

B224m

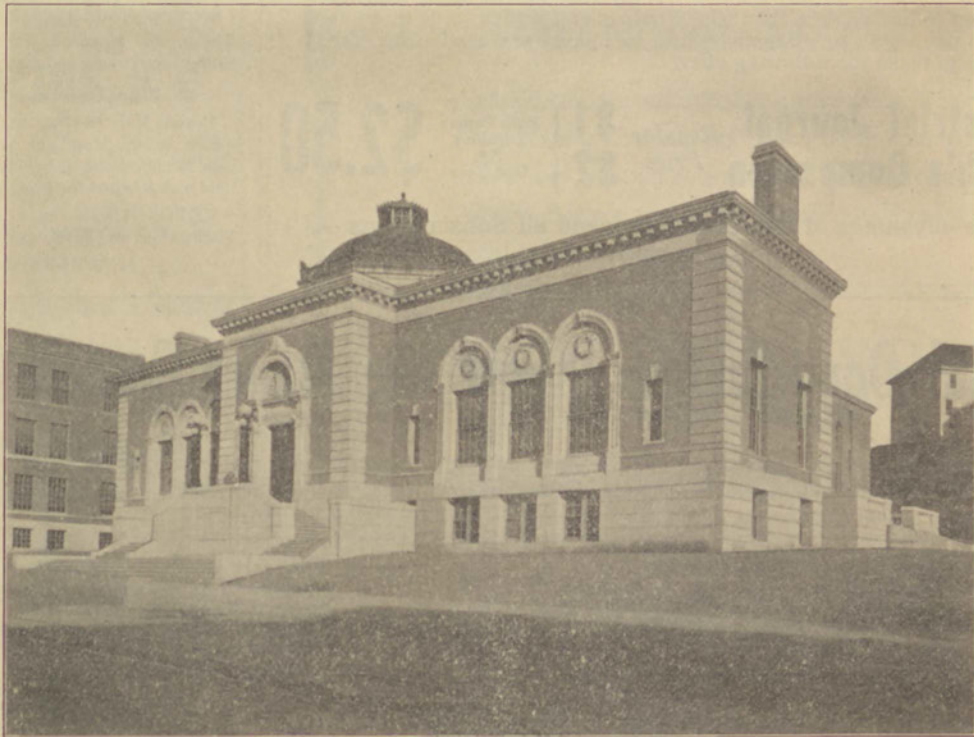
THE INDUSTRIAL JOURNAL

MANUFACTURES COMMERCE BUILDING RESORTS
ANNUAL DEVELOPMENT

No. 1265

BANGOR, MAINE, DECEMBER, 1913

Price 10 Cents



Bangor's New Public Library

Do you know The Youth's Companion as it is to-day?

Improved and broadened in its scope. Enlarged by the addition of a Special Family Page, Boys' Page, Girls' Page and Children's Page.



FREE TO JAN. 1914

Cut this out and send it with \$2.00 for The Companion for 1914, and we will send FREE all the issues for the remaining weeks of 1913 and The Youth's Companion Practical Home Calendar for 1914.
THE YOUTH'S COMPANION, BOSTON, MASS.

dren's Page. Great serial stories, 250 short stories. A remarkable Editorial Page. Current Events and Science. A wealth of variety and quality, and all of it *the best*.

Illustrated Announcement for 1914 free on request.

Remember — 52 Times a Year, Not 12

Great Family Combination Offer

We do not know of any Family Weekly that we can more heartily recommend to our readers than The Youth's Companion. It gives us pleasure, therefore, to announce that we have arranged with the publishers to make the following offer.

The Industrial Journal The Youth's Companion	Regular	\$1	Both Papers Together For One Year	\$2.50
	Price	\$2		

To take advantage of this Club Rate send all Subscriptions to this Office.

CARL RUST PARKER Landscape Architect

910 Fidelity Bldg., Portland, Me.

Designer of Parks
Playgrounds, Private
Grounds, Gardens, and
Land Developments

Construction and Planting
Plans furnished and work supervised

Eastern Steamship Corporation

BANGOR LINE—FALL SCHEDULE

Winter Fares—Bangor and Boston, \$2.50

Turbine Steel Steamships BELFAST and CAMDEN

Leave Bangor 11.00 a. m., Winterport, 11.45 a. m., Bucksport, 12.30 p. m., Mondays, Wednesdays, Thursdays and Saturdays for Searsport, Belfast, Camden, Rockland and Boston.

RETURNING—Leave BOSTON, India Wharf, 5.00 p. m., Mondays, Tuesdays, Thursdays and Fridays for Bangor and intermediate landings.

Mount Desert and Blue Hill Lines

Leave Bar Harbor 10.00 a. m., Blue Hill, 9.00 a. m., for Rockland and intermediate landings, Mondays and Thursdays, connecting at Rockland with steamer for Boston.

RETURNING—Leave Rockland 6.00 a. m., Wednesdays and Saturdays.

H. T. SANBORN, Agent, Bangor.

Industrial Opportunities Along the Maine Central Railroad

Upon the elevated plateau of Northern Maine and New Hampshire are vast reservoirs of water—(Moosehead, the Rangeley Lakes, and the Connecticut Lakes) from which flow mighty river systems—falling 2,000 feet in a course of 200 miles to the sea.

UNLIMITED WATERPOWER
NUMEROUS MILL SITES
QUARRIES OF GRANITE AND SLATE
VARIED TIMBER TRACTS
EXCELLENT TRANSPORTATION SERVICE

DEEP WATER HARBORS
PROFITABLE SHORE FISHERIES
FERTILE FARMS
GOOD SCHOOLS
CONVENIENT MARKETS

Information and advice given to those who desire a business location or home.

FARMS, HOTELS, CAMP SITES—Inland or Along Shore

Communications addressed to any agent of the Maine Central Railroad, or to the undersigned, will receive prompt attention and investigation.

THE NEW ENGLAND LINES INDUSTRIAL BUREAU
under the supervision of the
NEW YORK, NEW HAVEN & HARTFORD RAILROAD
BOSTON & MAINE RAILROAD
MAINE CENTRAL RAILROAD
W. H. SEELEY, Manager, 519 South Station, Boston, Mass.



WANTED---Rotary Saw Mill

I am in want of a second-hand rotary saw mill. Quote price and particulars.

MAURICE B. DOW,
Jonesport, Me.

Residence, 57 No. Main St., Brewer.
Telephone 875-15

JOHN T. CARTER
Contractor and Builder
25 FRANKLIN STREET
Tel. 439-1 BANGOR, MAINE

Just Around The Corner

FROM THE

WHITE HOUSE

Hotel Richmond
WASHINGTON, D. C.

On direct car line to Union Station and all other parts of Washington.

Close to all leading theatres and the business district.

100 Rooms Newly Furnished 50 Baths

American Plan, \$3 per day and up.

Write for illustrated booklet with map.

CLIFFORD M. LEWIS, Prop.

J. H. HOUGHTON

NEW ENGLAND AGENT

OHIO LOCOMOTIVE CRANE CO.
LYONS ATLAS COMPANY

Steam and Electric Hoists Dredging Machinery, Etc.
Portable and Stationary Engines and Boilers
Coal Handling Machinery
Complete Stone Crushing Plants Cableways, Derricks, Etc.
Second-Hand Hoisting and Stationary Engines

182 HIGH STREET, BOSTON, MASS.

UNION IRON WORKS

BANGOR, MAINE

We manufacture and sell everything that goes into a mill to start it going and keep it running—from Boilers and Engines down to Wrenches and Cotter Pins.

UNION IRON WORKS

BANGOR, MAINE

A SUPERIOR ADVERTISING MEDIUM

THE
INDUSTRIAL
JOURNAL

SUBSCRIPTION PRICE \$1.00 PER YEAR IN ADVANCE.

BANGOR, MAINE

AN Illustrated Newspaper, giving each month a record of the progress in Manufactures, Building, Commerce, Shipbuilding, Railway and Steamship, Fish and Game, Hotel and Summer Resort, and Financial interests.

UNUSUAL OFFER TO OUR READERS

For a limited time, and subject to withdrawal after 30 days, the well-known publishing house of the J. B. Lippincott Company, Philadelphia, founded 1792; offers the readers of this paper a 15 months' subscription to "Lippincott's Magazine" and a year's subscription to THE INDUSTRIAL JOURNAL, both for \$3.00. This is the price of a twelve months' subscription to "Lippincott's" alone. Additional to obtaining every issue of this paper for a year, our readers will receive in "Lippincott's," 15 great complete novels by popular authors, 105 short stories, crisp, entertaining, original; 45 timely articles from the pens of masters, and each month some excellent poems with the right sentiment, and "Walnuts and Wine," the most popular humor section in America. To obtain this extraordinary offer prompt action is necessary. Remit to J. B. Lippincott Company, Washington Square, Phila., Pa.

SAND AND GRAVEL	Any size, any quantity; delivered anywhere. Car lots a specialty. Capacity 500 tons daily. Consolidated Broken Stone & Gravel Co. Portland, Maine
----------------------------------	--

IS SECOND-HAND BELT AS GOOD AS NEW? IT IS. WHY?

Because one of our largest belt manufacturers has bought the biggest lot of second hand belt that was ever offered for sale. We are very sorry to lose the opportunity to offer these goods to the manufacturing public, but will say that we are making every effort to gain possession of material that we can offer as second hand belt.

HINDS & COON

Mill Supplies and Belting

124-126 Pearl Street, Boston, Mass.

PATENTS.

JOHN R. MASON,

16 CENTRAL STREET,

BANGOR, MAINE.

Penobscot Bay & River Steamboat Co.

BUCKSPORT AND CAMDEN

LEAVE Bucksport 8.00 (on arrival morning train from Bangor), for Sandy Point, Fort Point, Belfast, Northport, Temple Heights, and CAMDEN, arriving about noon, connecting with trolley for ROCKLAND.

RETURNING, leave Camden 12.30 P. M., touching at above landings, for BUCKSPORT, connecting with 6.25 P. M. train for BANGOR.

CAPT. W. D. BENNETT, Mgr.

PLEASE MENTION, when writing advertisers, that you saw their announcement in THE INDUSTRIAL JOURNAL.

ARE YOU BUILDING?

We manufacture Long and Short Lumber, House Finish of all kinds, Doors, Sash, Blinds, Wood Mantels, etc.; deal in Builders' Hardware, Paints, Oils, Fireplace Furnishings and Tile; promise superior quality at right prices every time. What's YOUR order?

MORSE & CO., Agents for the Famous **Bangor, Me.**
Ruberoid Roofing

HACKETT & WITHAM

Successors to The Island Machine Co.

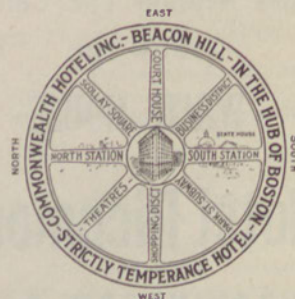
Machinists and Iron Founders

Manufacturers of Circular Saw Mills, Shingle Machines, Lath and Birch Machinery.
Dealers in Leather and Rubber Belting and Mill Supplies of all kinds.

Agency for the Buick Automobiles for Somerset County. **SKOWHEGAN, ME.**

COMMONWEALTH HOTEL, Inc.

Opp. State House, Boston.



Offers rooms with hot and cold water for \$1 per day and up, which includes free use of public shower baths. NOTHING TO EQUAL THIS IN NEW ENGLAND. Rooms with private bath for \$1.50 per day and up; suites of two rooms and bath for \$4 per day and up. Dining Room and Cafe first class. European plan

Absolutely Fireproof

Stone Floors, nothing wood but the doors. Equipped with its own Sanitary Vacuum Cleaning Plant. Long Distance Telephone in every room. Strictly a Temperance Hotel. Send for Booklet.

STORER F. CRAFTS, Gen'l Mgr.

BATH IRON WORKS LIMITED

Shipbuilders and Engineers

BATH, MAINE

BOILERS, SMOKE STACKS, TANKS, PENSTOCKS

Sheet Metal and Copper Work,

Heavy Pressed Steel Work, Flanging, Dishing, Etc.

Brass, Compo, Phosphor Bronze Castings,

Engine, Machine, Boiler and Digester Repairs.

MATERIAL IN STOCK FOR RAPID EXECUTION OF SUCH REPAIRS

TELEPHONE 12

THE INDUSTRIAL JOURNAL

Devoted to the Development of Maine and the Northeast

Industrial Notes

J. B. Grey & Son have opened to the public a large, new machine shop in Fort Fairfield. Among their specialties is automobile repairing in all its branches.

F. A. Buck Company, the Eastport machinists, have added to the equipment of their shop a machine for welding and brazing, the heat for which is furnished by acetylene.

Oakland's new broom handle factory has started up and is in successful operation. Logs are coming along freely, and it is expected that the plant can be run to its full capacity in the near future.

Ripley expects to have electricity for light and power in the near future. Plans have been made for a pole line from Dexter, and electricity would be supplied by the Central Maine Power Company.

Although the Maine Jobbing Company of Rockland has disposed of its bottling works to Stickney & Davis, the manufacture and jobbing of confectionery will still be done by the Maine Jobbing Company.

Fay & Scott, manufacturers of machine tools, Dexter, made Dec. 4th a shipment to the Pearl Harbor Navy Yard, Hawaiian Islands, with a little over fifteen tons of machine tools for the new government plant being erected there.

The Reed Mills Lumber Company has been organized at Phillips for the purpose of owning and leasing timberlands with a capital stock of \$50,000. Arthur W. McLeary of Phillips is president and Harry W. Bell of Phillips, treasurer.

The Coniferane Pulp Co., has been organized at Biddeford, for the purpose of manufacturing by a secret process wood pulp from coniferous woods, with \$500,000 capital stock, of which nothing is paid in. Officers: President, John A. Snow of Searloro; treasurer, Frank B. Ross of Biddeford.

Willis M. Chenery, president of the Chenery Manufacturing Company, passed away recently at his home in Portland. About a third of a century ago Mr. Chenery established the business of the Chenery Manufacturing Company on Middle street, and it has long been prominent among Portland's successful manufacturing establishments.

H. F. Andrews & Co., of Bangor, have well towards completion a new mill at Ludlow, distant about three and one-half miles from the Bangor & Aroostook Railroad. The equipment includes a rotary, lath machine, shingle machine, matcher and jointer. The mill is to be operated during the winter months and is expected to have a daily capacity of 25,000 feet of long lumber.

M. A. Eames has just completed a good, substantial piece of work at North Anson for the Newcastle Lumber Co., in building a bulk head between the double mill and the Clark mill, so called,

300 feet long and ten feet high and ten wide. He has also put in another one at the lower mill, which the company recently purchased, which is 80 feet long and is now new planking a portion of the dam at the lower mill.

Lewiston mills on the upper canal and more especially the Androscoggin mill, which is at the extreme lower end, have solved the problem of the disposition of anchor ice and floating ice. The Union Water Power company for the benefit of these corporations is constructing a sluiceway of reinforced concrete from the gates of the Androscoggin mill to the river below, emptying into the outlet of the gates of the Lewiston Bleachery and Dye Works.

Prominent among Bangor's industries is that of the manufacture of confectionery. Thurston & Kingsbury, the enterprising wholesale grocers on Broad street, are extensive manufacturers of confectionery and employ from twenty-five to thirty hands in this department. Their output enjoys a high reputation and is in wide demand all over eastern Maine. Messrs. Thurston & Kingsbury also are extensive manufacturers of flavoring extracts.

Skowhegan learns with much satisfaction that the worsted mill recently purchased by the American Woolen Company will be opened for business in January. It has not yet been decided what the mill will turn out but it is understood that though it starts with worsted goods it will eventually become a part of the woolen mill and will turn out the same product. The company has already begun to engage its help for the opening of the worsted mill. This mill has 92 looms and can employ about 300 hands.

The St. Croix Paper Company's mill in Woodland was the scene of an accident on December 16th. A fly wheel broke and shot upward, plowing its way through a concrete floor a foot thick and going through the roof. This is the second disaster at the mill in a week, a fire having broken out in the locker room and doing \$1,000 damage only a few days before. The fly wheel, which weighed about twelve tons, was new and had only recently been installed. Both of the paper machines were put out of commission by the accident and the crew of several hundred hands is out of work until repairs can be made.

Skowhegan has a new industry in the manufacture of paper from the waste of woolen mills, old papers, old rags and many other kinds of waste materials. This business is now being carried on by the Savage Manufacturing Co., and 26 hands are at present employed in the work. The mill was started by E. L. Savage as a ground pulp mill but the present product makes the mill unique in Maine. He is at present making 14 grades of paper and contemplates the making of more. The present pay roll amounts to over \$200 weekly and, with contemplated machinery, he would employ 100 hands. The paper that he now makes is used largely in the manufacture of pasteboard boxes.

Kingfield seems to be enlarging its manufacturing establishments to take care of a healthy increase in the business of the town. A new sawing room 22 x 40 with metal-covered walls and roof has been added to the Huse bull spool mill. The dry house has been moved to a stone foundation with a cement floor,

heated by the exhaust from the engine, as is the main mill also. To the main mill there has been added an elevator tower to connect the two stories. Another season they expect to build an addition to the main mill and a number of stock sheds. The sawing room at the Jenkins & Bogert birch mill has been built over and enlarged extending nearly to the railroad track and all the machinery put in excellent shape for handling their large business.

Asst. State Horticulturist H. P. Sweetser has been gathering information regarding tobacco, which is being grown by M. B. Smith of Belfast. Mr. Smith has a great proposition according to the reports of the assistant horticulturist. During the year he has raised 15 acres of Havana, Broadleaf and Cuban cut. He handles the tobacco from the seed to the consumer, and is, at present, running a small factory in connection, for the manufacture of cigars. The workers in the factory are unskilled in the trade, however, and their output is slow, so that Mr. Smith cannot begin to fill the orders which he receives. Mr. Smith finds that he can produce as good a quality of tobacco in Maine as can be produced in Connecticut, only he must use the Connecticut method of growing it.

The Sterns Lumber Company have during the last season manufactured at their mill in East Hampden between twelve and thirteen million feet of lumber. The Sterns Lumber Company have one of the most modern and best equipped lumber manufacturing plants on the Penobscot. In the early summer the business was incorporated, Charles L. Swan of Stoughton, Mass., being president; Harris O. Poor of Boston, Treasurer and John A. Smith of Bangor, manager. The office of the company continues in the Sterns building at Bangor, and Manager Smith is intimately familiar with the business. Among the improvements inaugurated at the East Hampden mill during the season just passed has been the building of a mile of railway 42-inch gauge for moving the waste lumber.

The Bangor Mattress Company has on Second street a busy industrial establishment. A full crew is kept employed and among the specialties manufactured are mattresses, couches, pillows, etc. The output is of high standard and is in steadily increasing demand. The beds manufactured are distributed all over Maine and to some extent outside of the state. In the vicinity of one hundred thousand feet of lumber are consumed annually at this establishment. The business was established in Bangor about fifteen years ago, and within a few years has been incorporated, N. G. Sawyer being president and Sewall Q. Rollins treasurer. President Sawyer, accompanied by his wife, has recently gone on a trip to Arizona where they will pass the winter and the business is under the active management of treasurer Rollins, who is one of Bangor's enterprising and thoroughly progressive young business men, and is a son of the late D. G. Rollins, the original founder of the business. The Bangor Mattress Company has the agency for Maine of glass sliding shoes which save the floors and carpets and are in especial demand in hotels. The Bangor House in this city and Thorndike Hotel in Rockland have been equipped throughout with these shoes and a trial order has recently been supplied the Congress Square Hotel in Portland.

Berry & Smith, sailmakers and manufacturers of canvas goods of various kinds, are once more at the location on the corner of Broad and Independent streets, from which they were driven by the conflagration of April 30, 1911. Since the fire they have occupied temporary quarters near the foot of Exchange street, but the Cassidy Block in which they were formerly located has been thoroughly remodeled and it is a great improvement over the historic building which it replaces. On the ground floor and fronting on Haymarket Square there will be an office and store where various canvas goods manufactured by them will be for sale. The second story of the building will be devoted to Berry & Smith's extensive manufacturing business and this spacious

room will be 50 by 70 feet in size and with no posts, the building having a truss roof. In fact, this will be one of the largest and best equipped sail lofts in New England. In addition to sails and awnings, Berry & Smith manufacture flags, gloves, feed bags, clothes bags, knapsacks, horse covers and wagon covers and shirts. In the past shirts have been made only on orders, but in the future they will be made up and kept at all times in stock for sale. A recent order has been the making of three hundred canoe sails for Morris, the Veazie canoe builder. In the vicinity of ten hands are given steady employment and this is one of Bangor's important industries.

INDUSTRIAL EXPANSION.

Auburn to Have One of the Largest and Most Modern Shoe Manufacturing Plants in the World.

The Lunn & Sweet Shoe Company, shoe manufacturers, Auburn, have given out the following announcement of the additions which they will build to their factory in 1914. When completed, they state, this will be the largest and most complete modern shoe making plant in the world. It will give them a daily capacity of 10,000 pairs of shoes.

There will be three buildings of four stories in height and one of one story. The first building will be 50 by 100 feet in size and will extend from the present factory along Minot avenue to the Cushman-Hollis warehouse. Then will come an administration building, so called, which will be 60 by 138 feet, extending back from the present building to Washington avenue. A one-story warehouse, 50 by 166, will connect these two ell's. In these new buildings the same construction of brick and steel will be used, as in the present factory.

When completed the firm will have six acres of floor space in their Auburn factory. If these buildings were to be extended in a straight line they would give a building 50 by 720 feet and four stories high. With the completion of these additions the firm will have, when running at the full capacity a plant fitted to turn out 10,000 pairs of shoes every working day. The business will be organized into two departments. One of these will be for the production of high grade welt and turned shoes, the other for a medium grade of turned shoes.

Work upon the additions will start as soon as the frost is out of the ground in the spring of 1914 and it is expected that they will be ready for occupancy by Aug. 1.

At this time the orders which the firm of Lunn & Sweet have insure their running at the present full capacity, 4,500 pairs of shoes per day, until next August.

DISASTROUS FIRE AT BINGHAM

The American Shoefinding Company's Big Plant Destroyed—The Company to Rebuild in the Spring.

On the night of Dec. 1st, Bingham was visited by a disastrous fire, destroying the entire plant of the American Shoe Finding Co., The loss, which was estimated at \$100,000, was principally on the machinery which was valued at more than \$75,000. The company is fully protected by insurance.

The plant was one of the largest industries in Bingham and employed 65 people. Shoe shanks, shoe pegs and bobbins were manufactured in large quantities, the mill being the only one of its kind in the country, except one at Whitman, Mass. The buildings, of which there were three, were of frame construction. They were a power house, a two-story structure used as a mill and a one-story storage building.

The fire was fought for more than four hours by the local firemen. They succeeded in saving 700,000 feet of white birch belonging to the company and the camps of the Kennebec Log Driving Co., which are close by. The mill was located an eighth of a mile from the village.

The American Shoe Finding Co. is planning to rebuild and expects to have the new plant ready in the spring.

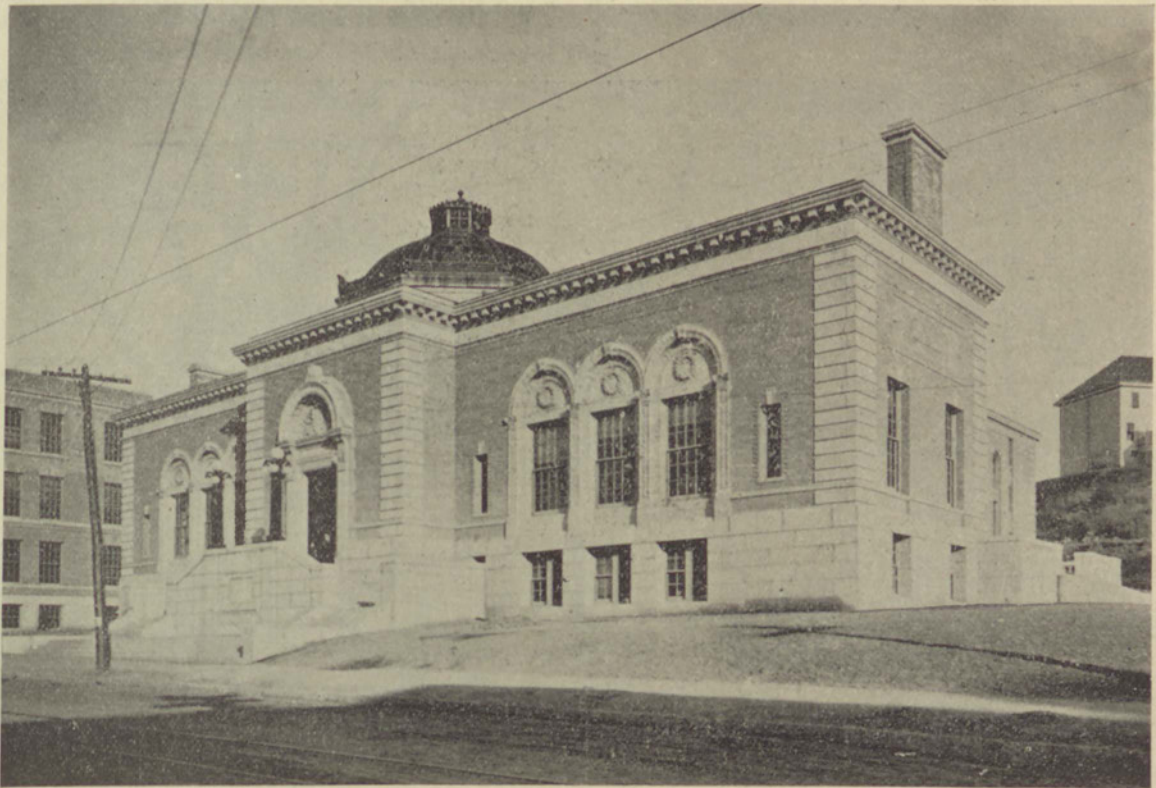
BANGOR'S NEW PUBLIC BUILDINGS.

The Year's Building Record Notable because of the Completion of the Magnificent Public Library and the Splendid High School—Superb Edifices unsurpassed in Maine and Reflecting Credit on Enterprising Bangor.



THE building record in Bangor for 1913 is particularly notable because of the completion of the magnificent Public Library and the splendid High School, these two superb edifices representing an investment considerably in excess of a half million dollars, while in beauty of design, splendor of execution and richness of furnish-

rooms last named and opening into the passage behind the delivery desk is the office of the librarian, Charles A. Flagg, and the cataloging room, the latter to be the office of Mrs. Mary H. Curran, the assistant librarian. Directly in the rear of the delivery desk is the separate fireproof stack building which is arranged for four floors of steel shelving but at present only the



BANGOR PUBLIC LIBRARY.

ings they are worthy of a city much larger than Bangor and their equal cannot be found in Maine today.

PUBLIC LIBRARY.

Bangor's new Public Library is completed and during December has been opened to the public and all the visitors are more than delighted with its beauty and elegance. Built from plans by Peabody & Stearns, Boston architects, and harmonizing with the high school near by, designed by the same architectural firm, the new edifice is a credit to Bangor. It is a handsome, dignified structure, having two stories and a basement. It has a frontage of 134 feet on Harlow street and an extreme depth from the street entrance to the rear of stack room of 103 feet. The material is light tapestry brick, granite and marble. There is a large display of ornamental stone-carving on the front of the edifice.

On entering one faces the delivery space with the children's reading room on the right and the main reading room on the left. Back of the main reading room is the reference room, these two rooms flanking the delivery hall. In the rear of the two

main floor and half of the basement are shelved, furnishing book capacity of about 100,000 volumes. The capacity can be increased by additional shelving to 300,000 volumes. The stack used is the Snead, similar to that installed in the Library of Congress, the New York public library and many other important libraries.

Ascending by marble steps from the main library floor one reaches the second floor, which is very attractive in all its appointments. The upper hallway is surmounted by a dome of glass and steel, with a massive chandelier in the center. Encircling the base of the dome are a dozen tablets elaborately decorated and bearing the names of New England authors, as follows: Longfellow, Hawthorne, Lowell, Prescott, Holmes, Parkman, Bryant, Fiske, Emerson, Aldrich, Whittier, and Palfrey. To the right is a spacious and attractive room devoted to history and fire arts, and here will be displayed the treasures of the Bangor Historical Society; and to the right is a gem of a lecture hall. In the spacious basement there are the Board of Managers' room, coat and lunch rooms for employees, packing and shipping rooms,

public toilette rooms, study rooms, storage rooms, a disinfecting room, etc.,

The general contractors of the Public Library were George H. Wilbur & Son and the building reflects great credit upon them. The foundation was by Mullen Brothers and Cyr Brothers. Huey Brothers of Boston were the heating contractors and the plumbing was by C. H. Babb & Company of Bangor. The electric wiring was by the Dole Company of Bangor and electric fixtures by Pettingill-Andrews Company of Boston. The stacks were by the Snead & Company Iron Works of Jersey City, N. J. The vault doors were by the Mosler Safe Company of Hamilton, Ohio. F. S. Payne Company of Boston supplied the elevator. The Library Bureau of Boston provided the furniture. The Yale & Towne Company, through Morse & Company, of this city, supplied the hardware. The painting was by the Fred H. Eldridge Company, and the carving of stonework and all the models were by John Evans & Company of Boston. S. H. Rathburn was the representative of Peabody & Stearns, the architects, and the total outlay has been about \$160,000.

Boston architects, designed the High School as well as the Public Library and the two buildings thoroughly harmonize. Geo. H. Wilbur & Son were the contractors and right nobly did they acquit themselves. As indicative of the magnitude of the building operations of the Messrs Wilbur they used in the construction of the Public Library and High School 2,200,000 colored brick and 1200 tons of steel.

The edifice is 160 x 200 ft., and three stories, together with a basement. An attractive feature of the first floor is the splendid assembly hall with accommodations for one thousand. The elaborate plumbing system was installed by C. H. Babb & Co. The heating plant was supplied by Willey & Calhoun of Portland, the vacuum system being employed. The painting was by the Fred H. Eldridge Co. The building is equipped with 42 electric clocks, 52 telephones, about a thousand lights and nearly a dozen fire alarms. The general furniture was largely by the Hodgkins & Fiske Company. The manual training department has an elaborate equipment.

The building is so nearly fireproof that there is practically no



BANGOR HIGH SCHOOL.

At the time of the conflagration the Public Library lost 70,000 volumes but already there are now in excess of 20,000 books, and with this as a nucleus together with the assurance that the quarters are practically fireproof Librarian Flagg will soon gather a library of large proportions.

HIGH SCHOOL.

Bangor's new High School fills a long felt want and is an institution in which every citizen should take a just pride. The new edifice was open for students with the resumption of the fall term and the date of formal dedication was Oct. 22nd, 1913. It is easily the largest and finest in Maine, and will compare favorably with any educational building in New England. The total cost is \$375,000 and it is thoroughly modern and up-to-date in every particular. Principal Geo. H. Larrabee is to be congratulated on presiding over such a splendid building.

The High School is situated on Harlow street, adjoining the Public Library, and the edifice is an attractive structure of light tapestry brick, granite and cast stone. Peabody & Stearns,

danger to the pupils from fire. The corridors and stairways are of fireproof construction throughout. All partitions are of fireproof materials. In every room between the rough floor and the finish floor there is a layer of sound-deadening and fireproof material. All plastering is on metal lath. Stand pipes with ample fire hose are located at convenient points on all floors. There are three fire alarm boxes on each floor.

The stairways are all well lighted and of easy descent. The corridors are so wide as to avoid all danger from crowding. The outer doors and the auditorium exit doors are provided with anti-panic bolts so constructed that when locked a push from the inside instantly unlocks and opens them. All doors open outward. The building is well lighted.

The colors of ceilings, walls and window shades are in accordance with recommendations of a commission of experts recently appointed by the city of Boston and are chosen with a view to minimizing eye strain. Signals for study and recitation periods are rung by electricity in all rooms by clocks that operate auto-

To Manufacturers and All Power Users:

THE State of Maine ranks third in the Union in the amount of Horse Power electrically developed from water power, and power so manufactured is produced at its lowest cost.

Ninety-five per cent. of all the improvements in the operating end of manufacturing business during recent years has had to do with Electrical Invention and Application, and to Manufacturers, whose profits are directly proportional to the cost of their power, Maine offers exceptional opportunities.

The Bangor Railway & Electric Company has three hydro-electric stations generating electricity from water power, with a total of 18,000 Horse Power available, which may be purchased at extremely low rates.

The service of the Company is available in Bangor, Brewer, Old Town, Orono, Ellsworth and Bar Harbor and the surrounding territory.

Bangor and Brewer with a population of 25,000, and 6,000 respectively are in almost the exact geographical center of the state, located at the head of tide water on the Penobscot River with excellent water and railroad transportation facilities.

In all of the towns served by this Company the advantages that are directly at hand for the manufacturer besides cheap and abundant electric power service include low rents, availability of labor of a high grade of intelligence and stability, unlimited raw material in all industries depending on forest products and up to date communities offering excellent civic advantages.

We have many desirable factory sites which may be obtained without cost to users of our power, and we aim to furnish a service that is constant and reliable.

Established industries using other forms of power at excessive cost here have an opportunity to improve their conditions. Industries desiring to locate where cheap electric power is available in any quantity can here secure it.

We will be glad to furnish information in detail to those interested.

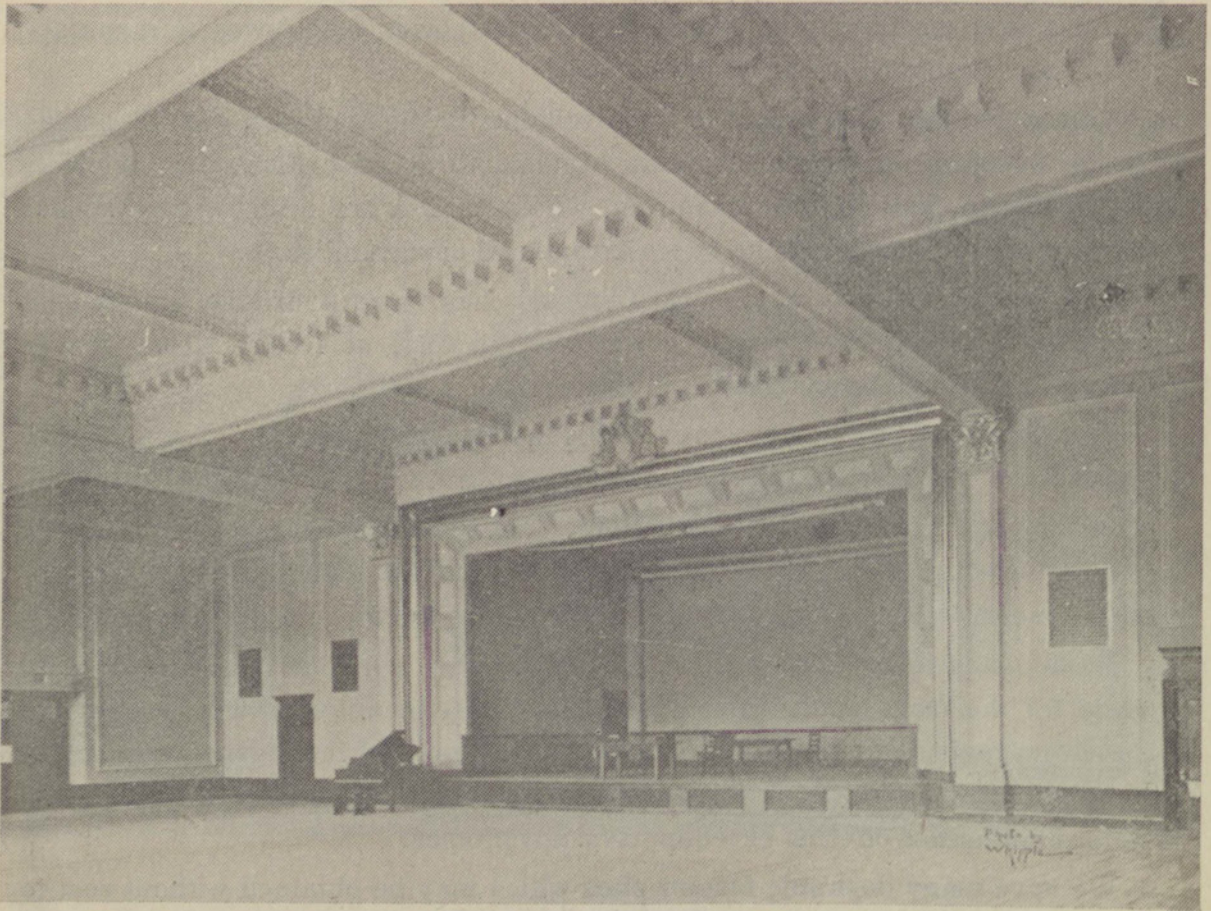
BANGOR RAILWAY & ELECTRIC COMPANY
BANGOR, MAINE

matically. A complete system of telephones connects all rooms with the principal's office.

Heating and ventilating are done by a combination of the direct and the indirect methods. Fresh air is drawn from outside, first strained through cheese cloth to remove any dust, then heated by passing over steam radiators, then forced by a rapidly revolving fan through ducts to each room. Ample ducts take the stale air from the rooms out through ventilators on the roof. Additional heat is furnished by direct radiators fastened to the wall and controlled by an automatic device. Each pupil is provided with a sanitary steel locker.

There are: 17 class rooms, 6 small recitation rooms, Book-keeping and banking room, Stenography room, Typewriting room, Science lecture room equipped with stereopticon, Biology laboratory, Physiography laboratory, Chemical laboratory, Physics laboratory, Drawing room for Mechanical drawing,

intendent of construction is to be N. V. Perry of Atlanta, Ga., who has already come to Bangor and established himself in offices in the Graham building. The new building will have a frontage on Harlow street of 160 feet and a depth of 96 feet. There will be three stories and a basement. With granite used in its construction, as is anticipated, the cost of the building, together with its furnishings, will be approximately \$300,000. It will have the most complete heating, ventilating and air-washing system of any federal building in Maine. The postoffice department will be on the first floor. The second floor will be devoted to the customs department and offices of the pension examiner, internal revenue officials, steamboat inspectors and postoffice inspectors. On the third floor will be the United States district court room, the judge's private room and chambers and rooms of the district attorney, jury, witnesses, etc. In the erection of the building all modern construction methods and



ASSEMBLY HALL, BANGOR HIGH SCHOOL.

Drawing room for freehand drawing, 2 Dark rooms for photography, 1 Wood working room, 1 Metal working room, 1 Cooking room with pantry and dining room connected, Sewing room, room for the grammar school Manual Training work, 12 store-rooms, 2 Teachers' offices, 2 Teachers' reception rooms, Medical room, Library, Lunch room, Locker rooms, 2 Toilet rooms, Gymnasium with two dressing rooms adjoining, Assembly Hall with two ante rooms adjoining stage, Offices for the principal and Offices for the Superintendent of Schools.

FEDERAL BUILDING.

The excavation for the proposed federal building at Center Park has been completed during the season and the contract awarded to William H. Maxwell of Tacoma, Wash., who has erected numerous government buildings in different parts of the country. The plans for the new buildings were made by Oscar Wenderoth, Supervising architect, Washington, and the super-

ideas will be used. The roof will be flat and of concrete with parapet walls around. A granite retaining wall is expected to be built around the north and east sides of the building. It will be on an average of ten feet from the postoffice and the highest point will be about 20 feet in height. Contractor Maxwell is perfecting all the necessary arrangements and with the first advent of spring will get under way and push work vigorously. The new building is expected to be completed by April 1, 1915.

BANGOR STATE HOSPITAL.

The Bangor State Hospital is having erected an addition to be utilized as a supply store and refrigerator plant. The new building is 60 by 70 feet and one story. The outside walls are of stone, the interior walls of brick, and the floor is of reinforced concrete. Wilfred E. Mansur of Bangor is the architect and A. C. Stanley of Bangor the contractor. Work on the new building is well advanced and will be completed early in the new year.

BANGOR'S NEW BANK BUILDINGS.

In the conflagration that devastated Bangor in the spring of 1911, the financial institutions generally were not visited by the flames, but the Bangor Savings Bank lost the home it had occupied for a considerable period of years and one private banking establishment was burned out. The Bangor Savings Bank has reared on the site of the building formerly occupied one of the

interior is finished in hollow metal, steel and marble. The doors and roof are of copper and the building is absolutely fireproof. Carrere & Hastings, the New York architects who designed Portland's city hall, were the architects, and Norcross Brothers of Worcester, Mass., the contractors. Internally, as well as externally the building is a gem and a most welcome addition to



THE NEW HOME OF THE BANGOR SAVINGS BANK.

handsomest bank buildings in New England, and directly across the street the Eastern Trust & Banking Company has erected a splendid edifice, a considerable portion of the ground floor being devoted to their banking establishment, the bank moving from the former location on Hammond street opposite City Hall in October.

BANGOR SAVINGS BANK.

In June the Bangor Savings Bank moved into their new home and it is splendidly adapted to their large and expanding business. The building is built of white granite from the Hallowell granite Works with partitions of terra-cotta and concrete floor. The

architectural adornment of the new Bangor. The new vault with which the bank is equipped was supplied by the Remington & Sherman Company and its inside measurements are: height 8 feet; width 16 feet; depth 8½ feet. The thickness of the steel vault is 3 inches, the inner door 5 inches and the outer door 15 inches. The steel vault has a weight of 50 tons, the outer door, 15 tons, the inner door, 5 tons, the vestibule, 7 tons and the combined weight of vault, vestibule and doors totals 127 tons. The Bangor Savings Bank offers private lock boxes \$4.00 to \$20.00 per year; large vaults for the storage of trunks, bags, pictures and other valuables; and special rates on silverware and

bulky valuables. A bronze tablet has been received at the Bangor Savings Bank, and will be placed on one of the wall panels in the banking room. It gives the date of the organization of the bank, 1852; the date of the erection of the new building, 1912; the name of the architects, Carrere & Hastings of New York; the builders, Norcross Bros. Co., and the trustees at the time the building was built, F. H. Appleton, president; Matthew Laughlin, E. C. Ryder, C. H. Bartlett, and W. L. Head.

EASTERN TRUST & BANKING COMPANY'S BUILDING.

The large and splendid building of the Eastern Trust & Banking Company has been completed during the present year. The building was designed by C. Parker Crowell, the architect,

bronze. The floor of the public space is of mosaic tile with marble base and the walls and ceilings are ornamental hard plaster work. The public corridor to the office portion has also marble wainscot and ornamental plaster walls and ceiling and floor of marble mosaic tile. The fireproof stair and elevator shaft is finished with plaster walls and ceilings, terrazzo stair treads, there being no wood used in the interior of this shaft except the hand-rails on the stairs. The floors of the banking rooms and public corridor are also fireproof, being of reenforced concrete. The Eastern Trust & Banking Company moved into their new and handsome home about October 1, and with their beautiful and spacious banking rooms, new safe deposit vaults and other equipment, they are ready to attend to the banking wants of the



THE EASTERN TRUST & BANKING COMPANY'S NEW BUILDING.

and the W. N. Sawyer Contracting Company, were the original contractors and they continued until the block was about two-thirds completed. The balance of the work on the superstructure was done by F. A. Rumery Company, Portland, contractors. The building has a frontage on State street of 65 feet, 9 inches and on the Kenduskeag of 113 feet. The building is six stories high and there is in all a total floor area above the basement of 54,000 square feet. The ground floor is occupied by the Eastern Trust & Banking Company, and the Lyford & Woodward Company, while between the bank and the store is a public corridor of attractive design and opening into a fireproof shaft which contains the stairs and elevator to the office floors. The contract for finishing the banking quarters was by Frank S. Morse and the grill work by the Oliver Whytt Company of Boston. The banking rooms are finished in mahogany and with grill of

people. The Eastern Trust & Banking Company has branches at Machias, Dexter, and Old Town, and in the latter city a new and handsome bank building is being erected. The Lyford & Woodward Company have in their new fur store one of the largest and best equipped establishments of its kind in New England. There are in all about seventy offices in the new building and these are finished in oak stained dark gray tone with hardwood floors. The Great Northern Paper Company occupies the entire upper floor. The building is provided with the latest type of Otis electric elevator and modern vacuum heating system throughout.

Nathaniel V. Perry of Atlanta, Ga., is to be superintendent of construction for the Bangor postoffice and succeeds Sid H. Nealey of Washington, who has been in charge of the work temporarily since the resignation of A. W. Griffin.

CHARLES MURRAY, President and Treasurer

JOSEPH MURRAY, Secretary

LOUIS MURRAY, Manager

Murray Brothers Company

General

Contractors

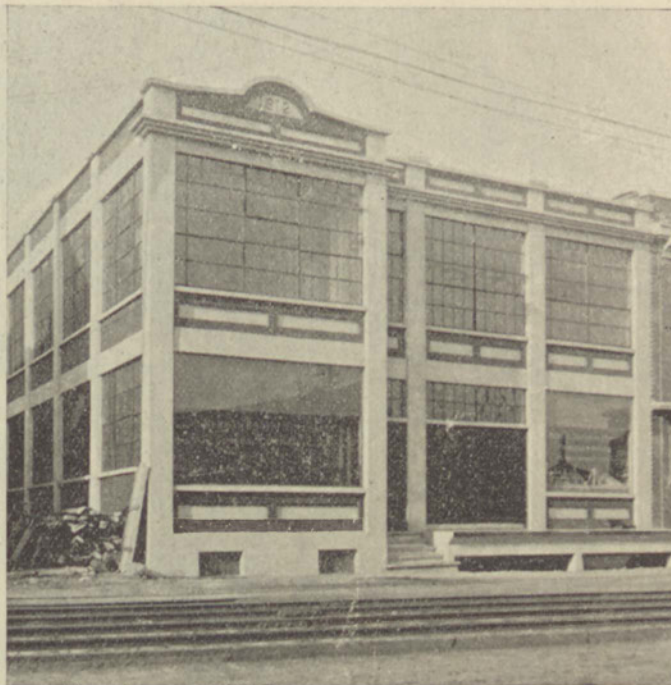
Office 'Phone 339-1

Residence 'Phone 339-2

17-21 Front Street

BANGOR

MAINE



Wholesale

Grocers

Importers and
Exporters of

Italian and American Products

BRANCH STORES

Perry, Me.

Brownville Jct., Me.

Woodstock, N. B.

TO BUILD RIGHT

Send us your orders (large or small) for

LONG AND SHORT LUMBER,
CLAPBOARDS, SHINGLES,
BUILDING TRIM,
STAIR MATERIAL,
DOORS, SASH, BLINDS,
WOOD MANTELS,
STORE FITTINGS,
BUILDERS' HARDWARE,
PAINT, LEAD, OILS,
VARNISHES, TILE, ETC.

We carry a large stock at all times and can fill orders promptly.

You are naturally anxious to have best of materials, at proper cost. Our position as manufacturers and quantity buyers enables us to give our patrons every advantage of superior goods at right prices. We are always glad to give detailed information concerning our various lines; urge you to call, or write us freely.

MORSE & CO., Valley Ave., Bangor

If You Bank Here Through 1914

you will realize why so many thousands of our other patrons prefer this bank as a safe, and convenient depository for their money. Why not start the new year right, by opening an account here?

We pay interest on deposits subject to check.

EASTERN TRUST & BANKING CO.

EASTERN TRUST BUILDING

2 STATE STREET,

BANGOR, MAINE

BANGOR'S NEW HOUSES OF WORSHIP.

Seven of Bangor's houses of worship were swept away in the fierce fire two years and eight months ago, but in the intervening

on Park street and the Jewish temple on York street were all completed and occupied during 1912 but the formal dedication



AUDITORIUM OF ALL SOULS CHURCH.

period new and spacious edifices have been reared and the various societies are now generally established in houses far more attractive and commodious than the ones they replace.

The Advent church on Center street, the Universalist church

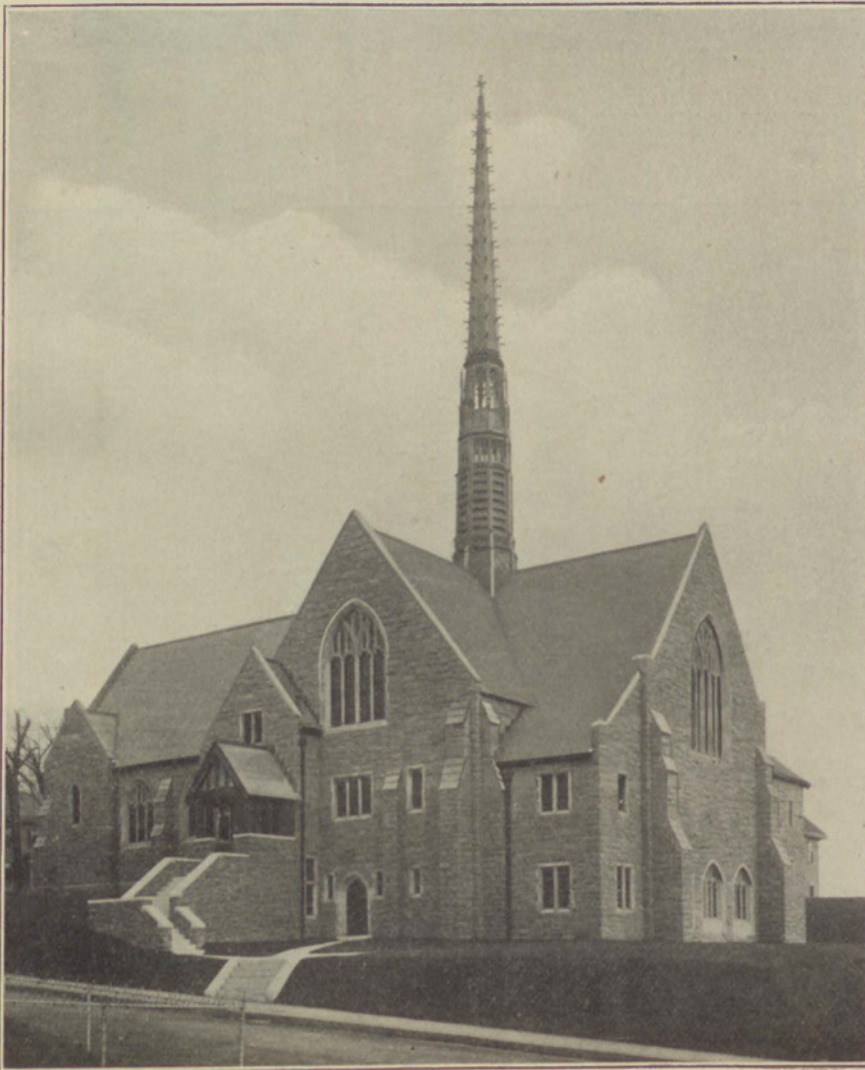
of the Universalist church did not take place until June 2 of the present year.

ALL SOULS CHURCH.

The All Souls Congregational Church occupies a commanding

site on the large square bounded by Broadway and State, French and York streets. Plans for the church were made by the architectural firm of Cram, Goodhue & Ferguson, Ralph Adams Cram, the senior partner, giving much personal attention to the building. The design is Gothic and the material red granite, a portion of the same coming originally from St. George, N. B. and the remainder from Red Beach in Washington County, Maine. The archway on the Broadway front came from the Central Church as did also a portion of the red granite used in the superstructure, and the trimmings of the building are of Indiana limestone.

The church has an extreme length of 127 feet and a width of 68 feet, including the transepts. A fleche, or spire, starts from the intersection of the nave and transept roof and rises to a height of 76 feet, the fleche being covered with ornamental copper. In the basement there is a Sunday School room, kitchen, dining room, etc., while on the ground floor is the large auditorium. The All Souls Congregational



Church is the outgrowth of a union of the First and Central Congregational societies and held services in City Hall until early summer when the lecture room of the new church was occupied. The first service in the main auditorium was held November 16 and the official dedication occurred November 30. The All Souls church is the largest and most costly erected in Maine for a considerable period of years and is worthy of the commanding location. Not only is the church handsome externally, but the interior impresses all favorably. The chancel arrangement is especially artistic and a richly carved screen separates the chancel proper from the organ inclosure, and along this screen in the center of the chancel are places for the church officers at communion. The communion table is of Gothic pattern and the pulpit and reading desk are enriched by carvings similar to those of the chancel screen. The entire chancel space has an inlaid oak floor.

The Leighton-Mitchell Company of 95 Milk street, Boston, were the contractors, and the All Souls Society was represented by a building committee of which Rev. Charles Albert Moore, D. D., the pastor, was the efficient chairman.

The plumbing and heating was supplied by C. H. Babb & Company; the electrical wiring by The Dole Company; the electric light fixtures by E. C. Lewis, Inc., Boston; the carved



UNIVERSALIST CHURCH DEDICATED JUNE 2, 1913.



THE FIRST BAPTIST CHURCH DEDICATED JUNE 15TH, 1913.

altar screen, inlaid floor and chancel furniture by William F. Ross & Company, Cambridge, Mass., the oak pews, by the George W. Wise Company, Boston; the organ, by Kimball, Smallman & Frazee Organ Company, Boston; the memorial windows, by Charles J. Connick, Boston; carpets, by C. A. Lyon, & Company, Bangor; and basement seats, by Haywood Brothers & Wakefield Company, Boston. The organ is an exceedingly fine one and the chimes are a donation of Melville H. Andrews. The electric light fixtures are swinging black iron censers of simple but churchly design.

street and the other from the vicinity of the corner of State and French streets.

FIRST BAPTIST CHURCH.

The First Baptist church was ready for occupancy in the early part of 1913 and the formal dedication took place on June 15. This edifice is of stone and the site is a commanding one on the west side of Center street opposite Somerset street, the old location having been at the foot of the hill. The church is of exceedingly attractive design and includes a splendid window in memory of the late Hon. Arad Thompson and wife, Louise



THOMPSON MEMORIAL WINDOW, FIRST BAPTIST CHURCH.

The auditorium has a seating capacity of about nine hundred and the lecture room, between four and five hundred. The original plans called for a parish house from the south transept, the building to have a length of 92 feet and an extreme width of 72 feet, to contain a banquet hall, amusement hall, Sunday School and class rooms, parlors, kitchen, etc. This will not be built immediately, but will doubtless be erected in the not distant future.

The illustrations accompanying this sketch show all Souls Church, one view from the intersection of Broadway and State

Baldwin Thompson, the memorial being an exact duplicate of the one destroyed. The study of the window is 'The Ascension', picturing the last hours of Christ on Mount Olivet, when, surrounded by the Apostles and holy women, He blessed them and disappeared from their sight among the radiant clouds. The window was made under the personal direction of Louis C. Tiffany, and was executed in Favrite glass. The three paneled form of the window is well adapted to the expression of the subject and the artist made admirable use of the opportunities presented. The church has a fine organ, a gift from Mrs. Gorham,

ST. JOHN'S EPISCOPAL CHURCH.

The St. John's Episcopal Church is the only church edifice in Bangor not as yet occupied, but it is expected that very soon now the vestry will be ready for occupancy. This church has been built from designs by Hobart Upjohn, grandson of Richard Upjohn who designed the original church many years ago. The original church was of wood, but the new edifice is of granite and of exceedingly attractive design, the general architecture being Gothic. In the completion of this edifice Bangor is to be enriched with a church that is a fine example of the beautiful in ecclesiastical architecture.

BANGOR'S BUSY WOODWORKERS.

Morse & Company enjoyed during 1913 one of the busiest seasons in the history of this widely known woodworking con-



ST. JOHN'S EPISCOPAL CHURCH.

cern. Among the large edifices erected in Bangor during the season just passed they have supplied the windows, frames, doors and general interior finish to the High School, Public Library, and Eastern Trust & Banking Company, Bangor Real Estate Company and Charles Stetson Estate buildings. Among contracts signed for the new year are the windows, frames, doors and interior finish of quartered oak for Bangor's new postoffice and custom house. They are supplying a large amount of the finish for the magnificent cottage being reared by Ira M. Cobe of Chicago at Northport on Penobscot Bay, and from five to six carloads have already been shipped there from Bangor. They are also supplying finish for the Haskell cottage being built by May & Townsend at Blue Hill and the Tower cottage at Seal

Harbor being built by W. S. Smallidge. They have also done a large amount of work for the Neighborhood Hall at Seal Harbor and have recently secured a contract for work on the government buildings at Vanceboro. Morse & Company, in addition to their extensive line of work in Bangor and throughout the state, have sent to Massachusetts a large amount of exterior and interior



ADVENT CHURCH.

finish, the notable buildings supplied being in the towns of Ipswich, Beverly, Charles River and Cape Cod.

The passenger traffic department of the Bangor & Aroostook R. R. has engaged space at the forthcoming third annual Travel, Vacation and Sportsmen's exhibition, which is to be held in the New Grand Central Palace in New York city, in March. The railroad will have a space of about 400 square feet attractively decorated. There will be large paintings at the rear to show the lake and woodland scenery of Maine, a log cabin for the entertain-



JEWISH TEMPLE.

ment of visitors to the booth, a campfire and many other interesting features depicting life in the Maine woods. In addition the industrial and agricultural features of the territory through which the B. & A. runs will be given attention.

The St. Stephen Board of Trade at a recent meeting adopted a resolution requesting the Eastern Steamship Corporation to keep the river route supplied with a steamer during the winter months,

BANGOR SAVINGS BANK

- A** Modern Savings Bank.
Fire Proof Building.
Burglar Proof Vaults.
Private Lock Boxes, \$4.00 to \$20.00 per year.
Large Vaults for the Storage of Trunks, Rugs, Pictures and other Valuables.
Special Rates on Bulky Valuables, Silverware, Etc.
Care has been taken to Provide an Absolutely Safe Depository for Peoples' Savings.

3 STATE STREET,

Office Hours: 9 A. M. to 3 P. M. Saturdays: 9 A. M. to 12 M.

BANGOR, MAINE

THE FURNISHINGS IN BANGOR'S NEW BUILDINGS—

—residences as well as offices—have been supplied in large part by us. In the furnishing of YOUR home or office, we offer YOU the same complete satisfaction in goods and prices. Investigate.

HODGKINS & FISKE CO.

Complete House
Furnishers

190-194 Exchange St.
Bangor, Me.

A. E. PURINTON, President H. W. KIRSTEAD, Manager
HORACE PURINTON, Treasurer

Bangor Brick and Construction Co.

(INCORPORATED)

Successors to Bangor Brick Co.

General Contractors and Manufacturers of Brick

Water Struck Brick, Fire Brick, Fire Clay, Flue Lining
Capacity 3,000,000 Annually

Cor. Fourth and Parker Sts., BANGOR, ME.

PENOBSCOT LUMBER & BOX COMPANY

ALL KINDS OF

Building Lumber and Finish

Northern, Southern and Western Lumber
Mill Work of All Kinds
Box Shooks and Boxes

BREWER

MAINE

CHARLES S. PEARL, President W. H. WHITEMORE, Treasurer

PEARL & DENNETT CO.

Insurance Real Estate

City Property
Farms

Summer Cottages
Camps

CORRESPONDENCE SOLICITED FORTY YEARS' EXPERIENCE

Pearl Building, 32 State Street

Telephone 3

BANGOR, MAINE

Established 1871

Incorporated 1911

Fred E. Eldridge Company

MODERN PAINT SHOP

BETTER EQUIPPED THAN EVER

98 HAMMOND ST., BANGOR, ME.

TELEPHONE 87

J. N. V. LANE Artistic Lighting Fixtures

Electric Wiring and Supplies

195 EXCHANGE STREET,

BANGOR, MAINE

FRED'K A. PATTERSON Architect

16 CENTRAL ST., BANGOR

BANGOR POWER COMPANY'S NEW DAM.

Completion of the Mammoth Concrete Structure across the Penobscot River at Veazie—
Many Interesting and Novel Engineering Features—Tainter Gates used for the
First Time in This Part of the Country.

THE Bangor Power Company have completed a new dam on the Penobscot three miles above the city and within the limits of Veazie. This enterprise has been one of large magnitude, involving an expense considerably in excess of \$175,000, and work has been materially delayed by the excessive rainfall which has at frequent intervals during the past year and a half kept the river at a higher pitch than usual.

The object in view has been to more satisfactorily harness the flow of the imperial Penobscot for the uses of the Bangor Railway & Electric Company whose extensive power house is located here. It has been an undertaking of far-reaching importance to Bangor and the whole Penobscot valley, and the completion of this important project means much for the future development of Bangor and its environs.

The old dam which is now replaced by the massive concrete structure was of wood, and for three score years and ten generated power for manufacturing and other purposes. In earlier years, lumber manufacturing was the chief industry, and the lumber mill here gave employment to a thousand hands. Later, lumber gave way to electrical development and one of the earliest established hydro-electric plants in America was located at this place. Of late years the wooden dam has leaked quite badly and there has been much loss of power occasioned thereby. With the new dam completed, the capacity of the plant can be very materially increased and the power can be thoroughly relied upon.

Work commenced on the new dam May 1, 1912, the site being below the old dam and opposite the power house. Cyr Brothers of Waterville had supervision of the work. The construction has been under the personal direction of J. A. Leonard, the chief engineer. Mr. Leonard is an engineer of wide experience in hydraulic engineering and it was under his supervision that the extensive power development of the Bar Harbor, and Union River Power Company, a subsidiary of the Bangor Railway & Electric Company, was consummated.

Among other extensive engineering operations which he has conducted in recent years are large projects in Minneapolis, Alabama, Georgia and West Virginia.

The dam is of the Ambursen type—reinforced concrete consisting of buttresses reinforced with steel and placed about fifteen feet apart the entire width of the river. The buttresses support a watertight deck which forms the dam and is placed at an angle of 45 degrees. The length of the dam is 580 feet, the width of the base being 20 feet and 4 feet wide on the top. The forebay is 250 feet long. It is of an average height of fifteen feet with a width of three feet at the bottom and 12 inches at the top.

The forebay is one of the most important parts of the new dam and includes many features of interest to engineers and also construction in some degree new to this part of the country. Exceedingly novel features are the two massive Tainter gates which are here used for the first time in the New England States, but have already come into use in portions of the West. These are shown in the illuminating picture accompanying this sketch, being at the lower end of the forebay not far distant from the power house and are capable of handling the entire average flow of the river. These gates are thirty feet wide by thirteen feet high. The face of the gate is curved upon an arc, and radial

arms run back from the gate to a pivot. The only friction that has to be overcome is that at the pivot, which counts as nothing, especially as the water pressing against the curved surface has a tendency to lift rather than to hold down. These two massive iron gates weighing many tons are set beneath great concrete arches that contain the regulating machinery above, the equipment being supplied by the Union Iron Works of Bangor. At present the gates are operated by hand power but soon an electric motor will be utilized and then it will be a simple undertaking to operate them.



NEW CONCRETE DAM OF THE BANGOR POWER COMPANY, SH

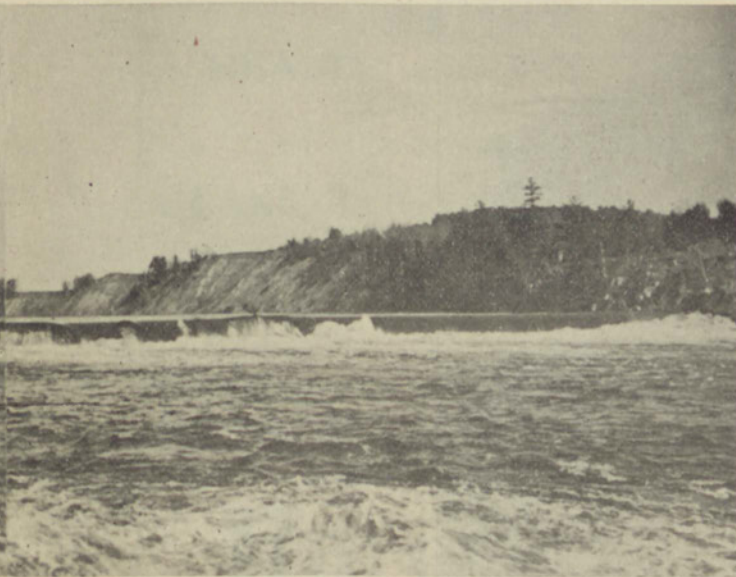
The engineers in constructing the outer wall of the forebay made use of a method that to their knowledge had never been employed for this purpose before. Instead of building a gravity section, which would entail a large amount of masonry, they put in a cantilever wall, a light reinforced concrete wall that depends upon steel rods embedded in the concrete for its stability. Its shape is much the same as the letter L and the weight of the water upon that part which corresponds with the horizontal part of the L keeps the wall from tipping over. Beneath the floor of the forebay are the tailraces from the wheels, the water coming in from the forebay passing through the wheels and passing out below. In order to keep the water that passes over the top of the forebay wall away from the mouth of the tailraces another feature of construction has been carried out that is even more novel. The entire wall is inclined about three feet out of perpendicular and the water flowing over the top falls far enough out so as not to interfere. There is no apron on the new dam. It is built just the opposite to the solid masonry dam which usually has its slope down river with the up-river side against the current, perpendicular or nearly so, where the river exerts its full pressure with a tendency to shove the dam down stream or tip it over. With the

type that is employed here, all the pressure from the water is directed against the deck at right angle, consequently, there is always a downward pressure which serves to more firmly place the masonry upon its foundation than to move it.

The dam has a novel log sluice. The sliding gate is of the Tainter type, but it does not hoist. Instead, it is lowered into a recess below the sill of the gateway from which it can be raised to any height.

The radial arms carry a covering of sheet iron on the top forming an apron. If for the purpose of passing logs down through, a foot or so of water is needed, the gate is lowered to the required distance and the logs go through. Under the old method, it was necessary to raise the whole gate and waste a lot of water; in these days, when the value of water is well known to all interested in power development, none of it is allowed to be needlessly wasted.

Construction on the dam proceeded during the season of 1912 under many disadvantages. In June of that year high water demolished the cofferdam for the forebay, and during the summer and fall months work was greatly interfered with by numerous and unusual floods. During the winter months work was



SHOWING THE TWO TAINTER GATES ON EXTREME LEFT.

practically suspended, but upon the advent of spring construction crews were again set to work, and under the personal direction of Engineer Leonard the dam has been finally completed.

As an indication of the magnitude of the enterprise, a crew ranging from one hundred and fifty to two hundred and twenty-five men were much of the time employed. The amount of reinforced concrete totals 12,000 yards. About 300,000 pounds of reinforced steel was used in the work. The amount of cement consumed aggregated 20,000 barrels and the rock excavation amounted to about 10,000 yards.

The new dam will greatly increase the power available, and with improvements contemplated ere long in the generating machinery, of the power station, the available horse power will be more than double that under the old conditions. The two Tainter gates work admirably and at times of ordinary flow will practically handle the entire flow of the river. The cantilever forebay wall inaugurated here has proved a complete success. It has withstood the rigors of a Maine winter when there was a large volume of ice in the river and has demonstrated its ability to withstand anything that a gravity section could take care of.

Engineer Leonard has established a unique record for closing

the concrete gates. In the construction of dams of concrete it is customary to leave openings which are closed when the work is practically completed. Then a wooden gate is put over the opening and the workmen go beneath the dam and fill in with concrete behind the gate. This is an expensive method and far from satisfactory, and Mr. Leonard entertained the belief that the openings might be closed with permanent concrete gates. Consequently he had the deck of the dam above the openings greased and then laid down paper and built forms for his gates. In the forms he built reenforced gates about two feet thick and weighing over twenty-tons. He did not know whether they would slide into place, but to hold them he had them tied to the top of the dam with steel cables. In actual practice, they slid so easily that three of the gates went into place as soon as the forms were removed and when the engineer was hardly ready for them, but they worked so well that the practicability of this method has been fully demonstrated. Another novel method in use has been in connection with the flashboards. In the olden time, it used to take nearly a dozen men with a scow several days to set the flashboards on a long dam, but in the present case the dam is equipped with hinge flashboards that are operated from above by means of a steel cableway supporting a car. Only two men are needed to operate it in this way and in half a day the flashboards can be put in place the entire length of the dam.

Electric power has figured conspicuously in the construction work, the mixer and the cables being operated in this manner, thereby saving time and effecting more satisfactory results. On the east side of the river is a fishway and an artificial brook has been cut into the ledge with cascades, pools, etc., forming a decidedly new and picturesque feature.

The Penobscot river has a width opposite Veazie of about 800 feet but the old dam, which has been blown up with dynamite during the closing days of December, extended up the river some distance before crossing, its total length being nearly three-quarters of a mile. At the Veazie end of the new dam there has been built a new wheel room adjoining the power station and in the near future it is expected new wheels will be installed. Prior to the construction of the new dam the water power available here was 2500 horsepower, but it is now approximately 3000, and with modern wheel equipment can be increased to 6000 horsepower.

The dam has been built for the Bangor Power Company under the general supervision of an executive committee made up of J. A. Leonard, Howard Corning and W. L. Sawtelle.

MAINE COMMERCIAL BODIES

The Board of Managers of the Portland Board of Trade has placed itself strongly on record as opposed to some features of the so-called La Follette Seaman's Bill.

Through the efforts of the Gardiner Board of Trade Water street in that city is to be illuminated during the holiday season similarly to that of a year ago but probably on a larger scale.

On the evening of December 3 the Fairfield Board of Trade had their regular monthly meeting in the engine hall and listened to a forcible address by Hon. J. Wallace Blunt, State Insurance Commissioner.

Hon. Frederic E. Boothby of Portland has recently been on a trip to Rochester, N. Y., where he participated in a conference of the directors of the Chamber of Commerce of the United States of America.

The Caribou Board of Trade is arranging for the entertainment of delegates from the boards of trade of Aroostook County who are expected to convene in Caribou in January. It is proposed to hold a day session followed by a banquet at the Vaughan House. It is said that the purpose of the convention is to consider the advisability of forming a permanent county organization for the promotion of the common interests of Aroostook.

BANGOR'S NEW BUSINESS BUILDINGS.

Building in the business section has been materially less than during the previous year and yet in 1913 have been erected a goodly number of handsome business structures, while others are projected for the coming year. Many and stately are the business edifices that have been reared since that fateful April day when Bangor was devastated by fire and approximately half a hundred of the new buildings are illustrated in these columns.

BUSINESS BUILDINGS.

The Bangor Real Estate Company have completed on State street between the Bangor Savings Bank and the Exchange building a fine edifice from designs made by Jardine, Hill &

granite with imposing facades in the style of the Italian Renaissance. The building has a frontage on State street of 61 feet and 73 feet on Exchange street, there being three stores and fifty-five suites of offices. The building has a concrete foundation with thoroughly modern equipment throughout, every possible precaution being taken to safeguard against fire. The furnishings of the interior are exceedingly attractive and the building is equipped with an Otis electric elevator. All modern conveniences in the most up-to-date office buildings are to be found here. John T. Clark & Company, the enterprising clothiers, occupy two of the three stores in the building. The Orono Pulp & Paper Company will have handsome offices in this building.



THE GRAHAM BUILDING.

Murdock of New York. The building is of brick with terra-cotta front and has three stories with abasement. The frontage is 57 feet and the depth 61 feet. The Otto Nelson Company were the builders and the building is now occupied. Among the tenants on the ground floor are the Stickney & Babcock Coal Company and Bacon & Robinson Company. The second and third floors are fitted up into commodious offices. The building represents an investment of about \$70,000.

In the Exchange Building at the corner of Exchange and State streets the Bangor Real Estate Company have reared a splendid office building and it is now rapidly nearing completion, some of the stores and many of the offices being already occupied. Peabody & Stearns, the designers of the Public Library and High School, were also the architects for this building. It is a structure of six stories with a basement and is constructed of brick and

William F. Curran, the treasurer of the Bangor Real Estate Company, will have offices in the building for his real estate and insurance interests. The Exchange Building represents an investment of about \$160,000.

John Cassidy has during the year thoroughly remodeled and put in excellent condition the building at the corner of Broad and Independent streets. The walls are covered with slate and the building has a graveled roof. John McEwen was the contractor and work has been completed during the closing half of December. John Cassidy occupies the larger part of the ground floor, but the upper part will be devoted to the manufacturing business of Berry & Smith who will also have an office and salesroom on the ground floor fronting Haymarket Square.

A. Langdon Freese has increased his Main street store by acquiring through lease the Hill block which he has extensively

GEORGE H. WILBUR & SON**Builders***OLD TOWN, MAINE***BANGOR OFFICE
208 Exchange Street**

GEORGE H. WILBUR

LESTER C. WILBUR

INSURANCE

ALL KINDS, INCLUDING

**FIRE, LIFE,
HEALTH and ACCIDENT
CONTRACTS**

AT THE LOWEST RATES

BLAKE, BARROWS & BROWN

BUSINESS ESTABLISHED 1864

AT 9 CENTRAL STREET, BANGOR, MAINE

**THE
HAYNES & CHALMERS CO.**

JOBBER AND RETAILERS OF

Hardware**Iron, Steel, Contractors' Supplies, Etc.****SPECIALTIES**H. & C. Certainteed Asphalt Roofing
Buffalo A. L. O. Paint

176-178 EXCHANGE STREET, BANGOR, MAINE

G. PARKER GROWELL**Architect****44 CENTRAL ST., BANGOR****Bangor Loan & Building Association**J. A. BOARDMAN, President E. F. DILLINGHAM, Vice President
ARTHUR CHAPIN, 2d Vice-President
H. C. QUMBY, Secretary and Treasurer**Organized February 15, 1886**

22 BROAD STREET, BANGOR, MAINE

G. B. DERBY COMPANY**Truckmen and Forwarders**

Machinery, Safe and Boiler Movers

Practical Piano and Furniture Movers

Sand, Gravel and Ledge Rock

Office, 27 Mercantile Sq., BANGOR Tel. Connection
Stables, Market Street**STERNS LUMBER CO.*****Lumber Manufacturers***

Spruce Dimension A Specialty

BANGOR, MAINE. Steam Mill and Wharves, Ea. Hampden

ATKINS BROS. COMPANY**HOUSE PAINTING****PAPER HANGING****GRAINING, ETC.**

Wall Papers, Painters' Supplies, Oils and Varnishes, at Lowest Prices

72 Columbia St., Cor. Cross, Bangor, Maine

VICTOR HODGINS**Architect**Plans and Specifications furnished upon application. Estimates made
in Brick, Stone, Wood, Steel or Reinforced Concrete Construction.

39 HAMMOND ST.,

BANGOR, MAINE

W. L. THURSTON

R. A. KINGSBURY

THURSTON & KINGSBURY**Wholesale Grocers****and Jobbers of Teas and Coffees**

Manufacturers of Flavoring Extracts and Confectionery

64 to 68 BROAD ST., BANGOR, ME.

FUEL OF ALL KINDS**WHOLESALE — RETAIL**

Patronage Solicited

Stickney & Babcock Coal Co.

19 STATE STREET, BANGOR, MAINE

PAUL D. HIGGINS**Farms, City Property, House Rents, Investments****INSURANCE OF ALL KINDS**

JUSTICE OF THE PEACE

AUCTIONEER

40 CENTRAL STREET,

BANGOR, MAINE

FLAGS**OF ALL KINDS AND SIZES**

FLAG POLES, FLAG STAFFS, STAFF HOLDERS

SILK PARADE FLAGS A SPECIALTY

G. A. R. POSTS SUPPLIED FOR MEMORIAL DAY

If you want anything in the Flag line, see me.

CHAS. M. STEWART, BANGOR

37 PARK ST., ODD FELLOWS BUILDING

remodeled and has also erected in the rear an addition of brick 50 by 75 feet and two stories. These improvements were designed by Wilfred E. Mansur, the architect.

The Graham Realty Company has during the present season erected a brick and concrete building of one story on Franklin street. This utilizes all the available space between the two brick and concrete buildings erected in 1912 by the Graham Realty Company.

The Graham Realty Company will extensively enlarge, during the coming year, its building on Central street and the Kenduskeag. This building was built one story high, but Mr. Graham is having plans drawn by Mr. Mansur and it is expected that the work of construction will commence early in the season. While it is not as yet definitely assured as to the height of the building, there will be at least two stories more and it is quite probable that five stories will be added, making six stories in all.

C. S. Jones, on Pickering Square, has well advanced towards

Central street. The new building is to be reached from Harlow street and is expected to be connected with the old postoffice site by a bridge. The building is to be 180 feet on the waterfront and 75 feet in width. Victor Hodgins is the architect, and the building is to have three stories and a basement. The walls of the superstructure will be of pressed brick, probably light colored. The entire building will be practically fireproof. The wall along the Kenduskeag is of granite backed up with concrete and is 6½ feet in width on the bottom and 3 feet on the top. There are in all 24 foundation piers, and the foundation piers and walls will average a height of 22 feet. The bottom wall along the water is 4 feet below the river bed. The upper floor of the building will be devoted to a convention hall with a twenty foot ceiling and with an exceedingly large stage and with six or eight dressing rooms. There will be a clear floor space of 72 by 110 feet on the upper floor. The Cyr Brothers of Waterville were the contractors on the foundation, and it is expected that the building



THE PEARL BUILDING AND ITS ENVIRONS.

completion a handsome building to be devoted to his large fish business. Victor Hodgins is the architect and the Otto Nelson Company the contractors. The building is three stories with a frontage of 22 feet and a depth of 63 feet. The first story will have a height of 13 feet, the second, of 11 feet, and the third, of 10 feet. The building is to be of terra cotta in two colors, light green and gray granite imitation. The first story interior will have stucco plaster ceiling and a ceramic tile floor and enamel walls. The second floor will have stucco plaster, white brick walls, and hardwood floors; the third, the same as the second. On the first floor in the rear there will be an office with an open fireplace. The building will be equipped with an electric elevator to run from the basement to the third floor. The new building will be a distinct addition to that section of the city and is expected to be open around the vicinity of Christmas.

C. W. Morse has commenced the erection of a large building along the Kenduskeag between the State street block of the Eastern Trust & Banking Company and the Central Building on

will be let during the winter months. Should Mr. Morse use the new building as a stable it will be made a thoroughly modern and sanitary one in every particular, but there have been inquiries from parties who may use practically the entire building outside of convention hall for business purposes. The new building is to be equipped with an elevator sufficiently large to take up automobiles.

The estate of Charles Stetson are erecting a handsome business block on Central street. The new building has a frontage on Central street of 150 feet and extends along the Kenduskeag river for 60 feet. The concrete foundation was built by J. & J. T. Mullen, and George H. Wilbur & Son are the contractors on the superstructure. C. Parker Crowell designed the foundation and is associate architect on the superstructure which is being erected under his supervision. A handsome gray brick is being used and the new building will be an ornament to that section of the city. The building has three stories and a basement and there are in all six stores with offices on the second and third

floors. The plans call for 35 offices, but a portion on the second and third floors will not be finished immediately, and therefore, only 25 offices will be completed when the building is ready for occupancy in April. The heating is to be supplied by C. H. Babb & Company, the plumbing by E. F. Kelley & Son, and the electrical outfit by The Dole Company.

ent seating capacity will be 1,480. No gallery will be put in at present, but one can be added later if desired. The stage has a depth of 24 feet with an arch 32 by 23 feet. On the State street front there will be a handsome store to be occupied by Cushman & Worth, the florists. The Star has a handsome electric sign and opened to the public Christmas day.



EXCHANGE STREET BUILDINGS.

THEATRES.

The Graham Realty Company have had plans drawn by Wilfred E. Mansur, the architect, for a thoroughly modern and absolutely fireproof theatre. Mr. Graham is a great believer that the moving picture business has come to stay and he desires to supply Bangor with the latest and best that can be designed. The location would be in the rear of the Graham building and Windsor Hotel and between the Graham buildings on Central street and those on Franklin street with a frontage along the Kenduskeag. The plans drawn by Mr. Mansur call for a concrete building 75 by 112 feet and with a height of 35 feet. The new building will have a seating capacity of 1,200 and a multiplicity of exits; the main entrance will be from Central street.

MISCELLANEOUS.

The Condukeag Canoe and Country Club completed in the spring extensive improvements at its fine club house on the banks of the Penobscot river within the limits of Hampden. To the former clubhouse has been added a large dining hall and serving room, while the broad verandas have been carried around three sides of the house. Many improvements have also been made on the extensive grounds.

Jacob M. Ross has built an extensive bottling plant on Main street adjacent to the Hose Two engine house. The building is of frame construction, 60 x 40 ft., three stories, and heavily timbered. The equipment is thoroughly modern.

The Eastern Manufacturing Company have made many im-



CENTRAL STREET BUILDINGS.

Pope D. McKinnon has practically completed at the corner of State and Park streets a large theatre to be called "Star Theatre". The building is 60 by 174 feet. The plans have been made by Victor Hodgins, the architect. John McEwen has been the builder and 100,000 brick has been used. The main entrance is at the corner with an elaborate pillar on each side. The pres-

provements during 1913 at their extensive plant in South Brewer. A brick addition has been made to the rag room doubling its capacity and five new boilers aggregating 1000 horsepower have been installed.

The Salvation Army are rearing at the corner of York and French streets a workingmen's hotel. The plans were drawn

by C. Parker Crowell, the architect, and the Bangor Brick & Construction Company are the contractors. The building is to have a frontage of 75 feet on York street and a depth of 45 feet. There will be three stories and a basement. The plans call for 38 rooms with one in a room and a dormitory for 32, thus providing sleeping accommodations for 70 people. On the first floor there will be a hall with seating accommodations for 300 and also an office and smoking room. In the basement there will be a banquet room and kitchen for the use of the Salvation Army, and in the second floor there will be a seven-room flat for Adj. Armstrong. The building is to be of water struck brick with cast stone trimmings. The concrete foundation is already completed and in the spring work will be pushed on the brickwork. Horace Purinton of Waterville, the treasurer of the Bangor Brick & Construction Company, is one of Maine's best known contractors, while H. W. Kierstead, the manager, is a graduate of the University of Maine and a young man of energy and capacity. It is expected that the Salvation Army will be established in their new quarters by August 1, 1914.

During the past season at Dorothea Dix Park on the line of the extension of the Bangor Railway & Electric Company's line and distant about half a mile south of Hampden Highlands there

over the railroad company's tracks. The southerly end of this span is to rest upon a steel superstructure or pier which will also support one of the city's spans, and until this superstructure is ready the city's span cannot be built. The present indications are that the new spans will be put in in the early spring and that trolley connection will then be speedily consummated. In the



ODD FELLOWS AND ONE HUNDRED ASSOCIATES BUILDINGS.

meantime the Bangor Railway & Electric Company have done all that is possible to facilitate travel, and passengers in making the journey only have to walk a comparatively short distance to make the transfer.

In the spring of 1913, the new steel bridge across the Stillwater branch of the Penobscot at Orono, was completed. The completion of this new bridge has been a great convenience, not only to trolley passengers, but also to vehicles and pedestrians, all the travel to and from the University of Maine going by this route. The bridge is of two spans, 174 feet each, and the concrete abutments involved expense considerably larger than was at first contemplated. The town of Orono paid \$12,000 and the Bangor Railway & Electric Company considerably more than twice that amount, the total expense being about \$40,000.



GRAHAM REALTY COMPANY'S BUILDINGS ON FRANKLIN STREET.

has been erected a wall and memorial arch. The construction is field rock and cement and the wall, four feet high, extends the entire frontage of twenty-three rods on the highway. In the center is the memorial arch twenty-one feet high and twenty-four feet wide with the lettering, "Dorothea Dix Park" conspicuously displayed. The arch was designed by Victor Hodgins, the architect, and was built by John Grady & Son, the Bangor contractors. A bronze tablet has also been secured and will be placed on the memorial arch. The tablet reads as follows: "Dedicated to the memory of Dorothea Lynde Dix who was born here April 4, 1804, and attained an international reputation for her humane services in the improvement of the condition of those confined in jails, prisons and insane asylums and whose noble and self-sacrificing work as a nurse during the Civil War gave her the friendship of President Lincoln."

BRIDGES AND HIGHWAYS.

The long-desired wish of Brewer citizens to have direct trolley connection with Bangor has not as yet been quite realized. Early in the season it was anticipated that this would be brought about before the close of 1913, but before the tracks of the trolley can connect the two cities there must be two more spans put in covering the tracks of the Maine Central Railroad and the oldtime draw. Under an agreement with the city, the Maine Central is bound to erect the first span from Washington street



CHARLES STETSON BUILDING.

Old Town has, during 1913, been the scene of extensive bridge building. Early in the season a steel bridge was thrown across the Penobscot from Old Town to the Treat and Webster Island and now a concrete bridge is being built from Treat and Webster to Milford. Both of the old bridges which they thus replaced have been oldtime state bridges and the state legislature has made liberal appropriation for the construction of the new.

W. F. Sawyer & Co., contractors, have done a very extensive job for the city on the site of the old custom house and postoffice. In addition to taking down the ruins of the federal building they have constructed between twelve hundred and fifteen hundred yards of wall with granite facing and concrete backing, and have also built a twenty foot abutment to the Central street bridge.

John Grady & Son have confined their contracting business during 1913 largely to municipal paving. On State street they laid a large amount of wooden paving and likewise on Exchange street, Hancock street, Harlow street and on the Bangor and Brewer bridge, the total aggregating to about one-half mile of wooden paving, the cost to the city being \$29,333.61 and to the Bangor Railway & Electric Company, \$11,113.83. In addition to wooden paving, John Grady & Son laid also about one-half mile of granolithic sidewalks.

DWELLINGS.

O. Crosby Bean, Leighton Street, dwelling.

George W. Berry, Russell Street, dwelling.

A. H. Boober, Broadway and Liberty Street, dwelling.



MURRAY BROTHERS COMPANY'S BUILDING.

E. R. Brooks, Mt. Hope Avenue, dwelling.

Phoebe H. Burr, Fremont and Dayton Streets, dwelling.

Julia E. Byrns, Fraser Street, dwelling.

Lynch Cameron, East Summer Street, dwelling.

John N. Carpenter, French Street, dwelling; F. A. Patterson architect.

John N. Carpenter, French Street, dwelling; F. A. Patterson architect.

John T. Carter, 34 Sanford St., dwelling, John T. Carter, builder.

E. H. Dakin, French Street, dwelling.

E. H. Dakin, 295 French Street, dwelling.

E. H. Dakin, Prospect Street, dwelling.

James E. Dean, First Street, dwelling.

Thomas Donovan, 135 Kenduskeag Avenue, dwelling.

Hayward C. Dunham, 89 Cumberland St., three-flat house.

Katharine C. Freeman, French Street, dwelling.

John M. Grant, 8 Graham Ave., dwelling, J. M. Grant, builder.

George W. Hall, 21 Fourth Street, dwelling.

Benjamin Hamm, Catell St., dwelling, two flat house, F. A. Patterson architect.

A. B. Haskell, 196 Elm St., dwelling, F. L. Bradley, builder.

A. B. Haskell, Linden Street, dwelling.

A. B. Haskell, 192 Elm Street, dwelling, F. L. Bradley, builder.



PIERCE BUILDING ON FRANKLIN STREET.

Clara Hawley, Fourth St., dwelling, J. T. Carter, builder.

M. T. Higgins, French and Garland Streets, dwelling.

Herbert C. Hicks, 183 Norway Road, dwelling.

Harold Hinkley, State St., dwelling 31 by 65 feet; two stories, with ell; shingled all over, the architecture being along English lines. C. Parker Crowell architect and Benjamin Mathewson contractor; to be ready for occupancy March 1.



KIRSTEIN BUILDING ON CENTRAL STREET.

Charles Hutchinson, 69 Lincoln Street, dwelling.

Heywood S. Jones, Webster Ave., bungalow.

Louis Kirstein & Sons, Congress Street, dwelling.

Eben Leavitt, 437 Union St., bungalow.

Mrs. Katharine Lynch, 243 Maple Street, dwelling.

T. S. Murphy, Holland Street, dwelling, F. A. Patterson, architect.

J. A. McCann, Sixth Street, dwelling.

F. S. Morse, 101 Fairmount Street, dwelling, F. S. Morse, builder.

W. F. Sawyer, 489 Essex Street, bungalow.

G. A. Sprague, 254 French Street, dwelling.

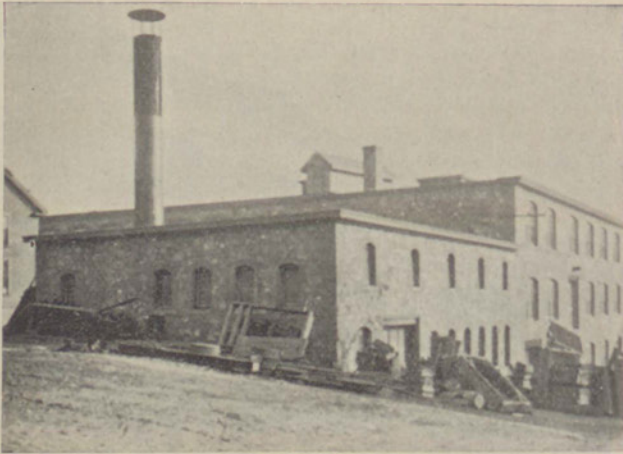
F. E. Sylvester, dwelling, stable and garage.

Morris Sterns, Newbury Street, dwelling.

Eugene W. Wentworth, Linden and Norfolk Sts., dwelling.

A leading Boston architect in renewing his subscription to THE INDUSTRIAL JOURNAL thus writes to the editor: "The years certainly pass along very quickly, and I am again enclosing a check for my subscription to THE INDUSTRIAL JOURNAL which keeps me in touch with the live work going on in the business world of Maine better than any other publication which comes to my desk. Wishing you continued success, I am, Sincerely yours."

The Bangor Railway & Electric Company have purchased and put in use an electrical bonding machine for improving the contiguity of the rail return circuit and for the prevention of possible electrolysis. They have also purchased and installed



PENOBSCOT MACHINERY COMPANY'S FOUNDRY AND MACHINE SHOP.

F. S. Morse, Hammond Street and Norway Road, dwelling, F. S. Morse, builder.

Catharine Nickerson, 170 Third Street, dwelling.

Mrs. Hattie F. Patterson, 75 Spring Street, dwelling and stable

Charles D. Pearsons, 50 Leighton Street, dwelling, J. M. Grant, builder.

Grace S. Phillips, 92 Seventh Street, dwelling, F. S. Morse, builder.

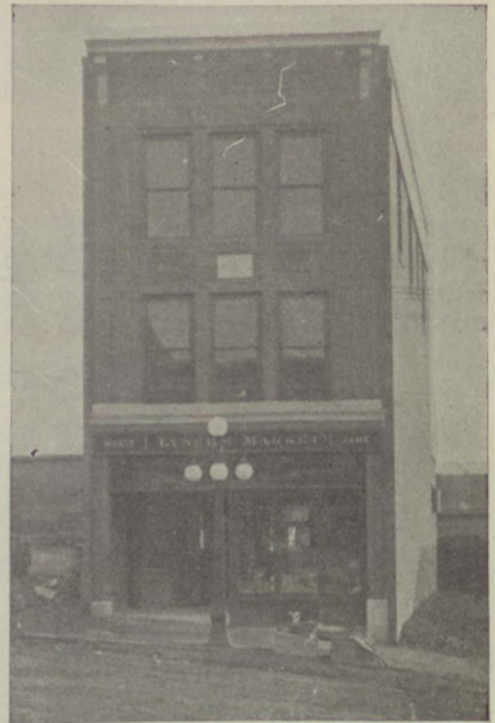
Henry Prentiss, State St., large and handsome residence, two stories, walls shingled and roof slated; to be ready for occupancy in the spring; F. A. Patterson, architect.



EXCHANGE BUILDING.

J. Racklin, Hancock and Boyd Streets, dwelling.

Walter L. Sawtelle, Bellevue Ave., residence 28 by 45 feet, two stories, to be shingled all over and with hip roof. C. Parker Crowell architect; Otto Nelson Company contractors on the foundation. To be ready for occupancy in the early summer.



C. J. LYNCH'S BUILDING.

five pulmotors for giving help to employees or others who may be injured. Three of these pulmotors are established in Bangor, one in Ellsworth and one in Bar Harbor.

The Hamlin Rocking Grate is in steadily increasing demand. A large number of them are at present in use in Bangor where they give excellent satisfaction. Among recent installations have been the Graham building, the Bangor House, the C. Stetson Estate building on Central street and the White Star Laundry.

The Hodgkins & Fiske Company have been important factors in the furnishing of Bangor's new buildings erected since the fire. Among the important orders filled by them this season has been the general furniture for Bangor's new high school building.

J. N. V. Lane, the Exchange street electrician, has secured the contract to wire for electric lights the Hannibal Hamlin school at the corner of Union and Fourth streets, and also the school building on State and Pine streets.

OTTO NELSON COMPANY

GENERAL CONTRACTORS

.....FOR.....

Architectural and Engineering Construction
Work done by Contract, on a Percentage, or on a Cost Plus Fixed Sum Basis
194 EXCHANGE STREET, BANGOR, MAINE

CONCRETE BRICK

Get your Machine now. Get ready for Spring. See Brick Machine with Damper at W. E. Fish Plant, Broadway, Bangor.
Demand growing. All kinds Concrete Outfits.
S. S. KIMBALL, 116 West Broadway, Bangor, Me.

Established 1845

Telephone 1265-2

LESLIE W. CUTTER

Architect and Contractor

BANGOR

MAINE

Beaver Board

Mill Work and Planing

Veribest Roofing

HOOPER

THE TAILOR

BANGOR, MAINE

KIRSTEIN BUILDING, 44 CENTRAL STREET

We also do lots of Cleansing, Pressing and Repairing, because we do it well.

LOUIS KIRSTEIN & SONS

Largest Real Estate Agency
in Eastern Maine

Houses House Lots Investments Timberlands
Business Openings Farms

Merrill Trust Building, 12 Hammond St., BANGOR, ME.

HENRY LORD & CO.

Ship Brokers, Commission Merchants
Wholesale Ice Dealers
Fire and Marine Insurance

HENRY LORD
EDWIN LORD

NO. 70 EXCHANGE ST., BANGOR, ME.

C. H. BABB & CO.

Practical Plumbers and Heating Engineers

Galvanized Iron Roofing and Cornice Work

106 EXCHANGE STREET, BANGOR, MAINE

WILLIAM E. FISH

Mason and General Concrete Contractor

Miracle Double Air Space Concrete Blocks

Manufacturer of Cement Brick—All colors. Estimates Furnished

392 BROADWAY, Office 114 CENTER ST.
Tel. 550 BANGOR, MAINE Tel. 1257-11

JOHN McEWEN

General Contractor and Builder

Contracts Finished on Time Telephone Connection
117 Palm St., Bangor, Me.

WHEN THINKING OF BUYING REAL ESTATE or FIRE INSURANCE

Remember the Agency of

ARTHUR H. BLACK

57 STATE STREET, BANGOR, MAINE
(Black will use you White)

GALEN S. POND

FUNERAL DIRECTOR
and EMBALMER

169 Park St., Telephone Connection Bangor, Me.

E. LISHERNES

Civil and Hydraulic Engineer

Topographical and Hydraulic Surveys Lumber Estimates

Designs of Power Developments

Reinforced Concrete Buildings and Structures

GRAHAM BUILDING, BANGOR, MAINE

BROOKS BRICK CO.

MANUFACTURERS

Wire-Cut and Water Struck Brick

AND LAND TILE

Face and Common Brick in any quantity Fire Brick constantly on hand
BREWSTER, MAINE

BANGOR WINDOW & SIGN CLEANING CO.

GEORGE P. GOULD, Prop.

Store, Office and House Cleaning of all kinds

Up-to-Date Methods Used Try Our Service

45 COLUMBIA ST., Telephone 2-2 BANGOR, MAINE

WM. Z. CLAYTON CO.

Undertakers

H. CLIFTON EYE, PROPRIETOR

EMBALMER AND CORONER

Out of Town Order Promptly Attended to.

BANGOR, Telephone Connection House and Office MAINE

J. F. GERRITY COMPANY

Long and Short Lumber

319 WASHINGTON STREET, BOSTON, MASS.
44 CENTRAL STREET, BANGOR, MAINE



PUBLISHED AT

117 Exchange St., Bangor, Me.

—BY—

THE JOURNAL PUBLISHING CO.

E. A. BLANDING, Pres. & Mgr. E. H. DAKIN, Treas.

Issued monthly at \$1.00 per year in advance.

Advertising rates made known upon application.

All letters should be addressed to

THE INDUSTRIAL JOURNAL, Bangor, Maine.
LONG DISTANCE TELEPHONE 1390.

Entered at the Bangor Post Office as Second-Class Matter Oct. 17, 1901

THE JOURNAL extends to its many readers and patrons the heartiest wishes for a happy and prosperous year.

Bangor has been honored by a visit this month from the Maine State Grange. The attendance was large and the sessions both interesting and profitable. Hon. C. S. Stetson, the Master, was reelected by a large majority. With a membership of 60,000 the Grange has become a most important factor in the state's advancement. Hospitality in generous measure was extended the visitors by Bangor business men.

Bangor is justly proud of its electric street illumination. Through zealous efforts of the Bangor Chamber of Commerce Main street was very brilliantly lighted during the Christmas shopping period and through the active labors of President Graham of the Bangor Railway & Electric Company Central street was brilliant with electric illumination. A movement is on foot to have the illumination extended to Exchange street.

Preparations are under way in Machias to present to the new torpedo boat destroyer O'Brien which is being constructed for the government at the Cramp ship yard near Philadelphia, a bronze tablet. This is the second vessel that has been honored with the name of O'Brien. The first torpedo boat was launched Sept. 24, 1900, at the Crescent Yard, N. J., and the second was started the early part of this year and is about 25 per cent complete. That the government should name two warships for Jeremiah O'Brien shows appreciation for what was accomplished by the Machias naval hero.

The Bangor Council, U. C. T., are making progress in arranging for their big food fair to be held in City Hall, Feb. 3-7. The committee has voted to hold a vaudeville entertainment in connection with the fair and the committee will arrange with a representative of the United Booking Offices of America for six first class vaudeville features. In former years three acts of vaudeville have been given at the fair, but the committee has planned everything on a larger scale this year. The merchants will co-operate with the U. C. T. in making the week an eventful one and reduced rates will be offered on the railroads.

"It is only within recent years that the real causes and corrections of our enormous fire waste have been clearly understood,"

remarked State Insurance Commissioner J. W. Blunt when asked about this important movement recently. "This campaign," he continued, "is of decidedly recent origin. About ten years ago the plan of a state officer empowered to investigate and regulate fire waste was first adopted in Massachusetts. By 1906 about half a dozen other states had followed suit. During the past five years there has been a marked awakening throughout all circles of the country concerning the size and character of fire waste in life and property, and the fact that it is in large part needless and preventable. During this time forty states have installed fire marshals or other officers with similar powers, and many municipalities having realized that the bulk of this danger and loss was in their congested areas, have begun to exercise police power more freely and intelligently through varying agencies to control and abate it. Of late, especially, civic and commercial bodies are recognizing their responsibility in the matter, and are beginning to take a determined hand in bettering fire waste conditions."

BANGOR BUILDING REVIEW.

THE JOURNAL devotes a large portion of its present issue to a review of Bangor building operations. Annually for two successive years we have given in the columns of the December number descriptions of the new buildings erected or in process of construction and now we bring out the third edition.

On April 30, 1911, fifty-five acres of Bangor's business and residential sections were devastated by fire but in the two years and eight months that have since elapsed a new and far better city has arisen. With courage undaunted and optimistic faith in the future of the metropolis on the Penobscot our enterprising and patriot citizens have reared edifices highly creditable.

The building record for the eight months of 1911 was truly a phenomenal one, and in 1912 the building operations were likewise noteworthy. The record for 1913 is less in number of buildings than either of the two previous seasons but is especially notable for the size and elegance of the edifices erected. Particularly worthy of mention are the Public Library and the High School and the completion of these magnificent structures indeed mark an epoch in the history of our progressive city. Long if not patiently have we waited to see erected in our midst a handsome library building and a commodious high school and it is therefore exceedingly gratifying to know that we now have edifices of which any city in this broad land may well be proud.

In the building world the volume of new construction has generally been less than the two years immediately preceding and yet the record for New England during the year just closing has been of large proportions, being only surpassed by the phenomenal figures of 1912. The year now rapidly drawing to a close has been exceedingly favorable for new construction and the mild weather prevalent through most of the month of December has been very helpful to contractors generally, enabling them to bring their season's work to a most satisfactory close.

As to the volume of new building for the coming year it is too early to predict with certainty. Plans have already been made for several new buildings and others are under contemplation. A season of fair activity is to be expected.

AMONG THE BANGOR ARCHITECTS

C. Parker Crowell has commodious offices in the Kirstein building on Central street. The Eastern Trust and Banking Company's new block was designed by Mr. Crowell and erected under his supervision. Mr. Crowell was the associate architect on the new building now being erected by the Charles Stetson Estate on Central street and has general supervision of its construction. He is also the architect of the Salvation Army headquarters now building at the corner of York and French streets. He is the architect for the handsome residence nearing completion on State street for Harold Hinckley and also designed the attractive residence now building for Walter L. Sawtelle on Bellevue Avenue. Mr. Crowell designed the dormitory for women at the University of Maine, the plans calling for a building 140 by 58 feet, three stories and basement and with accommodations for ninety students with two in a room, the dormitory being located south of the library and facing the same way. The John W. Burrows Company of Portland, are the contractors and are laying brick, it being expected that the building 45 by 58 feet will be completed by June 1, and be about one-third the



CENTRAL FIRE STATION.

length originally proposed. Mr. Crowell has also designed a residence at Orono for Prof. C. B. Brown and a residence at East Millinocket for the superintendent of the Great Northern Paper Company.

Victor Hodgins has designed a large building for C. W. Morse along the Kenduskeag Stream and accessible from Harlow street; the foundation and concrete piers are all in place and it is expected that work will commence on the superstructure with the advent of spring. Mr. Hodgins also drew the plans and designed the new Star Theatre being built at the corner of State and Park streets for Pope D. McKinnon. He also made the plans for the handsome block building on Pickering Square for C. S. Jones, dealer in sea food. He designed likewise the attractive memorial arch which has been placed over the entrance to Dorothea Dix Park in Hampden. J. J. Hone's new theatre completed in Presque Isle and with a seating capacity for 1,400 people was designed by Mr. Hodgins and he also made the plans for Morris Klein's new block at Presque Isle opposite the hotel; this building is two stories and basement and has six stores. Mr. Hodgins in March moved into his new and attractive residence completed during the past year in Hampden and it is viewed with general approbation by travelers on the trolley line between this city and Riverside.

Wilfred E. Mansur is the architect who designed the addition made this year at the Bangor State Hospital. He has made

plans for a fireproof concrete theatre to be erected by John R. Graham along the Kenduskeag and between Central and Franklin streets and has also made plans for adding five new stories to Mr. Graham's one-story building on Central street between the Kenduskeag and the present postoffice. Mr. Mansur also made the plans and had supervision of the remodel-



CENTRAL BUILDING.

ing of the Hill block on Main street for A. Langdon Freese and also the building of the two-story brick addition in the rear. The plans for the recent enlargement of the Conduskeag Canoe and Country Club's clubhouse in Hampden were made at this office, being executed by George I. Mansur. Wilfred E. Mansur designed the new and handsome brick dwelling erected this season at Old Town for S. B. Gray, president of the Old Town Chamber of Commerce, and manager of the Old Town Canoe Company,



SWIFT & COMPANY'S BUILDING.

and he is also now making plans for a spacious brick house of attractive design for George H. Wilbur, the widely-known contractor, the new home to be erected in Old Town during 1914.

Frederick A. Patterson designed a large and handsome dwelling for Henry Prentiss on State street; two dwellings for John N. Carpenter on French Street, a two-flat house for Benjamin Hamm on Catell street and a two-story house on Holland street for

Thomas I. Murphy. Mr. Patterson has a large out-of-town business and has a branch office in Waterville. Among other buildings designed by him are the following; a theatre at Milo; school building at Monticello, in Aroostook County; brick garage for Manly Morrison at Waterville; two-story brick block for Hon. W. T. Haines at Waterville; at two-story building for the Waterville Steam Laundry; brick primary schoolhouse at Water-



BIJOU THEATRE.

ville; additions and alterations for the Sisters of Charity Hospital at Waterville; three-story frame shoe factory for L. E. Hilliard Waterville; theatre for Arthur Ponsant, Waterville; block for T. F. Connor, Pittsfield; a block with store, post office and offices for A. F. Donigan at Bingham; and a boat house and bath house for Charles Hills at Belgrade Lakes. He has also made plans for remodeling a block of three stores for Mr. Ciguere at Waterville, has made plans for remodeling the Bay View House in Waterville



L. W. CUTTER'S BUILDING.

and also plans for a theatre, store and hall for A. St. Leger in Pittsfield; the foundation is already in and the new building will be reared during 1914.

Orman B. Humphrey, consulting engineer, with office at 57 State street, has supplied C. S. Jones' new building on Pickering Square with a Salem electric elevator.

The Penobscot Lumber & Box Company report an exceedingly busy season. Their commodious and splendidly equipped plant in Brewer has been run to its full capacity under the management of R. H. Wish. Eighty hands have been employed regularly and at present the crew is in excess of one hundred. Among the buildings equipped from this establishment with exterior and interior finish have been the Jones block on Pickering Square and the Hinckley and Prentiss houses on State street. Among orders filled outside the city have been the following: schoolhouse at Monticello; house for the superintendent of the Great Northern Paper Company at East Millinocket; the Elks Club of Waterville and the new dormitory at Farmington. Large quantities of building finish have been shipped out of the city to various parts of eastern and northern Maine. The new school building of the Eastern Maine Conference Seminary at Bucksport was supplied from this establishment, and likewise many summer cottages along Penobscot Bay. A night crew is employed at present in the planing mill and it is planned ere long to materially enlarge the box department.

E. Lisherness, civil and hydraulic engineer, has removed from his former location on Exchange street and now occupies large and very commodious offices on the second floor of the Graham building. Mr. Lisherness has recently made a large map about six feet square showing the extensive timberland holdings of the St. Croix Paper Company. He is engaged at present in making two elaborate maps covering the Penobscot river from Millinocket



THE NEW WINDSOR HOTEL.

to Bangor, showing the topography of the region, together with elevations and also the various manufactures and other interests along the river. These Penobscot river maps will be soon offered for sale and will be of material aid to business men and others interested in the development of this prominent section of Maine. In addition to topographic and hydraulic service Mr. Lisherness makes lumber estimates, designs power developments and makes plans for reenforced concrete buildings and structures.

The Brooks Brick Company, manufacturers of wire-cut and water-struck brick and land tile, Brewer, have had during 1913 the biggest business in their history, their total output of brick having been between five and six million. In their original yard, formerly the property of Hugh O'Brien, they have made three and one-half million brick, and in the adjoining yard of Patrick O'Brien, which has recently been acquired by the Brooks Brick Company, they have made a million and a half. They have also had made in the John McDonald yard on Chamberlain street about a million. These brick have gone into many of Bangor's business blocks during the past year and shipments have also been made over a wide section.

The Colonial Apartments, Union and High Streets, Bangor, have been purchased by the Graham Realty Company and will henceforth be conducted under the name of The Colonial. Many and important improvements are under consideration. T. Walter Packard, the popular manager, is expected to continue with the Colonial.

AMONG THE BANGOR CONTRACTORS

Atkins Bros. Co., Bangor painters, with headquarters on Columbia street, have had an exceptionally busy season. Among the contracts in hand is that of painting the new building of the Chas. Stetson Estate on Central Street. The notable buildings painted by them since the big fire include the Graham and Sterns buildings. They have employed about thirty hands throughout the season.

C. H. Babb & Company have had an exceedingly busy season. They did all the plumbing for Bangor's high school and also for the library, the high school keeping a plumbing crew busy for nearly a year, while the library required about six months. They did the plumbing and also supplied the heating outfit for the new All Souls Congregational Church and have supplied the heating apparatus for the new building of the Charles Stetson Estate on Central street and in this case heat will be supplied not only to the new block but also to various stores in the Strickland and Smith blocks on Hammond street, both of these blocks being the property of the Charles Stetson Estate. They also did the plumbing for the extensive office building erected by the



WOODWARD BUILDING.

Great Northern Paper Company at Millinocket and the plumbing for the commodious home erected for one of the Great Northern Paper Company's superintendents at East Millinocket. They have also done a large amount of plumbing and heating in connection with Bangor dwellings.

The Bangor Brick & Construction Company, successors to the Bangor Brick Company, have made during 1913 about 2,000,000 brick in their yard at the corner of Fourth and Parker streets in this city. An average of about twenty men have been employed and water struck brick have been manufactured. In addition to supplying large quantities of brick for Bangor building operations, they have furnished the Maine Central Railroad with a considerable quantity and likewise have made extensive shipments up country, among the Aroostook buildings in which their brick have been used being the new schoolhouse at Fort Fairfield. Preparations are being made for an active season at their Bangor yard during 1914, and it is probable that a larger quantity of brick will be made by them than during 1913. The Bangor Brick & Construction Company, in addition to being manufacturers of water struck brick, supply fire brick, fire clay and flue lining and are also general contractors. They have the construction of the new workingmen's hotel at the corner of Hancock and York streets and commenced work on the same October 13. The concrete foundation is now practically completed and work on the superstructure will commence actively with the opening of

spring. H. W. Keirstead is the energetic and capable manager of the Bangor Brick & Construction Company.

John T. Carter has built during the past season two dwellings in Bangor and one in Brewer. Mr. Carter has also extensively remodeled for the One Hundred Associates a three-story building at the corner of York and Oak streets. Mr. Carter will establish in this building his contracting headquarters and will have a



CENTER STREET BUILDING.

commodious woodworking shop. There will also be two stores in the remodeled building. In addition to the new work, Mr. Carter has done during the past year a large amount of repairs.

Leslie W. Cutter completed early in the season the colonial home of Nathaniel Lord at the corner of Montgomery street and Kenduskeag Avenue. The new brick block erected by Mr. Cutter since the fire has proved admirably adapted for his large and steadily expanding wood-working business. The plant is run to its full capacity and has supplied building material for many



C. STETSON ESTATE BUILDING ON STATE STREET.

of the new buildings erected in Bangor and Brewer during the past season. Mr. Cutter has kept numerous carpenters busy throughout 1913 on repair work, and in his shop and outside has employed about twenty men.

The Fred E. Eldridge Company have enjoyed the busiest season in their career. The contracts during 1913 have included

the painting of the Bangor high school and the Bangor public library. These two splendid edifices have kept a large crew of painters busy for an extended period of time and the Eldridge Company are receiving commendation on every hand for the excellence of their work. In addition to a multiplicity of other painting jobs, they did the glazing for the Eastern Trust and Banking Company's new building, this involving a large amount



BANGOR MOTOR COMPANY'S GARAGE.

of glass. In the line of plateglass, the Eldridge Company have set in Bangor, since the fire, a very large amount.

William E. Fish, mason and general concrete contractor, has had a busy season. He has done a large amount of mason work and general repairing in Bangor and vicinity. He did the mason work on the new home of Henry Prentiss now building on State street and built the concrete approach to the highway bridge between Brewer and Bangor. He erected two brick buildings in Milo for the Boston Excelsior Company, one of these being a power house and the other for an electric plant. Both of these buildings are of brick. Mr. Fish runs for nine months in the year his brick and concrete block plant at 392 Broadway, and during the season he has made from 13,000 to 14,000 blocks, while in 1912 he made 17,000 and in 1911, 15,000. He also manufactures extensively cement brick in all colors, and made during 1913 from 75,000 to 100,000. Mr. Fish has a commodious office in the building erected last year on Center street by George B. Foster.

W. H. Gorham and Company are extensive painters, and among the blocks decorated by them have been the Eastern Trust & Banking Company's new block, the two blocks of the Bangor Real Estate Company and the Clark block, all of these being on State street. They have likewise done a large amount of painting in the residence section, while as art dealers and decorators their store on State street in the new building of the Charles Stetson Estate is one of the finest in Eastern Maine.

John McEwen, general contractor and builder, has had a busy season. He has built the Star theatre for Pope D. McKinnon at the corner of State and Park streets, and this mammoth structure consumed 100,000 brick and 1200 yards of cement. Mr. McEwen also rebuilt for John Cassidy the building at the corner of Broad and Independent streets damaged in the conflagration in the spring of 1911. The Cassidy block has been thoroughly built over and is a great improvement over the building which it replaced, having slated walls and a roof of gravel. Mr. McEwen has also done considerable repair work.

Murray Brothers Company, general contractors and wholesale grocers, find their new concrete and glass headquarters erected last year on Front street admirably adapted for their purpose. They handle coal for the Canadian Pacific Railway, and during the past season they distributed between Megantic

and New Brunswick about 60,000 tons. They have been prominently identified with railway construction but as not much railroad building is now going on in Maine, they intend to give prominent attention to state highway work, and with their wide experience and admirable equipment they are qualified to achieve distinct success along these lines. Murray Brothers Company are extensive importers and exporters of Italian and American products and have branch stores at Woodstock, N. B., Brownville Junction and Perry in Maine. The Perry store has only recently been acquired by purchase and was formerly conducted by J. C. & H. L. Gove. They also have from sixteen to twenty-seven supply stores at various stations along the Canadian Pacific Railway in Maine and New Brunswick. Their Bangor store is universally conceded to be the best of its kind east of Boston.

The Otto Nelson Company, with headquarters at the Sterns building in Bangor, are general contractors for architectural and engineering construction and have done work all over the state from Fort Kent on the north to York County in the west. In the line of Bangor work they have built this season, on Franklin street, a small building of brick and concrete for the Graham Realty Company, the new building being located between the two buildings of similar construction reared by the same company last year. The Nelson Company have now practically completed the new terra cotta block for C. S. Jones on Pickering Square and they have also built the foundation for a handsome residence to be erected the coming season by W. L. Sawtelle on Bellevue Avenue. The largest contract this season by the Nelson Company is that of a mammoth sewer in Biddeford, the amount of the contract being in the vicinity of \$70,000. The sewer has a total length of one and one-fourth miles and is entirely of concrete and a large portion of it is four feet wide and six feet high, and egg-shaped, the construction being now about 60 per cent done. Another contract in hand is that of the three-story brick dormitory, to be erected in conjunction with the normal school at Machias from plans made Gibbs & Pulsifer, architects of Lewiston, and the total cost to be in the vicinity of \$30,000. A new contract recently secured by them is for two big sun parlors at the Augusta State Hospital, one each on the Harlow and Sanborn wings. These sun parlors will be 13 by



S. L. CROSBY COMPANY'S GARAGE.

112 feet in size and will each be two stories. The Nelson Company in April completed an extensive contract at the Eastern Maine Conference Seminary at Bucksport including the remodeling of the dormitory and the construction of a three-story school building.

James F. Spellman & Sons in the contract line have been busy through the season along the river and bay engaged largely in the

construction of new wharves and repairing old ones. This month they have had a crew at South Bluehill building a new wharf for the Eastern Steamship Corporation.

George H. Wilbur & Son, the widely-known contractors, have in the past few years rapidly assumed a foremost place among Northern New England contracting firms. The headquarters of the firm are in Old Town, but since Bangor's conflagration they have had an office in this city and have taken a conspicuous part in the great undertaking of rebuilding Bangor. During the present season they have completed Bangor high school and the Bangor public library and these two splendid municipal edifices are monuments of which they may well be proud. Their contracts in Bangor this season included the six-story building of the Bangor Real Estate Company at the corner of State and Exchange streets, and the building of the Charles Stetson Estate on Central street. The high school and library are finished and the Exchange building is now almost completed while the Stetson building will be ready for occupancy in the spring. This firm also has a large contract on a new building at the University of Maine. George H. Wilbur, the senior member of the firm, has

connection with the University of Maine had been business manager of the University publication and had a business training that has been very helpful to him. Mr. Sutton is a grandson of the late A. B. Sutton of Stillwater and possessed a familiarity with lumber.

The young men engaged in business with the determination to achieve success and the record they have made is a thoroughly creditable one. They early made a specialty of laths and long lumber, and their sales of laths have increased from four million during their first year to twenty million in 1913. They have also added southern flooring made specially for them and likewise handle largely Eastern lumber. They carry in stock at all times many cars of shingles. Their yards are on Albany street, Boston, and West street, Everett, Mass. Among recent large purchases made by them has been the entire lumber in stock at the Chandler mill in North Lincoln. During the first business year the total sales aggregated \$50,000, and this has steadily expanded, the record for 1913 being a quarter of a million dollars. Joe W. Gerrity passed Christmas at the home of his father in this city and leaves soon for Grand Rapids, Michigan, where he is to



REMODELED CLUB HOUSE OF THE CONDESKEAG CANOE AND COUNTRY CLUB.

had an experience of nearly twenty years as a contractor and his capable son, Leslie C. Wilbur, has been a member of the firm since 1906. Much of the time during the past year the firm has had upwards of two hundred men in their employ. The senior partner is soon to build a handsome residence in his home city of Old Town.

J. F. GERRITY COMPANY.

Two Maine Young Men Who Have Made Good in the New England Metropolis.

In the summer of 1909 the J. F. Gerrity Company was incorporated under the laws of Maine, the officers being: president, James F. Gerrity; treasurer, Joe W. Gerrity; and secretary, Harry E. Sutton. The new company was organized to conduct the lumber business with offices both in Bangor and in Boston. Messrs. Joe W. Gerrity and Harry E. Sutton graduated from the University of Maine in the class of 1909, and shortly after leaving their alma mater they became actively identified with the J. F. Gerrity Company, their headquarters being in Boston. Joe W. Gerrity is a son of James F. Gerrity of Bangor, and during his

be joined in wedlock to Miss Margaret McKee, a graduate of Vassar College, class of 1913 and a daughter of Mr. S. W. McKee, who in earlier years was identified with the lumber business. Miss McKee is an accomplished young lady and actively identified with athletic sports, and Mr. Gerrity has been the recipient of congratulations from myriad friends on his good fortune.

J. F. Gerrity, President of the company, makes his home in Bangor. He has long been identified with the interests of the city coming here from Boston as a young man and making his success in the several enterprises that he has engaged in. He has been established in the art supply business since 1881 having a beautiful art store on Central Street besides being interested in real estate and other enterprises.

THE JOURNAL is indebted to Colonel J. J. Pooler, the successful proprietor of Portland's favorite hostelry, the New Falmouth Hotel, for a handsome menu card describing the sumptuous dinner provided his guests on Thanksgiving Day.

Fred K. Allen, formerly of the Bay View House, Camden, has purchased the Phoenix House in Belfast and that hostelry will be run under his management.

Maine Building Notes

E. F. Gowen has completed his new theatre in Springvale, and it has been opened to the public. It is especially designed for a picture house and vaudeville with accommodations for eight hundred people.

Charles V. Dodge of Seattle, Washington, has been on a visit to Skowhegan in connection with the destruction of his block on Madison Avenue by fire. Mr. Dodge has decided to rebuild upon the former location, and the new structure will be of brick but it is not definitely decided how soon work will commence.

The W. H. Glover Company of Rockland has secured two large contracts for summer cottages at Dark Harbor, Islesboro. One of these will be for A. J. Drexel Paul, a Philadelphia banker, and will cost about \$50,000. The other is for Frederick R. Kellogg a New York lawyer. Both of these summer residences are to be ready for occupancy in June.

Within a few weeks a business arcade is to be established in Portland, in the building formerly occupied by the Northeastern

Since Rev. F. A. Le Geunee took charge of the parish, which now numbers close to 1800 members, the idea of a convent has been growing. The parish has been able to purchase of the Jewell heirs the large lot north of the Catholic church, St. Rose de Lima, and the convent seems assured.

FISH AND GAME NOTES

Alonzo Bacon, employed in the government fish hatchery at Grand Lake Stream, was recently mistaken for a deer and killed. Bacon was working by himself in a stream near Dobbs Lake stripping fish when he was shot. The victim of the accident was a registered guide and leaves a wife and several children.

A real bull moose was seen in the highway near the home of Charles Rackley of Topsham in October. William Noyes heard of the direction which the animal had gone, mounted his bicycle and armed with a kodak, started in pursuit. He got within 30 feet of the big fellow when the latter turned his head and Noyes made the picture. The animal after having "looked pleasant please" continued on his journey.

Boothbay Register:—J. W. Dearborn is a great fisherman farmer, as well as hunter. He caught a large hake the other night off Damariscotta Island that had an ear of green corn five



STEEL BRIDGE ACROSS THE PENOBSCOT BETWEEN BANGOR AND BREWER.

Telephone Co. on Casco street. The business arcade is to be on the first floor while the third and fourth floors are to be remodelled into rooms with bath all opening onto a main hallway on each of the floors and connecting with the ground floor by a stairway at the inside front of the building.

That the Catholics of Livermore Falls and Chisholm are to erect a convent, within the next two years, seems now assured.

inches long in him, and he says anyone buying fish of him this fall can be assured they are corn fed. As John is such a hunter, fisherman, etc., Capt. Toothacher of yacht fisherman Lochinvar, vowed he would not be outdone, so he went and caught a big hake having a carrier pigeon in it with a silver band around his leg, number W 43179 within, found by Jake McPhane in splitting the fish. Although these are fish stories, they are facts.

EASTERN MAINE HEADQUARTERS MAXWELL and FORD AUTOMOBILES

Maxwell Touring Cars, \$775, \$1250 and \$2000

Ford Touring Car, \$574

Ford Runabout, \$524

Send for Catalog.

Agents Wanted in unoccupied territory.

THE S. L. CROSBY CO.

126 EXCHANGE ST., BANGOR, ME.

GARAGE, 18 SALEM COURT

WINSLOW & CO., Inc.

SUCCESSORS TO

PORTLAND STONE WARE CO.

MANUFACTURERS OF

**Sewer Pipe
Flue Lining
Fire Brick
and Clay Paper
Mill Specialties**

Distributors for

**The Leading Brands of
PORTLAND CEMENT
LIME, HAIR and
PLASTERS.**

WRITE FOR QUOTATIONS.

P. O. BOX 628, PORTLAND, ME.

FOR SALE**Novelty Wood Turning Plant**

Two Story Brick Mill 128 x 46 feet, one story addition 46 x 30 feet. Automatic sprinklers throughout. Fully equipped to start at once with 26 up to date lathes and all necessary machinery. Five acres of land on R. R. For further information apply to

**Livermore Falls
Trust & Banking Co.**
LIVERMORE FALLS, MAINE

BERRY & SMITH**Sail Makers**

**AWNINGS AND TENTS
A SPECIALTY**

Cor. Broad and Independent Streets
BANGOR, MAINE

Annual Meeting

The annual meeting of the Journal Publishing Company will be held Wednesday, January 14th, 1914, at 2 P. M., at 117 Exchange Street, Bangor, for the election of officers and transaction of any other business that may properly come before said meeting.

E. H. DAKIN, Secretary.

Bangor, Me., Dec. 13th, 1913.

INDUSTRIAL AND AGRICULTURAL OPPORTUNITIES IN THE MAINE NORTHLAND

Mileage
Main Line
625 Miles



Total Mileage
Track
854 Miles

DIRECT ROUTE TO NORTHERN MAINE

FIRST-CLASS EQUIPMENT AND SOLID VESTIBULE TRAINS, PARLOR,
SLEEPING AND DINING CAR SERVICE

Sleeping Cars between Boston and Caribou during the entire year, and sleeping cars between Boston and Greenville during the summer months.

The construction in recent years of the new extensions in the expanding B. & A. Territory has richly added to the already large extent of fertile farm lands, valuable timber areas, forest recreation grounds and picturesque lake and river resort-sections adjacent to this great railroad of the New Northeast.

Industrial opportunities, water powers, timber tracts, mineral resources, hotel locations, sporting or recreation camp sites, and farm lands with unlimited advantages—These are all here in abundance.

The pioneer of the New East, unlike his progenitor of the now Old West, does more than prepare the way for the man who follows him—he gathers the harvest.

Information will be cheerfully given and correspondence with you is invited by the

BANGOR & AROOSTOOK RAILROAD, BANGOR, MAINE

The American Review of Review

Edited by Albert Shaw

*Price
25c.*

*\$3.00
a year*



The Review of Review Company
30 Irving Place, New York



Train Service for BANGOR

In effect Sept. 28, 1913

GOING EAST

OLD TOWN, 3.45, 7.30 a. m., 3.10, 5.30 p. m.
MATTAWAMKEAG, 3.45 and 7.30 a. m.,
3.10 and 5.30 p. m.

ST. STEPHEN, ST. JOHN, WOODSTOCK,
HALIFAX and PROVINCES, 3.45 a. m., 3.10
p. m.

AROOSTOOK CO. via Vanceboro, 3.45 a. m.

GOING WEST

DEXTER, DOVER and FOXCROFT, 7.00
a. m., 12.25 noon and 3.35 p. m.

To GREENVILLE via Newport, 7.00 a. m.,
7.10 p. m.

BELFAST, 7.00 a. m. 1.50 and 3.35 p. m.
Waterville, Augusta, South Gardiner, and way
stations, 10.15 a. m.

BOSTON and PORTLAND, via Waterville and
Augusta, **7.00 a. m., 12.25, **1.50, 3.35, **8.00 p.
m., 12.45 night, and via Waterville and Lewiston,
7.00 a. m., 10.15 a. m., 12.25 noon. The 1.50
p. m. train connects at Portland with night train
for New York.

**Connects at Brunswick for Bath, Lewiston and
Rockland.

SOUTH GARDINER and way, 10.15 a. m.

SUNDAY TRAINS

BOSTON and PORTLAND via Waterville
and Augusta, 7.15 a. m., 1.15, 8.00 p. m.

BUCKSPORT BRANCH

For BUCKSPORT, 7.10, 11.50 a. m., 5.10 p.
m., and Saturday only 6.40 p. m.

MT. DESERT AND CALAIS BRANCHES

For BAR HARBOR, 6.00, 10.30, a. m.,
and 5.15 p. m. Sundays 7.00 a. m. For Washing-
ton County, 6.00 a. m. daily, and 3.10 p. m. daily
except Sunday.

H. D. WALDRON, General Pass'r Agt.

D. C. DOUGLASS, General Manager.
Portland, Maine.

Broadway Central Hotel

Cor. Third Street

IN THE HEART OF NEW YORK

Special attention given to Ladies unescorted

SPECIAL RATES FOR SUMMER

OUR TABLE is the foundation
of our enormous business.

American Plan, \$2.50 upwards

European Plan, \$1.00 upwards

Send for Large Colored Map and Guide of New York
FREE

TILLY HAYNES, Proprietor

DANIEL C. WEBB, Manager

Formerly of Charleston, S. C.

The Only New York Hotel
Featuring American Plan

MODERATE PRICES

EXCELLENT FOOD GOOD SERVICE

Hotels

Maine Hotel Proprietors' Association.

PRESIDENT, WILBUR T. EMERSON, Augusta.

FIRST VICE PRESIDENT, F. L. BLINN, Brun-
swick.

SECRETARY AND TREASURER, E. M. BLAN-
DING, The Industrial Journal, Bangor.

DIRECTORS, W. T. Emerson, Augusta; W. H.
Cook, Waterville; H. A. Chapman, Bangor; N. L.
Jackson, Bath; and J. Stuart Maher, Portland.

C. W. PARKER

L. A. SMITH

New England House

C. W. PARKER & Co., Proprietors

Cor. BLACKSTONE and CLINTON STS.
BOSTON

European Plan

Rooms, 75c and \$1

New DeWitt House

Thoroughly Modern and
Up-to-Date.

GEO. R. PATTEE, Proprietor.

Lewiston, Maine.

The Augusta House

W. T. EMERSON, Mgr.

AUGUSTA, MAINE

FALMOUTH HOTEL

PORTLAND
MAINE

JAMES J. POOLER

PROPRIETOR

King's Tavern

BATH, MAINE.

Newly furnished throughout. Rooms with bath

N. L. JACKSON Prop.

YOU NEED

"Starr's Yankee Trader and Mixer" if you buy,
sell or trade. Size 5-1-2 x 8 inches; 20 to 40
pages of bright ideas and selling schemes every
month. 5,000 live wires now on our mailing
lists. 25c for 3 months' subscription including
printing your 25 word ad. one time free. Trial
copy 5c, 3 months' trial 10c; \$1.00 a year. Send
your adv. and two bits to STARR NOVELTY
AND PRINTING CO., 180 1-2 Cherry St.,
Toledo, O.

JOHN O. RICE AUDIT CO.

CHESTER A. JORDAN, Pres.

Public Accountants

607 Fidelity Bldg.

PORTLAND, ME.

OVER 65 YEARS'
EXPERIENCE

PATENTS

TRADE MARKS
DESIGNS
COPYRIGHTS & C.

Anyone sending a sketch and description may
quickly ascertain our opinion free whether an
invention is probably patentable. Communica-
tions strictly confidential. **HANDBOOK** on Patents
sent free. Oldest agency for securing patents.
Patents taken through Munn & Co. receive
special notice, without charge, in the

Scientific American.

A handsomely illustrated weekly. Largest cir-
culation of any scientific journal. Terms, \$3 a
year; four months, \$1. Sold by all newsdealers.

MUNN & Co. 361 Broadway, New York
Branch Office, 625 F St., Washington, D. C.

The Maine Register

CONTAINS

Complete Business Directories

of 20 Cities and 428 Towns

Full Statistics of all State Interests

A new Township and Railroad Map of Maine
revised to date.
Every OFFICE and HOME needs it for handy
reference.

PRICE, POSTPAID - - \$2.00

GRENVILLE M. DONHAM, Publisher,

390 Congress St., opp. City Building

PORTLAND, MAINE.

FOR SALE

1 150 H. P. Tubular Boiler.....	\$ 300
1 90 H. P. Westinghouse Engine.....	300
1 20 H. P. Upright Engine.....	50
1 Duplex Steam Pump.....	25
1 Chapman Bolter.....	75
1 Chapman Lath Machine.....	150

LAWRENCE LUMBER CO., Jonesboro, Me.

Old Postage Stamps

I desire to purchase accumulations of old postage stamps (not common one and two cent) also Collections. Many attics have them tucked away on old letters. It will pay to hunt them up. Send them on the original envelopes if possible. Highest prices paid. Ref. the editor of this paper.

W. L. WATSON

KENNEBUNK, - - MAINE



Do you know
**The Youth's
Companion**
as it is to-day?

Enlarged, Improved and
Better than ever

More reading than is given
in any American monthly

52 times a year - not 12

**

Send Today for
Sample Copies

FREE TO JAN., 1914

Cut this out and send it with \$2.00 for The Companion for 1914, and we will send FREE all the issues for the remaining weeks of 1913 and The Companion Practical Home Calendar for 1914.

THE YOUTH'S COMPANION
144 Berkeley Street
Boston, Mass.

Subscriptions Received at this Office
See Our Family Combination Offer Elsewhere

SAVE YOUR FLOORS AND CARPETS.

Old-Style casters are being discarded for Glass Sliding Shoes which move noiselessly and harmlessly over polished floors, carpets, rugs, painted floors or linoleum.

Never balk, fall out or go sideways. Always in position to move in any direction; which cannot be said of casters. Made in all sizes for all kinds of furniture up to and including the piano. If interested write or telephone.

BANGOR MATTRESS CO., 120 SECOND ST.

Who manufacture as fine a line of Curled Hair and Cotton Felt Mattresses as are offered in Maine, also Guaranteed Pillows, Woven Wire Mattresses and Cot Beds, and jobbers of Iron Beds and Cribs

We can give you at least 20 per cent better values in goods of our own manufacture than you can obtain by buying goods made out of the state.

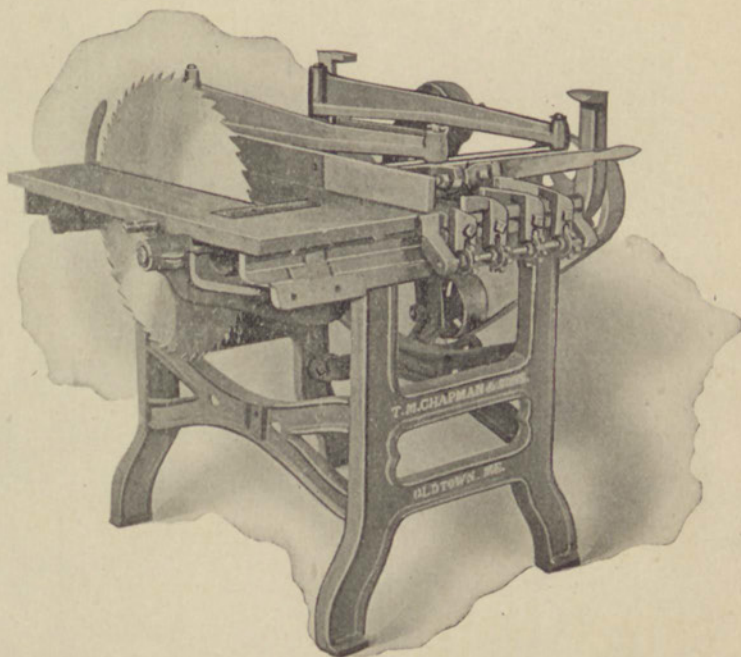
We sell all goods with the privilege of the most rigid inspection and with an absolute guarantee of satisfaction.

Would be pleased to give you references of some of the parties for whom we have done Hair Mattress work.

TELEPHONE 1215-11

Improved Bolter or Birch Stripper

For Making Laths, Pickets, Staves, Spool Stock, Etc.



Showing Our Patent Accurate Stop Gauge

For simplicity and efficiency this machine is unequalled. It has a solid cast iron frame, strong and serviceable. Tables are planed true, and one section may be removed (by means of our improved locking device) to put on or take off the saw. The gauge has full scope across the inside table, is adjustable to any fraction of an inch, and four sizes can be had at one adjusting. Send for full description of this machine. We make Gray Iron and Semi Steel Castings.

T. M. CHAPMAN'S SONS CO.,

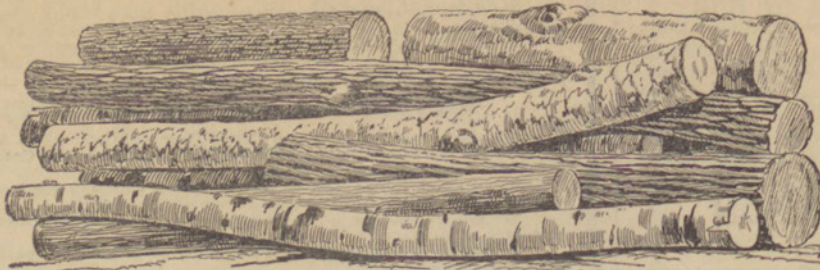
Old Town, Maine

Maine Bureau of Information

Statistics and General Information Furnished Regarding the Industrial, Building, Commercial, Transportation, Resort and Agricultural Development of Maine and the Northeast.

**46 MADISON STREET
BANGOR, MAINE**

ALL LOGS LOOK ALIKE



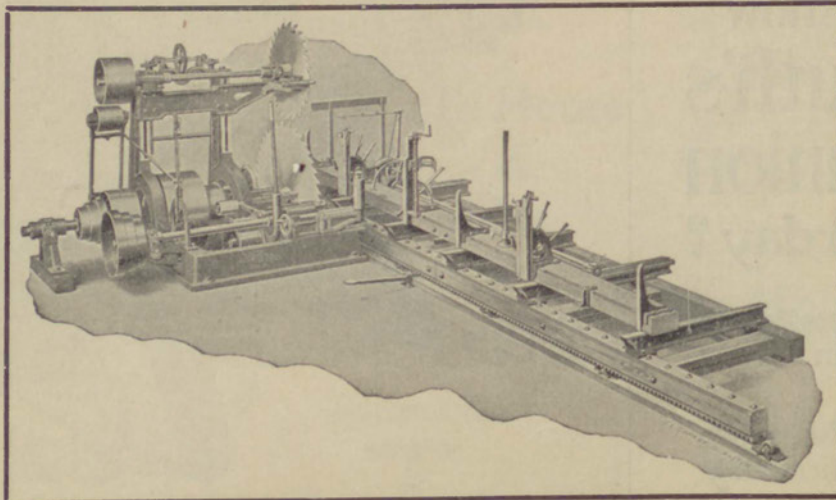
TO LANE SAW MILLS

THE LARGE AND THE SMALL,
THE SHORT AND THE TALL,
THE HARD, THE SOFT AND THE CROOKED.

THE REASON WHY?

BECAUSE:

We build Mills for all classes of work and fit them with Dogging Devices especially adapted to the work to be done. We use only the best of materials and workmanship; our designs have stood the severest tests, and every machine is FULLY GUARANTEED.



This is our No. 2 Double Mill.
It is one of ten sizes and several styles.

**YOU CAN USE THIN SAWS SUCCESSFULLY AND SAW
ABSOLUTELY STRAIGHT AND TRUE IF YOU HAVE A
LANE CIRCULAR MILL.**

**THEY DO MORE WORK THAN OTHER MILLS DO, AT
LESS EXPENSE, AND THEY DO IT MUCH BETTER.**

Send for our Catalog.

LANE MANUFACTURING COMPANY

MONTPELIER, VERMONT, U. S. A.

GOOD, LIVE, RESPONSIBLE MACHINERY DEALERS WANTED TO REPRESENT US IN SECTIONS NOT ALREADY COVERED