have been recently erected, as showing a rational tendency toward inexpensive, well-designed houses.

An article entitled, "The Fire-proof House as the American Type," appears mainly as a vehicle to carry numerous illustrations of house designs by a firm of New York, most of which were fully illustrated in the American Architect some time ago.

The illustrations in Architecture for September are of the accepted design by Messrs. Palmer & Hornbostel for the Oakland, Cal., City Hall, and the recently completed Union Theological Seminary in New York. Messrs. Allen & Collens, architects. The latter subject was, as to its exterior, very fully presented in the American Architect of October 12, 1910. In addition to very complete criticisms of the subjects illustrated, the text contains an article by Mr. Albert Moyer, Associate of the American Society of Civil Engineers, on Stucco. The author, after a short reference to the archaeology of stucco, gives formula for various finishes to the final coat, its proper mixture and specifications...
RESIDENCE OF MR. CARLTON MACY, HEWLITT, L. I.

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FARM COTTA'E

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ARCHITECTS ASKED TO DESIGN GOVERNMENT BUILDINGS

CONTEST ENDS DECEMBER 30

Three limited competitions for the selection of architects for the three buildings for the departments of State, Justice, and Commerce and Labor have been instituted, the programs having been approved by the President, Secretaries Knox, MacVeagh and Nagel and Attorney-General Wickersham.

The buildings will occupy the land bounded by Pennsylvania Avenue, the Mall, Fourteenth and Fifteenth streets. Provision has been made for an expert commission of award, to report on the relative merits of the designs, but the names of the judges will not be made public at this time.

With the exception of Daniel H. Burnham, of Chicago, and E. V. Seeler, of Philadelphia, who declined to enter the competitions, most of the eminent American architects are included in the list of sixty. Mr. Burnham declined in consequence of his position as president of the fine arts commission.

LIST OF COMPETITORS


Department of Justice—Cass Gilbert, New York; Trowbridge & Livingston, New York; Donn Barber, New York; Carrère & Hastings, New York; Howells & Stokes, New York; Frost & Granger, Chicago; Parker & Thomas, Baltimore; Bliss & Faville, San Francisco; Percy Griffin, New York; Bannister & Schell, New York; Butler & Rodman, New York; Edward Pierce Casey, New York; Albert Randolph Ross, New York; Lord & Hewlett, New York; Palmer & Hornblotst, New York; Delano & Aldrich, New York; C. H. Blackall, Boston; Andrews, Jaques & Rantoul, Boston; Wheelwright & Haven, Boston; C. L. W. Eidlitz, New York.

Department of Commerce and Labor—Wood, Donn & Deeming, Washington; Peabody & Stearns, Boston; Bigelow & Wadsworth, Boston; Eames & Young, St. Louis; T. C. Link & Son, St. Louis; S. C. Babb, Cook & Welch, New York; York & Sawyer, New York; Donaldson & Meier, Detroit; Holabird & Roche, Chicago; Abram Garfield, Cleveland; Tracy, Swartwout & Litchfield, New York; LaFarge & Morris, New York; George B. Post & Sons, New York; Mauran & Russell, St. Louis; Richards, McCarty & Bulford, Columbus, Ohio; J. H. Friedlander, New York.

COST AND ARRANGEMENT

The limit of cost fixed for the Department of Justice is $4,000,000; the Department of State, $2,000,000, and the Department of Commerce and Labor, $3,650,000. The buildings for the departments of State and Justice will be three stories and basement; that of Commerce and Labor will be five stories and basement.

The ground area of the building for the Department of Commerce and Labor will be 90,000 square feet; that of the Department of State, 72,000 square feet, and that of the Department of Justice, 57,000 square feet.

The competition will close December 30. The programs have been made for an expert commission of award, to report on the relative merits of the designs, but the names of the judges will not be made public at this time.

The building for the Department of Commerce will contain offices for the Secretary, three assistant secretaries, director of the consular service, councilor and solicitor, bureau of fisheries, bureau of navigation, bureau of lighthouses, assistant secretaries, chief clerk, disbursing officer, attorney in charge of titles, assistant attorneys, division of accounts, escheator's bureau, etc. A feature of this building will be the state dining-room, two diplomatic reception rooms and an international conference, the last named occupying 6,000 square feet of floor space.

In the building for the Department of Justice, which will contain 225 rooms, accommodations will be provided for the Attorney-General, the solicitor general, the assistant to the Attorney-General, seven assistant attorneys general, the chief clerk, mail and files division, superintendent of prisons, bureau of investigation, library, public lands division, appointment clerk, pardon attorney, disbursing officer, attorneys in charge of titles, assistant attorneys, division of accounts, stenographic bureau, etc. A feature of this building will be the law library. This room and the adjacent reading room will have a combined floor area of 7,500 square feet. The main stack room, which will be located on a mezzanine floor, will have 12,000 linear feet of shelf space.

In the building for the Department of Commerce and Labor accommodations will be provided for the Secretary, two assistant secretaries, chief clerk, disbursing officer, attorney in charge of accounts, solicitor, bureau of corporations, statistics, manufactures, lighthouse, labor, census, investigations, immigration and naturalization, navigation, fisheries, coast and geodetic survey, steamboat inspection service; the library, correspondence sections, law section, computing division, tariff division, consular division, and the division of internal commerce, of compilation, of publications and of supplies and accounts. The census bureau alone will require 7,500 square feet of floor space. A feature of this building will be an aquarium for the bureau of fisheries, which will occupy 28,000 square feet of floor space. The building will contain 450 rooms.

NOTES ON TOWN PLANNING

THE REPLANNING OF PARIS

The great improvement scheme for Paris which has been so long under consideration is at length taking definite shape. It will be remembered that, as we duly recorded at the time, a loan of $180,000,000 for expenditure on public works was authorized last December. It is now announced that a first issue of $47,000,000 will be soon made by the city of Paris, whose Council is preparing for presentation a list of the works that are at once to be taken in hand.

The loan is to be entirely devoted to what may be regarded as being almost purely town-planning objects, but, of course, in the process of widening and beautifying the streets, sanitation will claim a considerable amount of attention, and will involve a good deal of expense; and other important works of
utility will be taken in hand. For instance, the central market (les Halles) will be completed, and its approaches improved; while the municipal abattoirs are to be rebuilt. The continuation of the Boulevard Haussmann up to the Grands Boulevards, and the widening of the Rue de Bac, will doubtless involve much demolition and rebuilding. Further, hospitals are to be built, and some old ones will be rebuilt; so that altogether the architects' share of the disbursements will not be exactly insignificant; and they are to be congratulated on their opportunities of investing Paris with renewed architectural interest.—The Architect and Builder's Journal.


canberra, the Australian Federal City

The Commonwealth Government having selected Canberra, in New South Wales, as the site of the proposed Federal capital, it has been decided to invite competitive designs for laying it out from all parts of the British Empire. In anticipation of this an elaborate survey has now been commenced. The boundaries of the new Federal territory will first be delimited, and then a contour survey of the city proper made. When this has been completed lithographic plans will be printed and sent to all parts of the Empire, with the fullest information for intending competitors, who will have to make provision for the location respectively of the viceregal residence, Parliamentary buildings, public offices, university, military barracks, and other groups of buildings. The site, which is one of the most beautiful in Australia, affords abundant facilities for the construction of one of the finest modern cities in the world.—Architect and Contract Reporter.

The Electric Railway in City Planning

City planning is now receiving a great deal of attention as a result of an international conference on the subject in England, and many instructive comments on civic centers, main lines of travel, street cross-sections and the grouping of municipal buildings have been made. But the greatest practical influence on the actual location of the people of a city, at least, an American city, is wholly left out of sight. This is the electric railroad. It is more influential in determining where people will live than public squares, breathing places and lines of shade trees, and yet the only consideration it receives from the average city planner is in connection with the position of the tracks on the streets. We hear a great deal about the arrangement of boulevards, main avenues and side streets, but everything seems to be based on vehicular travel. This is all the more surprising when the careful attention paid to electric railway facilities by promoters of new enterprises is considered. A well-run electric railway will knock into a cocked hat all the theoretical plans of development that the most artistic civic beauty specialist can devise. It has built up the suburbs of our cities in an astonishing fashion, and now that some of our roads are handling express and freight it is pretty hard to tell just what this new influence cannot do. It is time to forget the car horse and to keep in mind the trolley wire. It is a waste of time to plan playgrounds and civic centers and keep them from being spoiled by the clanging electric car, for the latter will go somewhere else, and the trend of population will be with it. Convenience means a great deal to people who work long hours for moderate returns, and the electric road is the most convenient thing in the lives of most of them.—Engineering Record.
THE AMERICAN ARCHITECT

November 26, 1910

PERSIA PROHIBITS ANILINE DYES IN RUGS

The Persian Government has modified its decision of January 9 last, and has postponed until June, 1912, the date upon which, in accordance with the customs regulations, the exportation of carpets and rugs dyed with aniline colors or colors in the composition of which aniline enters shall be rigorously prohibited. Some exports to the United States had been held up on this account. Ordinarily these dyes may be detected by wetting and rubbing with a white cloth. They come away upon the cloth or spread in the wet place. Silk rugs of Tabriz seem to be frequently thus dyed.

FIREPROOF HOUSES

Architects practicing in towns where the building laws are lax would do well to invite their client's attention to the relatively slight increase in cost which results when fireproof floors and partitions are substituted for the more customary wooden construction.

There is not only the gain in durability and freedom from fire risk, but such construction presents the added advantage of being practically sound proof. If alternative bids were invited, clients could in very many cases be induced to adopt the better method of building, when otherwise the more antiquated mode would prevail through default on the part of the professional adviser.

MEDALS FOR OWNERS

As stated in these columns some time ago, the New York Chapter of the A. I. A. offered medals to owners of apartment houses for the building of best architectural designs erected and completed within three years prior to Dec. 31, 1910. The secretary of the Chapter, Mr. Frank H. Holden, now requests owners to send to him photographs of such buildings as they desire to enter in this competition. Mr. Holden's address is 1170 Broadway. We commend the action of the New York Chapter as a precedent that could be successfully followed by other Chapters. Owners receiving the Chapter medals will not be slow to see the immense advantage that would accrue and the enhanced importance of a building as to its rental value, that has been declared architecturally good by so competent an authority. This action, initiated by the New York Chapter will we believe, have a far-reaching influence in impressing upon owners the commercial value of good architecture and halt a certain class of construction that has become an eyesore.

A NEW DIRECTOR FOR THE METROPOLITAN MUSEUM OF ART IN NEW YORK

At a meeting of the board of trustees of the Metropolitan Museum of Art, held in New York on October 31, Edward Robinson, who has for the last year been acting director of the museum, was elected director to fill the position vacated by Sir Caspar Purdon Clarke, who resigned last June on account of ill health.

Mr. Robinson's selection has been received in art circles with unqualified satisfaction, as one wherein the appointee was eminently fitted for the position. Further satisfaction has been generally expressed by reason of the fact that Mr. Robinson is the first native American ever placed at the head of the Museum.

Mr. Robinson was formerly director of the Boston Museum of Fine Arts and is an authority on classical art and antiquities.

A COLossal CONCRETE STATUE

What may become one of the most famous statues in the world stands above Eagle's Nest, across the river from Oregon, Ill. It has been in process of making three years and is now near completion. It is constructed of concrete. The Indian figure, which is forty-eight feet high, stands facing the south, looking down the river. The head and profile and folded arms appear perfect in detail as they are outlined against the sky and forest from many viewpoints around the country.

The claim of the statue to fame lies in three things: First, any one may read its message. Second, the statue's great size, forty-eight feet, without counting either the artificial base or the natural rock foundation 250 feet high on which it is placed, puts it on a scale with the Goddess of Liberty in New York harbor and the great statue of "The Pilgrim" on the New England coast.

The third and greatest claim to fame is that it is built to be permanent.

COLLAPSE OF A SPRINKLER TANK

At 6 a. m., July 18, 1910, without any warning the 5,000-gallon sprinkler tank of the West End Theater, New York, elevated twelve feet above roof of stage portion, collapsed, and staves and contents of tank fell on roof over stage, on auditorium roof, on roof of adjoining flat house and on to street. The rush of water across stage roof carried four staves over the three-foot parapet wall and down to sidewalk of Hancock place, together with a six-foot length of two and one-half by sixteen-inch marble coping. Fortunately no one was passing at the time, as this is a drop of seventy-five feet. A large quantity of water entered the skylight and fell to the center of the stage.

The tank was of cedar, installed in 1902, and constituted the only water supply for the sprinkler equipment over the stage portion. There were nine ordinary flat hoops on the tank, the bursting of one of which must have caused all remaining hoops to give way simultaneously.

An examination of hoops after accident shows that they were as thin as paper in many places, and it is remarkable that a collapse did not occur long before this. The attention of the occupants had been called to the condition of these hoops as far back as June, 1906, but they did not feel disposed to make any change.—Quar­terly of the N. F. P. A., October, 1910.

CARNEGIE LIBRARIES IN INDIANA

At the recent annual meeting of the Indiana Library Association the president reported that twenty-two public libraries had been built in that State during the past twelve months through gifts of Andrew Carnegie. Of these, six are in Indianapolis. The association recommended the erection of a separate fireproof building for the State Library at the Capitol.
INDUSTRIAL
Kahn System Specifications

The above is the title of a book recently issued by the Trussed Concrete Steel Co. of Detroit, Mich. This little volume will be found a particularly valuable work of reference in concrete construction and one in which the architect will find ready solutions to many problems that occur in practice.

The rapid growth of concrete construction has made necessary a handbook on design similar to those published in connection with the use of structural steel and other building materials. This work would seem to supply such a demand, as it presents to the designer necessary a handbook on design similar to those published in connection with the use of structural steel and other building materials. This work would seem to supply such a demand, as it presents to the designer necessary a handbook on design similar to those published in connection with the use of structural steel and other building materials. This work would seem to supply such a demand, as it presents to the designer necessary a handbook on design similar to those published in connection with the use of structural steel and other building materials. 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This work would seem to supply such a demand, as it presents to the designer necessary a handbook on design similar to those published in connection with the use of structural steel and other building materials.

All the data, it is stated, are based on a most extensive experience in reinforced concrete work and include the practical knowledge gained in the construction of more than five thousand important structures, embracing every type in which concrete is used.

While the work as presented deals mainly with the Kahn Trussed Bar and other Kahn system products, the principles and treatment employed are readily applicable to any type of reinforced concrete work. All these are very fully illustrated and described in this useful book, which may be had by architects upon request.

INDEX TO CURRENT AMERICAN ARCHITECTURAL LITERATURE AND ILLUSTRATION

ILLUSTRATIONS


Jersey City Hospital, Jersey City, N. J., Clinton & Russell, Architects. Exterior photographs and plans. The Brickbuilder, September, 1910.

Lawrence Hospital, Bronxville, N. Y. Wilder & White, Architects. Exterior photograph and plans. The Brickbuilder, September, 1910.


Residence for F. H. Ferguson, Louisville, Ky. Kenneth Mc-
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**ALABAMA**

**BIRMINGHAM.**—Council has instructed the Building Inspector to ask for bids for improving city buildings at Ensley.

**Huntsville.**—J. E. Pennys is considering erection of department store building.

**MONTGOMERY.**—Council is considering purchase of site at Monroe and McDonough Sts. for erection of police station.

**Tuscaloosa.**—Gymnastics Committee of Y. M. C. A. is considering plans and estimate of cost of erecting gymnasium.

**M. P. Jemison, Chairman.**

**Swift Fruit and Nut Plantation, Inc., 706-709 Marquette Bldg., Chicago, Ill.**

**Yellow Pines.**—Bids will be received until Jan. 1 by Pinehurst Fruit and Nut Plantation, Inc., 706-709 Marquette Bldg., Chicago, Ill., for building and furnishing material of twenty frame houses, one school building, stables, packing shed, canning factory building, and ice plant building on Pinehurst Fruit and Nut Plantation, near this city: prices on lumber specified can be secured from E. W. Gates Lumber Co., Yellow Pines, Ala., and the Vinegar Bend Lumber Co., Vinegar Bend, Ala., A. Robertson Land & Lumber Co., Chicora, Miss.: prices on brick from Jett Bros., Mobile, Ala., and on hardware from Barney Cavanaugh Hardware Co., Mobile.

**ARKANSAS**

**Fort Smith.**—Wallace Invalid Bed Co. is contemplating erection of factory in this city.

**Hazen.**—Bank of Hazen will erect two-story brick bank building. A. J. Sneed, President.

**Paragould.**—Erection of $25,000 Y. M. C. A. building is being considered.

**AUBURN.**—School District will soon vote on bonds for erection of school.

**Birmingham.**—California Institution of Deaf and Blind is considering rebuilding of manual training school, destroyed by fire.—Douglas Keith, Superintendent.

**Grass Valley.**—Local Lodge of Elks will erect club house next spring, Louis A. Walsh.

**Los Angeles.**—Erection of large building with chapel at University of Southern California is being considered. Rev. T. H. Woodward, of Whittier, is interested.

**Los Angeles.**—Burger and Burger will erect four-story $35,000 warehouse on Palm St.

**Oakland.**—Extensive additions will be made to Nile Club House at Thirteenth and Grove Sts.

**Oakland.**—Knights of Columbus have purchased site at Tenth and Oak Sts. for erection of home. K. A. Minor, President.

**Pomona.**—Architect Robert H. Orr has completed plans for erection of proposed Congregational Church.

**Sacramento.**—Site is now under purchase until 2 p. m., Dec. 5, for erection of court house. R. A. Herold, Bryte Bldg., architect: Wm. B. Hamilton, county clerk.

**Sacramento.**—Shea & Shea, San Francisco, have prepared plans for erection of $100,000 Catholic church at Oak Park. Rev. Wm. Ellis, Pastor.

**Sacramento.**—Southern Pacific has appropriated $600,000 with which to erect new passenger depot in this city next year. Wm. H. Woodward, of Whittier, is interested.

**San Francisco.**—Congregation Emanuel-El will erect $500,000 synagogue at Van Ness Ave. and Sutter St. L. Sachs, President.

**Williams.**—School District has voted $25,000 bonds for erection of high school.

**CONNECTICUT**

**Bridgeport.**—Architect T. F. Kelley has completed the plans for three-family house on Beechwood Ave. for John Miller.

**New Haven.**—Mrs. C. J. Armitage has had plans completed for erection of residence on Pond St.

**WATERBURY.**—Plans have been completed by Architect C. A. Keetch, Jr., for erection of frame residence on Grandview Heights for Albert Schumacher.

**Washington.**—Architect C. Jerome Bailey, 65 Bank St., has completed plans for a residence on the Bunker Hill Road for Carmine Martone; also for three-story tenement house on Walnut St. for Thomas Donohue.

**Plans have been prepared for immediate erection of machine shop on Bank St. for the Waterbury Farrel Foundry Machine Co. Griggs & Hunt, 31 Leavenworth St., architects.**

**St. Margaret’s Church will erect parochial residence next spring. Louis A. Walsh.**

**WILLIAMSTOWN.**—Rossie Velvet Co. is considering erection of factory. Board of Trade is interested.

**DELAWARE**

**Seaford.**—Masons are considering erection of three-story brick store and lodge building.

**DISTRICT OF COLUMBIA**

**Washington.**—Alumni of Central High School are urging erection of new Central school building and will take up the matter with the District Commissioners and with Congress. W. V. Cox, President of the Board of Education, is interested. Association of the Oldest Inhabitants of the District of Columbia has instructed its home committee to submit plans for the enlargement and improvement of Union engine house at Nineteenth and H Sts. N. W.

**V. E. Evans will erect seven-story office building on F St. N. W.**

**Equitable Co-operative Building Association is considering erection of home.**

**Washington.**—Bids will be received until 2 p. m., Nov. 21, for erection of addition to McKinley Manual Training School, Rhode Island Ave. and Seventh St., N. W., C. H. Rudolph, Chairman, District Commissioners.

**Washington.**—W. H. Sholes will erect four-story $75,000 brick and concrete building at 1769 Lanier St. N. W.

**FLORIDA**

**Jacksonville.**—Plans for fifteen-story office building to be erected at Corner of Forsyth and Laura Sts., by E. H. Tomlinson, J. G. Boyd, of this city, and J. J. Heard, of Arcadia, are now being drawn. St. Peterburg.—J. A. Vandevert will erect three-story, concrete block, rooming house, on Third Ave. South.

**GEORGIA**

**Atlanta.**—East Atlanta Bank, Flat Shoals and Glenwood Aves., will erect $5,500 building. E. A. Minor, President.

**MACON.**—Dr. Howard Williams has purchased site on Spring St. for erection of hospital and sanatorium.

**ILLINOIS**

**Chicago.**—Citizens have voted $3,500,000 bonds for erection of city hall.

**Hampton Club, 135 Monroe St., is considering erection of $200,000 club house at 148 Dearborn St.**

**Chicago.**—Congregation Bnai Sholom will erect edifice at East 53d St. and Michigan Ave. Decatur.—Architect will soon be selected to prepare plans and specifications for new Decatur and Macon County Hospital. Dr. Wm. Barnes is interested.

**School house will be built in Ridgeview district next summer. B. B. Jackson, Superintendent of Schools.**

**East St. Louis.**—Sisters in charge of St. Mary's Hospital on Missouri Ave. have decided to erect $15,000 six-story hospital at Twenty-ninth and State Sts. Geo. Pfeiflenberger, Sexton Bldg., Architect.
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Moline.—Y. M. C. A. has purchased site at Fifth Ave. and Eighteenth St. for erection of building.

Peoria.—Architects Reeves & Battie have prepared plans for erection of proposed Douglas school building.

Indiana

Elkhart.—Bids will be opened Dec. 7 for erection of $75,000 high school. E. H. Turmback, architect. Emil Anderson, chairman school board.

Evansville.—John Hendrick will erect $25,000 residence on Upper First St., Shope & Co., Architects.

Greentown.—Cosmo Ellwood and Willard M. Ellwood, architects, Elkhart, have been commissioned to prepare plans for a twenty-room manual training high school. A. S. A. Fletcher, Fletcher American National Bank, will erect residence on Millersville Road. Hibben, Holwell & Co. will erect eight-story building at Meridian and Georgia Sts.

Iowa

Bettendorf.—P. S. Junkin will rebuild structure destroyed by fire.

Cedar Rapids.—Star of the West Lodge No. 1, Knights of Pythias, has voted to accept plans prepared for proposed $17,000 Pythian building to be erected on First Ave. E. J. Ellinger is considering erection of three-story warehouse at 33 Cheapside St.

Des Moines.—The Farmers’ Co-operative Company will at once begin building of silo factory on South Eleventh St. Three story building will be erected. S. A. Helsel, agent, Iowa City, is considering erection of two-story brick building for Kiefer Land Co. R. H. Marr, 1529 Ford Bldg., Architect.

Sioux City.—Haley & Lang Building Co. has been incorporated. Building will be erected within year. Wm. G. Haley, resident.

Kansas

Emporia.—President Jos. H. Hill, Normal School, has asked for $200,000 appropriation for erection of auditorium and improvement of main building.

Kentucky

Lexington.—The Knights of Pythias of Kentucky are preparing to build addition to present home, which will be used as girls’ dormitory and will cost $20,000.

Louisville.—Hugh L. Niven is planning to erect $75,000 apartment house at Fourth Ave. and Oak St.

Louisville.—Jefferson County has voted $500,000 bonds for improvement of schools. Citizens have voted $1,000,000 for proposed City Hospital. W. O. Head, Mayor.

Maine

Portland.—Plans have been prepared for erection of proposed club house for Portland Power Boat Association. Commodore E. A. Clark, Chairman Building Committee.

Maryland

Baltimore.—E. J. Ellinger is considering erection of three stores at Saratoga and Holliday Sts. Architect W. M. Gieske, Equitable Bldg., is preparing plans for erection of $8,000 residence at Sherwood station. Citizens have voted $7,500,000 bonds for schools and other improvements.

Baltimore.—Griffin Cook will erect residence on Charles St. Jos Evans Sperry, Calvert Bldg., Architect. Isaac N. Cooper will erect sixteen two-story brick houses on Madison St. Henry J. Finley, Architect. Mrs. Howard Biscone will erect $6,000 residence on Cedarcroft Road.

Baltimore.—Architects O. G. Simonson, American Bldg., and W. H. McElstrick, 1402 Broadway, New York City, have prepared plans for erection of $100,000 theater on Fayette St.

Plans for new addition to the plant of the J. S. Young branch of the MacAndrews & Forbes Company, on Boston St., have been finished by Architect C. M. Anderson, 224 North Charles St.

Architect Henry J. Finley is preparing plans for warehouse and factory building to be built at Central and Fairmount Aves. for Eugene Blake.

Baltimore.—Charles E. Litzinger will erect two-story brick dwellings on Thirty-sixth St., to cost about $21,000. F. E. Beall, 213 St. Paul St., architect.

Plans for $5,000 home and store of Julius Grotsky, to be erected at Severn Park, have been completed. John T. Murphy, Lombard St., is considering erection of four-story warehouse at 35 Chopipec St.

Baltimore.—Plans for the new Empire Civic Theatre, to be erected at 311 to 317 West Fayette St., are being prepared by W. H. McElstrick and O. A. Simonson and will be finished in time for estimates on January 1.

E. W. Herndon is having plans made by Wyatt & Nolting, Architects, for $100,000 residence to be erected at Midland Road and Kittney Lane, Religion Park.

Cambridge.—Leon Wilde Crawford, Architect, 910 Market St., Wilmington, Del., has had accepted his plans for new church for Zion M. E. Congregation.

Massachusetts

Boston.—The Denison House will erect $50,000 addition. R. W. Hale, 60 State St., is interested.

Holyoke.—School Committee will ask city to erect new school buildings next year.

New Bedford.—Council Committee on Education will recommend that steps be taken to ascertain cost of erecting proposed industrial school.

Michigan

Ann Arbor.—Board of Regents, University of Michigan, will consider erection of $200,000 auditorium.

Bay City.—Bids will be received by Board of Health until Nov. 21 for erection of proposed detention house.

Coldwater.—Western Reserve Condensed Milk Co., Cleveland, O., is interested in proposed erection of factory in this city.

Detroit.—Bids will be received until about Dec. 1 for erection of eight-story office building, cost $100,000, at Gratiot and Farrar Sts. for Kiefer Land Co. R. H. Marr, 1529 Ford Bldg., Architect.

Detroit.—J. L. Selling, 4 Monroe Ave., will erect two-story store building on Broadway.

Escanaba.—Citizens have voted $15,000 bonds to erect and equip Seventh Ward Fire Station.

Grand Rapids.—Board of Trustees of United Benevolent Association is considering erection of $250,000 hospital. John W. Blodgett, President.

Kalamazoo.—Lake St. Mission has had plans prepared for erection of office. Rev. V. L. Montgomery, North Presbyterian Church, is interested.

Lansing.—Bids will be received until noon, Dec. 14, for erecting proposed hospital. E. A. Bowd, Architect. J. H. Moore, 1331 E. Allegan St., President E. W. Sparrow Hospital Association.

Monroe.—Monroe Machinery Co. is considering enlargement of plant.

Minnesota

Chisago.—School Board will soon call for bids for erection of proposed Lincoln School.

Duluth.—Bray & Nyström, Palladio Bldg., are preparing plans for $6,000 frame and stucco residence to be built for N. C. Clark on Second St.

Eveland.—Committee, Sergeant Peter Nordi, chairman, is considering plans for erection of two-story brick hall for Italian Societies.

Minneapolis.—Harry W. Pence will erect auto warehouse at Eighth and Washington Aves.


St. Paul.—A. L. Garlough, architect, 25 Union block, has prepared plans for two-story frame duplex which H. P. Conradi will erect at Nelson and Virginia Aves.

L. W. Johnson & Bros., 521 York St., will erect on Payne Ave. a $5,000 two-story brick store and flat building.

St. Paul Bread Co. will erect $150,000 baking plant at Robert and Twelfth Sts. and Minnesota Ave.

Virginia.—Architects F. L. Young & Co., Palladio Bldg., Duluth, have prepared plans for improvements and additions to Tower Hotel for Harry Selberg.
The Ingham Shower Mixer

Saves Money for Hotels Equipped with Shower Baths

It saves money in the first place, by saving water.

In shower baths where the Ingham Mixer is not used, the bather almost always runs the water through the shower head for some time, constantly adjusting the valves until the temperature of water desired is secured.

This water waste is entirely eliminated by the Ingham Mixer, as the bather simply turns the handle to a given point in order to secure, almost instantly, the temperature of water desired.

With a number of rooms equipped with showers, this is a big saving in the course of a year.

Another point of great economy is this: The Ingham Mixer is the only mixer which will mix either hot water or steam with cold water and give positive safety to the bather against excessive water temperature. Consequently either hot water or steam may be piped direct to the Mixer, and to pipe steam through the building is much cheaper than to pipe hot water because of the comparatively small size of the steampipe and the consequent saving in material and installation.

Moreover, steam is an ever present commodity in Hotel buildings, while hot water must be especially provided for.

These are simply examples of the many valuable features of Ingham Shower Mixers.

The Ingham Mixers have proven successful in all kinds of installations and have been specified by many of the leading Architects of this country.

If you are planning shower baths for Hotels or any other kind of building, you will find it well worth while to write for a copy of our booklet "The Luxury of Shower Bathing."

The Imperial Brass Mfg. Co.

441 So. Jefferson Street, CHICAGO
MISSISSIPPI

Biloxi.—Local Masonic Lodge has decided to issue $20,000 bonds for construction of a three-story building at corner of East Howard Ave. and Main St.

Gulfport.—Mississippi Coast Country Club will erect $10,000 club house. J. A. Jones, President.

McComb City.—Owners of Goldfield Mineral Wells Hotel, destroyed by fire, will erect $60,000 brick and concrete building.

MISSOURI

Lexington.—Bids will be received until 3 p. m., Dec. 19, for complete construction of post office. Jas. K. Taylor, Washington, D. C., Supervising Architect, Treasury Department.

MONTANA

Miles City.—Plans have been prepared by Link & Haire, Helena, for a two-story brick and concrete addition to court house.

NEW JERSEY

Atlantic City.—Architect Harry De Hoff, of Philadelphia, Pa., is preparing plans for five-story $60,000 apartment house, to be erected at Connecticut and Atlantic Aves., for Dr. B. H. Warren.

Bayonne.—Company I, Fourth Regiment, N. G. N. J., has asked Council to provide a site for erection of armory.

Bayonne.—The Standard Oil Co., of 26 Broadway, Manhattan, is now receiving estimates for the erection of $75,000 oil tank factory at Constable Hook.

East Orange.—Mrs. Florence Nichols will erect $18,000 residence on Munn Ave. Geo. E. Teets, 26 Washington Pl., Architect.

Elizabeth.—E. V. Warren, 22 Clinton St., Newark, has drawn plans of six-family frame dwellings to be erected in Rutledge Ave. for Charles A. Morel. Cost about $25,000.

Elizabeth.—Adolph Wagner will immediately begin erection of two two-family houses at 33 and 41 De Hart Pl.

Elizabeth.—C. H. Ritter, Empire Theatre, Red Bank, is having plans prepared for erection of $80,000 theatre on Irving St.

G. Godfrey Fogg, 2 Julian Pl., will prepare plans for erection of proposed high school.

Bids are being procured by Oakley & Son, architects, 1201 E. Broad St., for thirty-six-family apartment house to be erected at West Grand and Union Sts., for Clinton Gilbert.

Jersey City.—From plans prepared by Architect William H. Bogart, 712 Bergen Ave., two apartment houses will be erected on Vesper and Noseland Ave. for Charles Auerbach; cost, $14,000.

Jersey City.—From plans prepared by Architect Nathan Welitoff an $8,000 six-family flat will be erected at 22 Randolph Ave. for Levin & Petika, 53 Avenue C, Bayonne.

Jersey City.—From plans prepared by Architect William E. Lehman, 726 Broad St., Newark, $20,000 warehouse and stable building will be erected by the National Biscuit Co., of Tenth Ave. and Fifteenth St., New York.

Plans are being prepared by Architect Leo Feinen, 3549 Boulevard, for $8,000 two-family residence on corner of Hague St. and Boulevard, by August Miller, Nelson Ave. and Grace St.

Millville.—Trinity P. E. Church will at once let contract for erection of $25,000 parish house.

Newark.—Klingel & Turney have had plans drawn by S. J. Kutz for three-story frame flat building, with accommodations for three families, which they contemplate erecting soon at 248 Smith St.

Walter J. Aschenbach, 349 Plane St., has drawn plans of $5,000 frame dwelling to be erected for Mrs. Rosa Gelb at 104 Ridgewood Ave.

H. L. Bauman will erect $2,800 commercial building, of brick construction, at 37-39 William St., after plans by Nathan Myers, 238 Washington St.

Riverside.—Architect Clyde S. Adams, 1253 Arch St., Philadelphia, is designing a $10,000 residence for Dr. S. W. Collins.

Trenton.—Trenton Potteries Co. will soon take bids on erection of $6,000 addition to plant on Muirheid St. Abram Swan, Sr., Architect.

NEW MEXICO

Las Cruces.—New Mexico College of Agriculture and Mechanic Arts is considering erection of new building.

Las Cruces.—St. James Episcopal Church, Mesilla Park, will erect residence next spring. Rev. Hunter Lewis, Pastor.

NEW YORK

Albany.—Methodist Church at Green Island is considering erection of edifice on Hudson Ave. Rev. Clarence Miller, Pastor.

Baldwinsville.—Rochester, Syracuse & Eastern Railroad is planning to erect depot in this city.

Brooklyn.—Prospect Park Bank, 885 Flatbush Ave., will expend $25,000 in improvements. Wm. D. Buckner, President.

Fenimore St. M. E. Church will erect $25,000 edifice at Fenimore St. and Bedford Ave. Benjamin Driessler, 176 Renssen St., Architect. Rev. L. H. Caswell, Pastor.

Shampan & Shampan, 772 Broadway, are preparing plans for six-story limestone and terra cotta bank and office building which is to be erected at Graham Ave. and Siegel St. for A. L. Kass.

Queens Borough Public Library budget for coming year will include sum sufficient for construction of building in Brooklyn Manor section.

Brooklyn.—Plans are being prepared by Superintendent of Schools Snyder for erection of proposed Bushwick High School; bids will soon be asked.

Brooklyn.—Manuel A. Esteva, vice consul of the Mexican government, next spring will erect residence at Windsor Ave. and South Country Road, Brightwaters, Bay Shore, L. I. Tentative plans prepared.

Buffalo.—Plans have been accepted by Bishop Colton for erection of Catholic Cathedral at Delaware Ave. and Utica St. Cost, $500,000.

Buffalo.—Plans have been drawn by City Architect Howard L. Beck for proposed erection of Washington Market.

Architect C. K. Porter & Sohn, 73 W. Eagle St., have prepared plans for erection of $70,000 residence on Crescent Ave. for Cha. A. Hinkley.

Davenport.—Colson & Hudson, 35 Dun Blvd., Buffalo, are preparing plans for two-story $17,000 warehouse to be erected for Loesser Bros. Co.

Dodgeville.—International Pulp Co., Gouverneur, will, at once rebuild mill destroyed by fire; loss $100,000. A. J. McDonald, Superintendent.

Pulaski.—Pietro Massaro, Syracuse, is planning to erect three-story concrete factory on Wall St.

Le Roy.—Board of Trustees is considering erection of town hall.

Lowville.—Adirondack Maple Sugar Co. will at once erect plant. Charles Wisner & Son will superintend construction.

Mechanicsville.—Manufacturers' National Bank has appointed committee to obtain plans for erection of building on Main St.

New York.—Architects Schwartz and Gross, 347 Fifth Ave., have prepared plans for erection of eight-story $1,000,000 loft building on Cortlandt St.


Louisa Diener, 1768 Gleason Ave., will erect two frame dwellings, cost $11,000, at McGraw and Taylor Aves. B. Eheling, 1136 Walker Ave., Architect.

New York.—Greenstein & Mayer, 230 Grand St., will erect one-story brick stores and dwellings at cost of $14,000. C. E. Neyers, 1 Union Square West, Architect.

Michael A. Deho, 2305 Belmont Ave., will erect two one-story brick stores and dwellings, cost $15,000, on 187th St. M. W. Del Gaudio, 401 Tremont Ave., Architect.

New York.—Broadway and Park Place Co., 280 Broadway, will erect twenty-seven story brick and stone office building at
The Hardware for monumental public buildings is ordinarily selected on account of character and appropriateness. Cost is not a first consideration.

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Hardware and Locks, suitable in character and appropriate in design, have been used in many important public buildings.

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NEW YORK BOSTON PHILADELPHIA CHICAGO

SARGENT HARDWARE Is Obtainable Through Representative Hardware Merchants in All Cities
BROADWAY.—And Park Place; also a fifteen-story extension; plans filed for foundations to cost $500,000. H. Cass Gilbert, 11 E. Twenty-fourth St., Architect.

E. M. Woolworth will erect tall office building at Broadway and Park Place.

Seaboard Realty Co., 101 Park Ave., is considering erection of mercantile building at Park Ave. and Fortieth St. New York—Hudson Realty Co., is having plans prepared for erection of theatre building at Courtlandt Ave. and 149th St.

Joseph Diamond, 1139 Wyatt Ave., will erect two-five-story brick stores and apartment houses on Maple Ave.; cost, $125,000. North, 1093 Tremont Ave., architect.

Moore & Landsiedel, 195th St. and Third Ave., have filed plans for erection of number of apartment houses.

NEW YORK.—New York Telephone Co. will erect $500,000 office building at Main and Cedar Sts.

OSNAGDA.—Architect Charles E. Colton, of Syracuses, has prepared plans for modern schoolhouse building to be erected for District No. 26.

OSWEGO.—Plans prepared by Former School Superintendent Bull will be used for erection of brick vener school in Second Ward.

PORT CHEERIES. —Mayor-elect Sague will urge erection of high school building.

RAYNE. —Fred Roberts will erect dwelling next Spring on Van Buren St.

ROCHESTER.—Bishop Hickey is contemplating erection of Catholic church in vicinity of Main St. East and Culver Road.

Schenectady.—County Supervisors have decided to purchase site for erection of jail.

The A. G. Lindsey Co., Architects, Parker Bldg., have completed plans for two-room school building for district No. 10, Town of Colonie; firm is now working on plans for new theatre to be built in Schoharie by Dr. T. J. Kilmer.

Schenectady.—Plans will be prepared by Oren Finch, 437 State St., for three or four buildings for proposed County Tuberculosis Sanitarium.

SYRACUSE.—R. S. Weston & Co., 721 S. Clinton St., is planning to erect warehouse on South Clinton St.

SYRACUSE.—Plans have been prepared by Architects Makepeace & Makepeace for erection of fire house on Wolf St. for Engine Co. No. 4.

WATERLOO.—Site has been selected for erection of proposed postoffice. J. B. Mngin, Postmaster.

NORTH CAROLINA


FAYETTEVILLE.—Atlantic Coast Line has had plans prepared for erection of depot.

NORTH DAKOTA

BEACH.—First Methodist Church has decided to erect $10,000 edifice.

FARGO.—School Board is considering erection of school.

MEDORA.—Congregational Society has completed arrangements for erection of church.

OHIO

ASHLAND.—Bids will be received until Nov. 27 for erection of proposed $70,000 city hospital. F. L. Packard, Hayden Bldg., Columbus, Architect.

BASIL.—Architects Howard & Merriam, Capital Trust Bldg., Columbus, will have plans for eight-room modern school building to be erected next year between Basil and Baltimore.

CINCINNATI.—Herancourt Brewing Co. has had plans prepared for erection of iron and concrete structure at 1,495 Harris St. Ave.

CINCINNATI.—Board of Education has ordered issuance of $240,000 bonds for erection of proposed Fourteenth District School.

CINCINNATI.—Residents of Wyoming have voted bonds for erection of school.

CLEVELAND.—Commercial Building Co. has had plans completed for erection of $500,000 six-story building on Upper E. H. Norheim, T. M. Swetland, General Manager.

COLUMBUS.—Architect C. L. Insho, Brunson Bldg., has been commissioned to prepare plans for erection of school houses at Laurelville and Howard.

Architects Dawson and Holbrook, Outlook Bldg., are drawing plans for nine-room brick residence to be erected on Fifteenth Ave. for Daniel Krumm.

KENMORE.—Citizens have voted $7,500 bonds to improve high school building.

LOWELAND.—Citizens have voted bonds for school purposes.

MANSFIELD.—Citizens have voted $100,000 bonds to erect school; also addition to Hedges St. building.

OXFORD.—Architect Harry Hannaford, Hubert Block, Cincinnati, will prepare plans for erection of addition to school.

TOLEDO.—Harry Jenkinson and A. C. Wright will erect crosseting plant at Broadway and the Wabash tracks.

TOLEDO.—Toledo Club is considering erection of $200,000 club house.

TOLEDO.—Toledo Newspaper Co. will erect building at corner of Horton and Jackson Sts.

WEST JEFFERSON.—Architects Howard and Merriam, Capitol Trust Bldg., Columbus, have been retained as architects by Board of Education for construction of a new eight-room, semi-fireproof high school.

WOOSTER.—Dormitory, cost $100,000, will be erected at Wooster University. L. E. Holden, President.

OKLAHOMA

PAULS VALLEY.—First Baptist Church will erect $10,000 edifice.

OREGON

EUGENE.—Architect J. R. Ford is preparing plans for erection of residence on River Road for James Wall.

PORTLAND.—Architects Knighton & Root are planning erection of $75,000 apartment house on Upper Washington St. for E. J. Frohman.

PORTLAND.—Architect D. B. Flickinger has prepared plans for erection of residence for Mrs Ireland on Terwilliger Boulevard.

PORTLAND.—Plans are being prepared by Architects Knitson & Root for $75,000 apartment house to be erected at Corner of Washington and St. Clair Sts. for E. J. Frohman.

Architects Kroner & Hess are preparing plans and specifications for frame residence to be built in Laurelhurst for H. C. Griesel.

PENNSYLVANIA

E E K.—Erection of annex, cost $30,000, to St. Vincent's Hospital is being considered.

MEADVILLE.—Morgan Bros. will erect large brick building on N. 8th Water St.

PHILADELPHIA.—Architect Spencer Roberts, 26 S. Fifteenth St., is preparing plans for garage at Thirty-seventh and Ludlow Sts. for Loraine Motor Company.

PHILADELPHIA.—Catholic Church of the Transfiguration, Fifty-fifth St. and Cedar Ave., has had plans prepared for erection of $50,000 school and convent.

Architects Ballinger & Perrot, 125 Arch St., are preparing plans for one-story and basement church, at Tioga and F Sts., for St. Philip's M. E. congregation.

E. A. Wilson, Land Title Bldg., architect, is preparing plans for a four-story apartment house and twenty-nine three-story dwellings, at Fortyninth and Walnut Sts., for Calvin W. Rogers.

Architect H. J. Wetherill, 326 Chestnut St., is preparing plans for reconstruction of the residence at No. 150 Spruce St. into offices and apartments for Dr. R. F. Wood.

Architect Oliver Randolph Parry, 1723 Chestnut St., is designing one-story church at corner of Fifty-first and Brown Sts. for Christ congregation.

PHILADELPHIA.—Philadelphia Club, Thirteenth and Walnut Sts., is considering erection of $250,000 modern club house at Broad and Walnut Sts.

PITTSBURG.—C. J. Keller will have $200,000 brick and stone residence erected on Seaway St. from plans being drawn by M. Nirdlinger, Diamond Bank Bldg.

Architect Thomas Pringle will erect residence on Parkman Ave.

Architects Jennsen and Abbott, Ninth and Liberty Aves, are planning $50,000 stone residence to be erected on Woodland Rd. for J. L. Kendall.

Architects George Orth & Brother, 341 Sixth Ave., have pre-
If you are interested in detailing a wide opening for elevator fronts, let us send you a full size detail of the

**Krause Patent Lever Opener and Lock**

for operating two part elevator doors.

It is so smooth in its action, simple in its construction and free from mechanical imperfections that it will appeal to you as it has to many other Architects who are specifying it.

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New York Office: 302 Broadway
liminary plans prepared for erection of brick and steel ware­
house for Oil Well Supply Co. on Twenty-sixth St.
PITTSBURG.—R. D. Nuttall Company will erect $1,000,000
plant at Clarendon.
READING.—Franklin Brass Foundry Co. is planning to erect
modern factory at terminus of Schuykill Ave.
RIDGE PARK.—Borough is considering erection of Carnegie
Library. Frank D. Kane, Clerk of Council.
SCRANTON.—Plans have been prepared by Architect John J.
Howley for home for the Catholic Women’s Club at Wyoming
Ave. and Mulberry St.
SWARTHMORE.—Citizens have voted $60,000 bonds for erec­
tion of school.
RHODE ISLAND
PROVIDENCE.—City Hospital Commission has approved pre­
liminary plans for erection of proposed tuberculosis building at
City Hospital.
SOUTH CAROLINA
GREENVILLE.—Hotel, cost $30,000, will be erected on McBee
Ave. A. A. Gates is interested.
LAURENS.—Laurens Glass Works Co. will erect plant. N. B.
Dial, President.
SOUTH DAKOTA
LEAD.—Bids will be received until 3 p. m. Dec. 14, by James
Knox Taylor, supervising architect, Treasury Department,
Washington, D. C., for construction, complete, of proposed
postoffice.
TENNESSEE
CHATTANOOGA.—J. C. Howell will erect residence in Fort
KNOXVILLE.—Railroad Y. M. C. A. is considering erection of
building at Broadway and Depot Ave. A. C. Van Camp, Sec­
tary.
TEXAS
DALLAS.—First National Bank will erect $25,000 brick block
at Third St. and Denrock Ave.
DALLAS.—Dallas Coffin Co. will erect factory and ware­
house at Lamar and Bellevue Sts. Cost, $75,000. C. W. Bul­
ger, Pythian Bldg., Architect.
Rogers Library Association has decided to erect four-story
$25,000 hall. E. C. Blesi, Chairman Special Committee.
Erection of addition, cost $150,000, to St. Paul’s Sanatorium
is being considered.
GREENVILLE.—C. E. Jones and Will Wise will erect three mod­
er brick buildings on North Stonewall St.
GREENVILLE.—J. M. Gee, Mrs. Lizzie Mitchell and Mrs. Bertha
V. Samuel will at once rebuild structures destroyed by fire.
KINGSVILLE.—Brownsville Road will erect six-story office
building.
LINDEN.—City has decided to erect new high school.
M. K. NEER.—Preliminary plans have been prepared by Supervi­
sing Architect Jas. Knox Taylor, Treasury Dept., Washington,
D. C., for erection of proposed $60,000 post office.
ORANGE.—Y. M. C. A. is considering erection of $5,000
building.
PASTORIA.—Hotel Committee of Board of Trade is con­
ferring with H. H. Franko regarding proposed erection of
hotel.
SHERMAN.—Key Memorial Church is considering erection of
deifice on East Houston St.
VICTORIA.—Methodist Congregation has decided to erect de­
fice.
WACO.—Bids will be received until 2 ½ p. m., Nov. 22, for
erection of four-story reinforced concrete high school. J. C.
Lattimore, secretary of School Board.

UTAH
MURRAY.—Erection of library is being considered. Philip
Rents, Mayor.

VIRGINIA
AMHERST.—Farmers’ Educational and Co-operative Union
will erect storage warehouse.
CHERRYVALE.—Albert Hale will erect residence. Harding
& Upman, 729 Fifteenth St., N. W., Washington, D. C., Ar­
chitect.
NORFOLK.—National Exchange Bank will erect bank build­
ing at Campbell Ave. and Jefferson St.
ROANOKE.—H. M. Miller, Architect, So.-West Va. Trust
Bldg., is planning three fire houses for city; buildings to be
of brick, steam heat, all modern conveniences and slate roof,
and to cost $6,000 each; same architect is also planning $12,000
residence for S. B. Pace, hot-water heat, brick mantels and
modern plumbing, exterior to be of stone and stucco; also
$6,000 residence for R. S. Williams.

WASHINGTON
SPOKANE.—The Ballard Plammy, Kuhn Bldg., has prepared
plans for erection of building at Second Ave. and Stevens St.
for Imperial Trading Co., 907 First Ave.
SPOKANE.—William Hawkins will erect $8,000 residence at
Post St. and Twenty-second Ave.
Perry Prettyman is considering erection of residence at
Grand View. Site purchased.
L. L. Cather will erect $20,000 residence at Cliff Park.
PUNGO.—C. W. Roche and Geo. A. Heidinger are con­
dering erection of four-story building at Washington St.
and Second Ave.
New England Club of Spokane is considering erection of
club house. About $30,000 will be spent on building and
grounds.
F. W. Sulz will erect $100,000 brick block at Third Ave.
and Walnut St.
Mrs. Mary Nolan will erect $75,000 apartment house at
Fourth Ave. and Monroe St.
Patent Holding Co. is planning to erect $20,000 brick addi­
tion to plant at 118 Second Ave.

WISCONSIN
ANTIOCH.—County Board will consider erection of jail.
EVANSVILLE.—Erection of depot is being considered by North­
western Railroad. G. B. Vilis, Division Superintendent.
MADISON.—Architect A. C. Clas, 419 Broadway, Milwaukee,
will prepare plans for improving Park Hotel.
MARINETTE.—Brunswick-Balke-Collender Co., Chicago, is
considering erection of factory in this city.
MILWAUKEE.—Plans for residence for William Lale on Sum­
mis Ave. are being drawn by Architects Fernekes & Cramer,
Pabst Bldg.
Architect C. J. Keller. Germania Bldg., has completed set
of plans for $7,500 frame flat building to be erected for A. P.
Bour on Farwell Ave.
Architect H. J. Rotier, Goldsmith Bldg., is drawing plans
for brick and stucco residence for B. O. Stearns, to be erected
on Mineral Road.
MILWAUKEE.—Independence Lodge, F. and A. M., is con­
sidering proposition to build temple. Committee consisting of
C. A. Gunn, L. J. Keerble and S. E. Tate is investigating.
OAKSHOBE.—State Board of Control has rejected as too high
all bids for construction of the new building at hospital for
criminal and violently insane. State provided $100,000.
SUPERIOR.—Attorney Victor Lindley will erect building at
Thirteenth St. and Ogden Ave.
SUPERIOR.—Architect Carl Wirth is considering erection of
residence on Broadway.
Architect Howard Thomas is preparing plans for erection of
two-story office and store building at 1111 Tower Ave.
St. James Episcopal Church is considering erection of rectory
on East State St.
MADE WATERTIGHT WITH

HYDREX

THE WATERPROOFING FELT
Cemented together with (hot) Hydrex Compound
For
"THE MEMBRANE METHOD"

HYDREX FELT AND ENGINEERING COMPANY
Manufacturers and Specialists in Waterproofing Materials
120 LIBERTY STREET, NEW YORK
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"When in Water Remember Hydrex"

600,000 Gallon Reservoir at Con Ed Power Plant, N.Y., W.H. & H.H.R.
Weddlehouse, Church, Kerr & Co., Engineers.

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United States Government

BUCKEYE
Hot Water Valves

Made of the highest grade Steam Metal by the best skilled labor.
Catalogue on application.

Buckeye Iron & Brass Works
Incorporated 1876

DAYTON, OHIO

J-M Linolite System of Lighting
Is Fast Displacing Bulb Lights For Illuminating Show Windows, Show Cases, etc.

J-M Linolite is a vast improvement over bulb lamps for lighting show windows, show cases, bookcases, outdoor signs, pictures, etc.

J-M Linolite Lamps have straight-line filaments nearly a foot long, in tubes instead of bulbs. Joined end to end, these lamps give a continuous stream or line of light. And a powerful reflector, which can be turned to reflect at any angle, throws the light in any desired direction—concentrates it all on the goods in the window.

Bulb lamps, you know, form mere spots of light. Their radiation scatters in all directions. And the bulbs stand out as the brightest spots in the window—attract the eye to themselves—away from the goods on display.

J-M Linolite fixtures can be almost entirely concealed. They occupy only one-tenth the space of bulb lamps. They can be hidden back of the framework around the window, or behind the vertical fillets—wherever nearest the goods. The light is all thrown on the goods—none of it out in the street or in the eyes of spectators.

Write nearest branch for our Booklet telling all about the J-M Linolite System of Lighting.

H. W. JOHNS-MANVILLE CO.
Manufacurers of Asbestos and Magnesia Products

Asbestos Roofings, Packings, Electrical Supplies, Etc.

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Buffalo
Chicago
Cleveland
Dallas
Detroit
Kansas City
London
Los Angeles
Minneapolis
New York
New Orleans
Philadelphia
Pittsburg
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Seattle
St. Louis

Brampton, Ont.
Montreal, Que.
Winnipeg, Man.
Vancouver, B. C. (1155)
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The rates for advertising under this heading are 15 cents a line, with a minimum of five lines. About 2 words make a line. Remittances should accompany copy. Copy received until 12 m. Monday.

ARCHITECTURAL and Ornamental Iron Draughtsmen needed constantly; salaries $15 to $50 per week. The Engineering Agency, Inc., Monadnock Block, Chicago.

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VISIT THE
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<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slab</td>
<td>20 in. X 27 in.</td>
<td>$29.50</td>
</tr>
<tr>
<td>Height of back</td>
<td>10 in.</td>
<td>$29.50</td>
</tr>
<tr>
<td>Depth of apron</td>
<td>3 in.</td>
<td>$25.00</td>
</tr>
<tr>
<td>Lavatory bowl</td>
<td>12 in. X 14 in.</td>
<td>$28.50</td>
</tr>
<tr>
<td>Dental bowl</td>
<td>7 in.</td>
<td>$17.50</td>
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