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PERSONAL.

Mr. Perry F. Brown has resigned the position of City Engineer of Janesville, Wis.

Mr. George C. Earl has been elected Sewerage and Water Engineer of New Orleans, La.

Mr. Robert Miller, Superintendent of Motive Power of the Michigan Central R. R., has tendered his resignation.

Mr. John H. Harris has been appointed General Superintendent of the Choctaw, Oklahoma & Gulf Ry., with office at Little Rock, Ark.

Mr. Charles A. Ingersoll, of Buffalo, N. Y., has been appointed to a position on the engineering corps of the Nicaragua Canal Commission.

Mr. George Burnham, Jr., of Philadelphia, Pa., will leave shortly for Russia to take charge of the St. Petersburg office of the Baldwin Locomotive Works.

Mr. Carlton E. Davis, of Madison, Me., has been appointed Resident Engineer for the construction of a 600,000-gallon storage reservoir at Cedar Grove, N. J.

Lieutenant Herron and his party, who were exploring the Copper River country in Alaska, and who were supposed to have been lost, are reported safe at Fort Gibbon, Alaska.

Captain C. K. Morehead, Assistant-Engineer in the Bureau of Surveys, of Philadelphia, Pa., has resigned his position. He will be succeeded temporarily by Mr. Charles H. Ott.

Mr. Michael J. Dady, of New York city, has gone to Havana, Cuba, to meet the City Council and arrange for a hearing before Governor-General Wood in regard to a large sewer contract.

Major-General Francis V. Greene, U. S. V., has resigned the presidency of the Barber Asphalt Paving Co., of New York city. General Avery D. Andrews, formerly Adjutant-General of New York, succeeds him.

Mr. F. W. Deibert has been appointed Assistant Mechanical Superintendent of Lines West of the Ohio River of the Baltimore & Ohio R. R., with office at Newark, Ohio, vice Mr. I. N. Kalbaugh, assigned to other duties.

Mr. W. C. Berg, at present Engineer of Maintenance of Way, has been appointed Chief Engineer of the Lehigh Valley R. R., with headquarters at Bethlehem, Pa. He will be succeeded in his present position by Mr. E. B. Ashby.

Mr. W. Archer has been appointed Principal Assistant Engineer of the Baltimore of Ohio Southwestern Ry., with headquarters at Cincinnati, O. Mr. J. C. Bloom has been appointed Division Engineer, with headquarters at Chillicothe, Ohio.

Professor R. W. Wood, of the University of Wisconsin, has gone to England, where, at the invitation of the Physical Society of London and the Society of Arts and Sciences, he will deliver an address on color photography and the photographing of sound waves. In our issue of Feb. 1 it was erroneously stated that Prof. Wood was of the University of Illinois.

OBITUARY.

Mr. George T. Barnes died on Jan. 30 at Philadelphia, Pa. He was an importer of pig iron and a member of the Executive Committee and Board of Directors of the American Pig Iron Warrant Storage Co.

Mr. Hubert C. Ward, Civil Engineer, died recently in Chicago, Ill. Mr. Ward was born in Farmington, Conn. He was Chief Engineer in the construction of the Northern Pacific R. R. through the Rocky Mountains.

Major-General William W. Averill died on Feb. 3 at his home in Bath, N. Y. Gen. Averill was a prominent cavalry leader in the Civil War. After the war he engaged in business, becoming president of the Barber Asphalt Paving Co.

Mr. O. J. Shepard died recently at Carbondale, Pa. He built the well-known "Shepard's Crook" on the Delaware & Hudson Gravity Ry., between Carbondale and Honesdale, Pa. It is a rather remarkable coincidence that this road was abandoned almost on the same day that Mr. Shepard died.

Major Albert Kimberly Fulton died Jan. 13 at the Maryland University Hospital at Baltimore, Md. Major Fulton early chose engineering as a profession. At the beginning of the Civil War he entered the Navy, and for three years was engineer on Admiral Farragut's flagship, the "Hartford." In later years he devoted himself to music and the stage.

Mr. Joseph P. Mullin, M. Am. Soc. M. E., died on Jan. 29, at his home in Arlington, N. J. Mr. Mullin was born in Watertown, Canada, in 1854. He has written several works on engineering subjects. In 1896 he was elected to the New York Assembly.

George H. Norman, M. Am. Soc. C. E., died at Palm Beach, Fla., on Feb. 3, from paralysis. Mr. Norman made his business and professional start in life by erecting a gas plant in Cuba, in 1855. On his return to the United States he constructed a large number of water-works in New England towns, and having accumulated a large fortune, he settled in Newport, R. I., where he has long resided. He was the head of the banking house of George H. Norman & Co., of Boston. He founded the Norman Prize of the American Society of Civil Engineers.

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

AMERICAN PAPER AND PULP ASSOCIATION. Feb. 14-15. Annual meeting at New York city. Secy., C. W. Rantout, 101 Times Building, New York city.

AMERICAN INSTITUTE OF MINING ENGINEERS. Feb. 20. Annual meeting at Washington, D. C. Secy., R. W. Rimond, 90 John St., New York city.

ASSOCIATION OF ONTARIO LAND SURVEYORS. Feb. 27 to Mar. 1. Annual meeting at Toronto, Can. Secy., A. J. Van Nostrand, Yonge St. Arcade, Toronto, Can.

INTERNATIONAL MINING CONGRESS. June 19 to 23. Annual meeting at Milwaukee, Wis. Secy., Irwin Mahan, Sentinel Building, Milwaukee, Wis.

COMING LOCAL MEETINGS.

LOUISIANA ENGINEERING SOCIETY. Feb. 12. At New Orleans, La. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

CIVIL ENGINEERS' CLUB OF CLEVELAND. Feb. 13. Secy., W. H. Searles, Case Library Bldg., Cleveland, O.

DENVER SOCIETY OF CIVIL ENGINEERS. Feb. 13. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

NEW ENGLAND RAILROAD CLUB. Feb. 13. At Boston. Secy., Edw. L. Jones, P. O. Box 1158 Boston, Mass.

NORTHWEST RAILWAY CLUB. Feb. 13. At Minneapolis. Secy., T. A. Fogue, Soo Line, Minneapolis, Minn.

ENGINEERS' CLUB OF COLUMBUS. Feb. 17. Secy., H. M. Gates, 12 1/2 North High St., Columbus, O.

ENGINEERS' CLUB OF PHILADELPHIA. Feb. 17. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

PACIFIC COAST RAILWAY CLUB. Feb. 17. At San Francisco, Cal. Secy., E. A. Gilbert, West Oakland, Cal.

MONTANA SOCIETY OF CIVIL ENGINEERS. Feb. 17. At Helena. Secy., Albert S. Hovey, Helena, Mont.

ENGINEERS' CLUB OF CINCINNATI. Feb. 20. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA. Feb. 20. At Pittsburgh. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburgh, Pa.

NEW YORK RAILROAD CLUB. Feb. 20. At New York city. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

WESTERN RAILWAY CLUB. Feb. 20. At Chicago. Secy., J. W. Taylor, 667 The Rookery, Chicago, Ill.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.—At the Junior meeting held Feb. 6, Mr. W. W. Bird, Treasurer of the Broadway Iron Foundry Co., presented a paper on "The Uses and Relative Values of Steel, Gun and Gray Iron Castings," illustrating his remarks with lantern slides.

TECHNICAL SOCIETY OF THE PACIFIC COAST.—At the annual meeting, held at San Francisco, Cal., Jan. 19, the following officers were elected for 1900. President, C. W. Percy; Vice-President, Louis Fukenau; Secretary, Otto von Geldern; Treasurer, E. T. Schild; Directors, Herman Barth, T. W. Brooks, A. E. Chodzko, E. F. Haas, S. C. Irving. Otto von Geldern, Secy.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION.—The first annual meeting of the association will be held in Chicago, March 14 and 15. The business before this meeting will be the annual election of officers, the address of the president, and the consideration of the preliminary reports of the chairmen of the 15 standing committees. It is expected that the chairmen of these committees will present a short paper on the subject matter given each committee for its consideration, outlining the scope and future program of the committee work. These papers will be generally discussed by the members. The association has a charter membership of 235 members, representing 140,000 miles of railroad in the United States, Canada and Mexico, and embracing 104 different railroad corporations. L. C. Fritch, Secy.

THE IOWA ENGINEERING SOCIETY.—The 12th annual meeting of the society was held at Des Moines, Ia., Jan. 17 to 20. The following papers were read and discussed: The "President's Address," dealing in part with special assessments, by Prof. Chas. S. Magowan, Iowa State University, Iowa City, Ia.; "Railway Location in the Prairie States," Lowell H. Stone, Des Moines, Ia.; "A Problem in Land Surveying," Seth Dean, Glenwood, Ia.; "Fan Heating and Ventilation," L. Higgins, Des Moines, Ia.; "Sewage Disposal Plant and Investigations at the Iowa State College," Prof. Anson Marston, Ames, Ia.; "Public Land Surveys of the United States Compared with Other Systems," C. R. Allen, Ottumwa, Ia. A great deal of interest was manifested in the discussion of the sewage disposal plant, as described by Prof. Marston. This plant is the first of the kind in Iowa, and will mark an era in the work in this section of the country. Profs. Weems and Pammel assisted Prof. Marston in the investigation

and contributed to the descriptive paper. The Committee on "Good Roads" made a report containing many useful data gathered from different parts of the state. Chas. P. Chase, of Clinton, Ia., was chairman of the committee. The Committee on "Paving Brick Tests" reported progress, and the committee was continued. The officers elected for the year 1900 are as follows: President, Prof. Anson Marston, Ames, Ia.; Vice-President, Lowell H. Stone, Des Moines, Ia.; Secretary and Treasurer, Lafayette Higgins, Des Moines, Ia.; Directors, C. R. Allen, Ottumwa, Ia.; Seth Dean, Glenwood, Ia. All business communications to the society, for the year 1900, should be addressed to the office of the society, Des Moines, Ia., 570 Good Block. L. Higgins, Secy.

NEW YORK ELECTRICAL SOCIETY.—At the meeting held Feb. 6, Prof. F. B. Crocker, of Columbia University, delivered an address, illustrated by lantern slides, on "Observations on Electrical Matters in the Far East, China, Japan, Manila and India." He described the progress in electrical matters made in those eastern countries, and said there was a wide market for American machinery in the Orient. He related an interesting fact in regard to the government telegraph service of Japan. Telegrams which are the equivalent of ten-word messages here may be sent to any part of the empire, sometimes to a distance of 700 miles, for a charge equal to about 10 cts. Messages of the same length are sent short distances for a charge sometimes as low as 2 1/2 cts. In spite of these exceptionally low rates, the Japanese government makes a profit of 33% of the total receipts.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—After their 14th annual business meeting in Montreal, on Jan. 31, 60 members of the society, headed by their president, Prof. Henry T. Bovey, and their secretary, Prof. C. H. McLeod, went to Boston, Mass., this being the excursion forming a part of their annual meeting. They arrived at the union station shortly after 8 a. m. on Thursday, Feb. 1, and were there met by a committee of the Boston Society of Civil Engineers and escorted to their headquarters at the Hotel Brunswick. With the exception of their annual dinner, which was held at the Brunswick on Friday evening, Feb. 2, they were, in effect, the guests of the Boston Society of Civil Engineers, who had charged themselves with the entertainment of their Canadian brethren during their entire stay.

The following is an outline of the program of excursions and entertainments arranged by the Boston Society of Civil Engineers, which was carried out: Thursday morning, Feb. 1, was devoted to a general welcome of the visitors at the Hotel Brunswick and to a visit to the Massachusetts Institute of Technology. In the afternoon the South Terminal Station was visited. In the evening Mr. F. P. Stearns, Chief Engineer of the Metropolitan Water-Works, described those works, with the aid of lantern slides, at the rooms of the Boston Society of Civil Engineers. On Friday, Feb. 2, the party visited the works of the New England Gas & Coke Co., at Everett, lunch being served at the works. After lunch, portions of the Boston Elevated Ry., now under construction, were visited, and then the party went to the Chestnut Hill reservoir and pumping station. The afternoon was closed by a visit to the Brookline municipal bath. On Saturday, Feb. 3, Harvard University was visited, and some of the party went to the sewage filter beds at Brockton. Mr. Leonard Metcalf, Secretary of the Excursion Committee of the Boston Society of Civil Engineers, had general charge of the excursions.

At Harvard, the party was welcomed by President Eliot, and given a luncheon at Memorial Hall, after which brief remarks were made by Prof. I. N. Hollis, President Eliot and Prof. H. T. Bovey, President of the Canadian Society of Civil Engineers.

At their banquet at Hotel Brunswick on Friday evening, Feb. 2, the Canadian Society of Civil Engineers had as their guests about 25 of the members of the Boston Society of Civil Engineers, and a most enjoyable evening was spent. The various speakers were very happily introduced by President Bovey. Brief remarks were made by Messrs. Desmond Fitzgerald, Ira N. Hollis, Gaetano Lanza, Frederic P. Stearns, C. Frank Allen, Howard A. Carson, George F. Swain, Leonard Metcalf and George H. Francis, of the Boston Society of Civil Engineers; Mr. L. J. Hirt, Chief Engineer of the New England Gas & Coke Co., and Messrs. C. H. Rust, John Kennedy, C. E. W. Dodwell, C. H. McLeod, C. Baillairgé and F. H. White, of the Canadian Society of Civil Engineers. There were also a number of songs and a recitation.

The general tone of the addresses was, on the part of the Canadians, an expression of the pleasure their visit to Boston and their treatment by the Boston Society of Civil Engineers had given them, as well as an intense patriotism called out by mention of the South African war, and patriotic songs were frequent. The Bostonians, on their part, expressed their gratification at the opportunity to have the Canadians as their guests, and there was, further, a general expression of brotherhood with the Canadians and sympathy with the British in the Boer war. Prof. Hollis (formerly U. S. N.) said he watched the papers with nearly the same feelings as 18 months ago, during our own Spanish war.

The party returned to Montreal by the night train on Saturday, Feb. 3.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—In the January "Contemporary Review," Joseph Pennell writes on recent improvements in bicycles. He condemns the "free wheel," which is the present fad abroad, and predicts for it a very brief season of popularity. The South African struggle is dis-

ussed from the military point of view by one writer, and from its political aspect by two others, of whom one alleges that the war was brought about by a few Jew holders of Rand gold mining stocks, and the other declares that it is being prosecuted to establish liberty for all South Africans in the best sense. The "Nineteenth Century" and the "Fortnightly" also devote large space to South African matters, and the former has a couple of articles in which the necessities of a reorganization of the British army and militia system are fully discussed.

In the February "Atlantic," Mr. Herbert Putnam writes on "The Library of Congress," and makes some interesting revelations regarding the lack of completeness in that huge collection of books. Mr. Clement L. Smith discusses "The American College in the Twentieth Century," and concludes that the college course of the future is likely to be three years instead of four years long.

"Scribner's" for February has a paper by Mr. Herbert Laws Webb, on "The Problems of a Pacific Cable," in which the history of the many different schemes for laying a cable across the Pacific are summarized. Mr. Webb estimates the cost of a duplicate cable from the United States to Honolulu and thence to Japan, Manila and Australia, at \$26,000,000. He thinks that the prospect of financial return is too uncertain to cause any private company to lay a transpacific cable unless aided by a government subsidy in some form. With regard to mechanical and electrical features, Mr. Webb assures us that no difficulty whatever exists, and as factories are in existence capable of manufacturing submarine cable at the rate of 20 to 50 miles per day, the cable can be made and laid in two or three years from the time work is undertaken.

In "The Forum" for February we find a graphic account of the rise and fall of the Mahdi, or the relapse into barbarism of the great Soudan region and its recent reclamation to civilization by Lord Kitchener's genius and energy. Few Americans appreciate the importance and significance of the events which have gone on in Egypt's equatorial provinces during the past three years, and this summary of recent history there is a valuable one.

"Appleton's Popular Science Monthly," for February opens with a paper entitled "South Sea Bubble in Science," by Prof. John Townbridge. It is an interesting review of recent "fakes" in the field of invention. He discusses the question what methods can be applied to expose frauds and delusions and concludes:

Until scientific education becomes more general, it is important that there should be some scientific oracle of Delphos, and I cannot think of any better than a well-conducted scientific journal, the editor of which will seek for the best information on scientific questions which interest the financial world.

But such a journal reaches intelligent people, and not the class from whom the "gold from sea water" and "electric sugar" swindlers draw their victims. In the same magazine Prof. Chas. E. Munroe describes in a popular way the applications of explosives, and Prof. Angelo Hellprin summarizes a year's progress in the Klondike. Prof. Joseph Le Conte tells of the development of the science of geology and explains the present views held by geologists respecting the origin and development of oceans, continents and mountains.

Asiatic matters play a large part in the "Harper's for February." Russia's advance in central Asia is the subject of a paper by Mr. Archibald Colquhoun. Mr. Julian Ralph continues his sketches of travel in India and Poultony Bigelow describes "The White Man's Rule in Singapore." Still another article of a similar sort is "The Congo State and Central African Problems," by Mr. Demetrius C. Boulger. In the same magazine we find a paper entitled "The Railroad and the People; A New Educational Policy in the West." The writer describes the work which the railway companies are doing in fostering agricultural and manufacturing development along their lines.

"The North American Review" for February gives up the bulk of its space to the discussion of South African matters. No less than half a dozen writers give their views of the struggle, its causes and probable results from one aspect or the other. Cuban and Philippine questions are discussed by two officers of the American army. Gen. Anderson and Major Runcle and Mr. Edward Atkinson discuss the question what our commerce with the Orient is or may be worth.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS. Table with columns: Bids to be opened, Work, Place, See Eng. News.

Table listing construction contracts with columns: Date, Location, Description, Date.

RAILWAYS.

ALABAMA & FLORIDA.—R. Montfort, Ch. Engr., Louisville, Ky., informs us that the contract for an extension of this line from Andalusia to Geneva, about 45 miles, has been let to the Alabama Construction Co.

line are in operation, and that it is probable that five miles of spurs will be built this spring. The road does not connect with any towns. Walter S. Taylor, Pres.

BELLINGHAM BAY & BRITISH COLUMBIA.—This company is reported to have filed amended articles of incorporation to extend its line from Sumas station 29 miles in southeasterly and easterly directions. J. J. Donovan, Ch. Engr., New Whatcom, Wash.

BRADFORD CENTRAL.—It is reported that this company will begin the construction of its line this spring. The road will connect with the Buffalo & Susquehanna, at Ansonia, on the west, and with the extension of the Barclay Railroad, at Canton, on the east. Geo. N. Adams, Pres., New York.

CANADIAN PACIFIC.—P. A. Peterson, Ch. Engr., Montreal, Que., writes that the matter of constructing a new line to Vancouver, via New Westminster, is in abeyance. It is reported that a line will be built from Mordecai to Carmen, B. C., and another from Hartney to Rossseville, B. C., a distance of about 75 miles.

CENTRAL NAVIGATION & CONSTRUCTION.—John Mackenzie, Secy., The Dalles, Ore., writes us that all right of way has been obtained, and the capital secured, for constructing the railway from the north bank of the Columbia River from Columbus to Big Eddy, opposite The Dalles, about 15 miles. The contract has been let to Winters & Chapman, Spokane, Wash., who have begun work. The road is a portage railway to connect navigation on the upper Columbia River with navigation on the lower Columbia, overcoming the obstruction known as The Dalles of the Columbia. W. J. Harris, Pres., Spokane, Wash.; Paul F. Mohr, Ch. Engr., The Dalles, Ore.

CHEAT RIVER.—Reports state that this company will complete the grading of its line this spring. The company has a right of way for 76 miles of railroad running from Point Marion, Pa., on the Fairmont division of the Baltimore & Ohio, to Parsons, W. Va., on the West Virginia Central & Pittsburgh. The road will follow the valley of the Cheat River and its tributaries throughout its entire length, passing through Preston county and into Tucker county, West Virginia, Pennsylvania and West Virginia charters have been secured. J. M. Guffey, Pres.

CHICAGO & ALTON.—This company is said to have begun the survey of an extension of the Quincy, Carrollton & St. Louis road, recently purchased, from Barnett, eastward, to intersect with the Illinois Central. H. C. Draper, Ch. Engr., Chicago, Ill.

CHICAGO, ROCK ISLAND & PACIFIC.—It is announced that this company proposes to extend the Des Moines and Rutven division 15 miles, giving the line a complete service to St. Paul. N. E. Dauchy, Ch. Engr., Chicago, Ill.

CHOCTAW, OKLAHOMA & GULF.—An extension of this line is reported to have been planned by the system comprising this company and the Choctaw & Memphis road. The extension has been surveyed 180 miles west from Weatherford to Amarillo, Tex., where it will connect with the Fort Worth & Denver and the Pecos Valley lines. F. A. Molitor, Ch. Engr., Little Rock, Ark.

COAL & IRON.—C. H. Latrobe, Ch. Engr., St. Merchants' Bank Bldg., Baltimore, Md., wrote us Jan. 11 that the contract for constructing two tunnels on this line were let on Jan. 13, and that other work would be contracted for this spring. The line will be 43 miles long, extending from Elkins W. Va., to the forks of the Greenbrier River. H. Q. Davis, Pres., 1725 1/2 St., N. W., Washington, D. C. (See issue of Jan. 11.)

COLORADO & SOUTHERN.—H. W. Cowan, Ch. Engr., Denver, Colo., informs us that the surveys and the obtaining of rights of way is practically complete, and that the capital for the extension from South Platte to Gripple Creek, 100 miles, has been secured, for which contracts will be let about April 1. Frank Trumbull, Pres., Denver, Colo. (We noted further information in these columns on Jan. 11.)

COPPER RANGE.—It is reported that an extension of this company's line from Houghton to Calumet, Minn., by way of Dollar Bay and Lake Linden, is proposed. Bonds will be issued for the construction, at \$20,000 per mile. Thomas Appleton, Ch. Engr., Houghton, Mich.

EASTERN NEBRASKA & GULF.—Reports state that W. C. McNamara, Pres., Sioux City, Ia., proposes to build this line, which owns a complete survey from Sioux City to Omaha, Neb. The survey is 97 miles in length. J. B. Keeffe, Sioux City, and F. W. Kimball, Austin, Minn.

ENSLEY SOUTHERN.—It is reported that this company is being organized to build a railway from Parrish, Ala., to a point on the Southern Ry., and the southern terminal of the Northern Alabama Ry., to Ensley. Subscriptions for stock are now being taken. The construction will probably be commenced this year. Preliminary surveys have been made of the route, which will be 25 miles long. A. J. Frazier and Jas. Weatherly are interested.

FAIRFIELD & OTTUMWA.—This company has been incorporated in Iowa to build a double-track railway from Fairfield to Ottumwa, by way of Batavia and Agency. The company is capitalized at \$1,000,000. H. B. Scott, T. W. Barbydt and Wm. Carson are interested.

FAIRPORT & YOUNGSTOWN.—The company has been incorporated in Ohio, according to reports, to build a line to be a connecting link between the Pittsburg, Ashtabula & Youngstown line of the Pennsylvania system, and Fairport, O. The line will be 30 miles in length.

GREEN BRIER.—Wm A. Hawkins, Ch. Engr., Ronseverte, W. Va., informs us that the work on grading, masonry and tunnels of this line is about 60% completed, and that six miles of track has been laid. The line will extend from Whitcomb, W. Va., on the Cleveland & Ohio Ry., to the Forks of Greenbrier River, about 98 miles. The Central of West Virginia will build from Eiku, W. Va., to the Forks of Greenbrier to meet with the line, making a through connection with Pittsburg for the Cleveland & Ohio Ry. The contract for constructing the Greenbrier Ry. was let last August. The following are the principal contractors: Lane Bros. & Co., Esmont, Va.; Douglas, Gilmer & Co., Baltimore, Md.; Shanholtz, Sarpell & Co., Louisville, Ky.; Jno. J. Strang & Co., Kansas City, Mo.; John L. Pitts, Scottsbluff, Va.; Ferguson Contracting Co., New York, N. Y.; Johnson, Pitts & Briggs, Richmond, Va.; H. C. Simms, Pres., Huntington, W. Va.

GULF, COLORADO & SANTA FE.—C. F. W. Felt, Ch. Engr., Galveston, Tex., informs us that the work on the terminal improvements at Paris, Tex., to cost \$40,000, has not been authorized yet.

HILGARD, GRANITE & SOUTHWESTERN.—E. N. Bartlett, Secy., La Grande, Ore., informs us that engineers are now making surveys for this line, which will extend from Hilgard to Granite, Ore., about 60 miles, and that 15 miles has been surveyed. R. Smith, Pres., Perry, Ore. (We noted incorporation of this company, with further particulars, in these columns of Jan. 18.)

HOUSTON, BRAZOS & NORTHERN.—John W. Maxey, Ch. Engr., Houston, Tex., wrote us Jan. 19 that the full corps of surveyors were in the field and that 80 miles right of way had been secured. The company has been delayed in getting rails, but is now constructing in Houston and material was arriving daily. The first 10 miles will be built by the company under the supervision of

Mr. Maxcy, the work being very light. The line will extend from Houston, Tex., to Tishomingo, Ind. Ter., 400 miles. R. M. Hall, Pres., Houston, Tex.

INDIANA, ILLINOIS & IOWA.—It is reported that the main line of this company, extending from Streator, Ill., to South Bend, Ind., will be extended from the latter named place to Elkhart. D. Nowlan, Engr. Maintenance of Way, Kankakee, Ill.

INDIANAPOLIS SOUTHERN.—D. M. Parry, Pres., Indianapolis, Ind., informs us that surveys are nearly completed, terminals fixed and right of way being secured for this line from Nashville to Evansville, Ind., about 100 miles. Contracts will be let early this spring.

JACKSONVILLE & SOUTHWESTERN.—Geo. L. Davis, Ch. Engr., Jacksonville, Fla., informs us that 65 miles of this line has been completed, and grading of 76 miles has been finished; the balance is now being graded. The road is in operation from Jacksonville to Worthington, about 60 miles, and will eventually extend to Newburg, about 105 miles in all. The work is being done by the company, using day labor. James M. Barnes, Pres., Grand Rapids, Mich.

KANSAS, PERRY & PORT ARTHUR.—This company, which was recently incorporated with \$1,000,000 capital, proposes to build a railway from Perry, Okla. Ter., to Blackwell, from Perry to Coffeyville or Caney, and to Stillwater and Stroud, about 170 miles in all. J. B. Tate, M. Burke and Ethan Allen, of Perry, Okla. Ter., are interested.

MICHIGAN CENTRAL.—City Engineer McCormick is reported to have plans for abolishing the grade crossings of this road in Detroit, Mich.

MUSCATINE, TIPTON & NORTHERN.—Incorporated with \$150,000 in Iowa to build a line from Muscatine to Independence, 100 miles. Milon Weston, Pres.; L. Tobie, Vice-Pres.; H. O. Lloyd, Secy., Muscatine, Ia.

MURRAY & CRESTON.—This company is reported to have been incorporated by the officials of the Chicago, Burlington & Quincy R. R., to build the additional tracks of the company's lines between Murray and Creston, Ia. The company will be capitalized at \$2,000,000. C. P. Squires, W. N. McFarland and C. M. Long are interested.

NEW YORK CENTRAL & HUDSON RIVER.—Four coaling plants, four coal trestles and a Dodge coal storage plant will soon be completed for this line. Extensive improvements are also being made at the New York and Westchester terminals, including the Barclay and Desbrosses Sts. freight stations, extensions of docks and yards, etc. Further information may be found in last week's issue.

OFFERMAN & WESTERN.—C. M. Craig, Ch. Engr., P. O. Box 29, Savannah, Ga., informs us that this line from Offerman to Nicholls, Ga., a distance of 35 1/2 miles, has been completed with the exception of putting the crossing over the Waycross Air Line R. R. It is proposed to build at once an extension to Ocella, about 20 miles farther west, so as to connect with various mills.

OLD DOMINION & GREAT FALLS.—This company is reported to have been incorporated in Alexandria county, Va., with Joseph S. Miller, Pres.; R. D. Wever, Vice-Pres., and A. B. Grunwell, Treas.

PENNSYLVANIA.—Reports from Pennsylvania state that a trunk line, extending from Erie to Johnstown, and linking the Great Lakes to the Chesapeake Bay, is projected. The proposed line will be about 210 miles in length, tapping the coal fields of Western Pennsylvania. A line to Pittsburg is included in the project, and a steel plant to cost \$5,000,000 will be erected at Erie. The new company is reported to have purchased the charter of the Erie, Cambridgeboro & Titusville R. R., issued about 20 years ago. About 40 miles of roadbed were graded on this line, but the surveys were never laid. Other sundry purchases are reported in the interest of this line. John B. McDonald, Contractor, 100 Broadway, New York, is said to be interested.

PENNSYLVANIA R. R.—In the proposed improvements to be made by this company this year in Cambria county, Pa., is said to be an extension from Vintondale to Blacklick Station, on the Indiana branch. It is reported that surveys for this line have been made. The line will be about 18 miles long and will have a 1% grade and few curves. It is said that a new roadbed will be constructed on the Ebensburg branch, with a view to straightening some of the curves. W. H. Brown, Ch. Engr., Philadelphia, Pa.

PINE BLUFF & ARKANSAS RIVER.—H. E. Martin, Pine Bluff, Ark., informs us that the surveys and estimates for this line extending through English, Reydell and Big Bayou Meto, about eight miles, have been completed, but the construction capital has not been secured. W. H. Langford, Pres.; E. J. Nichols, Ch. Engr., Pine Bluff, Ark.

ST. LOUIS, KANSAS CITY & COLORADO.—James Dun, Ch. Engr. Atchison, Topeka & Santa Fe Ry., Topeka, Kan., informs us that this road has been sold to John Scullen and D. R. Francis, of St. Louis. Mr. Scullen's address is Security Bldg., St. Louis, Mo.

ST. LOUIS & NORTHERN.—S. W. Lee, Ch. Engr., Eureka Springs, Ark., informs us that 22 bids were received on Jan. 29 for constructing about 50 miles of line. The contract has been let to J. B. Colt & Co., Clinton, Mo.

SALEM & SOUTHERN.—It is reported that surveys for this line are being made and that grading will commence by April 1. The road will extend from Salem to Harrison, Ark. by way of West Plains. R. J. Greathouse, West Plains, Mo., is reported as interested.

SALINE COUNTY, BEAUXITE & GRANITE.—Reported as incorporated in Arkansas, with \$25,000 capital stock, to build 2 1/2 miles of railway in Saline county. S. R. Smith, R. S. Perry and Ed. T. Price are interested.

SHARPSVILLE R. R.—G. M. McIvalne, Receiver, Sharpsville, Pa., is stated, will build a 3-mile branch from Oakland to Wheatland, so as to give the B. & O. system an entrance by this route to the new Sharon Steel Co.'s mills, now being erected at that place. It is also reported that the Western New York & Pennsylvania Ry., which forms part of the B. & O. connection to Sharnsylvania, will soon pass under the control of the Pennsylvania & O. Co., and the Pennsylvania, the B. & O. having a few shares more of the stock than the Pennsylvania.

SOUTHERN.—Benj. Thompson, Res. Engr., Greensboro, N. C., writes us that nothing is known of the proposed extension from Round Hill to Spidersville, which was recently reported.—Reports state that a short line along the Dry Valley will be built by this company, to reach the ore deposits of the Dayton Coal & Iron Co., of Dayton. The line has been surveyed.

SOUTHERN PACIFIC.—Reports state that this company will build a new road from Mojave northeast to Keeler, 100 miles, to connect with the line running from Kramer. W. H. Hood, Ch. Engr., San Francisco, Cal.

TRAVERSE CITY & LEE LANAU.—Incorporated in Michigan with \$300,000 to build a railway. J. S. Stearns, Ludington; A. O. Wheeler, Grand Rapids, and C. E. Murray, Traverse City, are the incorporators.

UNION PACIFIC.—Reports state that contracts are about to be let for tunnelling Sherman Hill, three miles west of Cheyenne. The contract for building the cut-off from Tipton to Rawlins, 40 miles, has been let to Kil-

patrick Bros. & Collins, Beatrice, Neb., who are sub-letting some of the work. The work will require the removal of about 10,000,000 cu. yds. of earth, of which F. A. Masselli, Fort Dodge, Ia., has the contract for removing 800,000 yds. J. B. Berry, Ch. Engr., Omaha, Neb.

VICTORIA & KINGWOOD.—Incorporated in West Virginia, with \$1,500, to build a railway. A. H. Whitsett, Whitsett, Pa.; A. De Billier, Kingwood, W. Va., are the incorporators.

WESTERN & ATLANTIC.—Reports state that W. P. Laramore, of Cartersville, Ga., and associates have received the contract for ballasting the roadbed of this line from Adairsville to Atlanta. The contractors will erect an 88,000 rock crushing plant to supply the material, as several thousand tons of rock will be needed.

WHITE RIVER, LONOKE & WESTERN.—J. N. Woolley, Ch. Engr., Jacksonville, Ark., informs us that 16 miles of this line is now in operation and nine miles are being constructed by the company. The line will be 55 miles in length. A. P. Brewer, Pres., St. Louis, Mo.

STREET AND ELECTRIC RAILWAYS.

BERLIN, N. H.—C. P. Day, Pres., informs us that the capital for constructing the Berlin St. Ry. will be secured in about 10 days. The only work proposed for this year is the construction of four miles of railway and the improvement of the company's plant.

RYE, N. H.—It is reported that contracts have been let for erecting the power house for the Portsmouth, Rye & Hampton Electric Ry. The building will be 100 x 40 ft., and will be erected at Rye Centre, to cost \$35,000.

WEBSTER, MASS.—John Flint, Webster, informs us that it is probable that the Webster & Dudley St. Ry. will be extended to North Grosvenordale in the near future. L. R. Edely, Vice-Pres., Webster.

BRISTOL, CONN.—Local papers state that work will be started about March 20 by the Meridan, Southington & Compounce Ry. on the construction of a line to Lake Cony Lane, about 3 1/2 miles from its present terminus at Lazy Lane. Supplies for the project are being ordered.

DERBY, CONN.—B. W. Porter, Gen. Mgr., Derby, writes us that the contract for constructing the Derby St. Ry. Co. line, 1 1/2 miles, has been let. Surveys have been made.

BUFFALO, N. Y.—H. J. McDonald, of the International Traction Co., is reported as stating that plans have not been prepared for the proposed line between Lockport and Olean. The date of receiving bids for the construction of this line, which will be 16 miles long, has not been fixed.

FREEMONT (L. I.), N. Y.—A conditional franchise was granted by the board of trustees on Feb. 2 to the Nassau Belt Line Co. to build a trolley line through this place within one year.

ATLANTIC CITY, N. J.—The Delaware River & Atlantic Trolley Co. is reported to have purchased a tract of land on which it proposes to erect a power plant.

DOVER, DEL.—The Delaware General Electric Ry. Co. on Feb. 3 awarded a contract to H. Ridgely Harrington, Dover, for furnishing 8,000 ties to be used in the construction of its road from Dover to Camden, three miles distant, on which the work has begun.

WILMINGTON, DEL.—The contract for constructing the New Castle & Delaware City Electric Ry. has been let to the Delaware Construction Co., Wilmington. The road will be nine miles long, and will be completed by June 1.

BALTIMORE, MD.—The county commissioners on Jan. 31 granted a franchise to the Baltimore, Halethorne & St. Denis Ry. Co. to construct an electric road from Cantonsville to near St. Denis. The road is to be completed in one year. Oregon R. Benson, Pres., Cantonsville.

FREDERICK, MD.—C. C. Waters, Secy., Frederick, informs us that the surveys have been made for the Frederick, Thurmont & Northern Ry., which will run through Thurmont and Emmitsburg, about 36 miles, and franchises have been obtained. A charter will be obtained from the legislature to extend to Washington, D. C., the object of the road being to connect Washington with Gettysburg, Pa. L. Victor Boughman, Pres., Frederick.

BRIDGEPORT, W. VA.—Reports state that an electric railway from Bridgeport to Cambridge, about 50 miles, is projected.

ATLANTA, GA.—A charter has been issued to the Atlanta & Roswell Electric Ry. & Power Co., with \$500,000 capital, to build a railway from Atlanta to Roswell, about 20 miles. Walter H. Harrison, Ch. Engr., Atlanta.

CHATTAHOOGA, TENN.—We are informed that bids are now being received by the Rapid Transit Co. of Chattanooga for building its electric line, 4 1/2 miles in length.

COLUMBUS, O.—The Richmond & Eaton Traction Co. has been incorporated, with \$12,000 capital stock, to build a street railway. A. Emanuel, S. A. Price and H. O. Cox are interested.—The Southern Ohio Traction Co. has been formed by a consolidation of the Cincinnati & Hamilton, the Cincinnati & Miami Valley and the Dayton Traction companies. This consolidation will give a through line from Cincinnati to Dayton. F. J. J. Sloat, Gen. Mgr.

YOUNGSTOWN, O.—A franchise has been granted by the council to the Youngstown & Sharon Electric Ry. to build and operate an electric line through the streets of this place. Nearly all the right of way has been secured and contracts will be let this month. W. H. Park, Pres.; B. F. Mirt, Treas., Youngstown.

ANDERSON, IND.—The contract for building the Union Traction Co.'s power house at this place is reported to have been let to the Indiana Bridge Co., Muncie, at \$22,500.

NEW HARMONY, IND.—Arthur Dransfield, Ch. Engr., New Harmony, informs us that the right of way for the New Harmony & Mt. Vernon Ry. is now being secured. No capital has been secured and no contracts have been let. The route has not been definitely decided on. I. M. Glaze, Pres., New Harmony. (See issue Jan. 18.)

WABASH, IND.—A. H. Plummer, Wabash, writes us that the franchise granted him and associates by the county commissioners does not extend through the county but along the highway from the north line to the south line of the county. Mr. Plummer states that there is no intention of building, but the franchise will be given any person or corporation desiring to build an electric railway.

WARSAW, IND.—Local papers state that a franchise has been asked by A. F. Blizgs and associates to build an electric railway through Warsaw, from North Detroit.

GRAND HAVEN, MICH.—The council on Jan. 29 granted a franchise to the proposed Grand Rapids, Grand Haven & Muskegon Electric Ry. to build through this city. The road is to be completed by May 1, 1901. The company will erect a bridge between Spring Lake and the city.

SAGINAW, MICH.—A franchise was granted the Saginaw Southern Ry. Co. by the village council to build through the town limits.

OSHKOSH, WIS.—The real estate board has decided to invite eastern capitalists to build an electric railway from

Oshkosh to Berlin by way of Winneconne. The total population of the towns through which it will pass is about 12,000.

FORT WORTH, TEX.—It is reported that Glenwood & Polytechnic College St. Car Co., of Fort Worth, W. G. Clark, Engr., and the Consolidated St. Car Co., of Dallas, have agreed to build a road between Fort Worth and Dallas. Surveys have been started and the construction will begin as soon as the right of way is secured. Terminals at both cities have been secured by the Consolidated St. Car Co.

PORTLAND, ORE.—The franchise recently granted to G. Glass, Jr., and A. P. Smith, to build a street railway from this city to South Portland has been transferred to the City & Suburban Ry. Co., who will begin work within four months.

PORTLAND, ORE.—Bids were received on Feb. 3 for doing the grading and bridging on the Corbett-St. Ry. extension in this city. Emery Oliver, Engr., McKay Bldg., Portland.

ROSSLAND, B. C.—C. H. Hall, Engr. Nelson Tramway Co., Nelson, B. C., proposes to construct a street railway in Rossland and to Sophie Mountain, 15 miles.

ELECTRIC LIGHT AND POWER.

WELLESLEY, MASS.—A committee has been appointed to secure plans and estimates for a municipal plant.

FAIRPORT, N. Y.—C. H. Howe, Pres., writes us that the question of building a plant will be voted on at the annual meeting.

NEWARK, N. J.—A bill has been introduced to the legislature providing for a municipal plant.

EASTON, PA.—The question of erecting a municipal plant is being discussed, according to reports.

GREENSBURG, PA.—Cyrus T. Long, Boro. Engr., writes us that no plant will be built by his city, as was recently reported.

NEW WILMINGTON, PA.—An election will be held Feb. 20 to vote on the question of issuing \$6,000 in bonds for a plant. J. G. Martin, Secy.; G. W. Perkins, Burgess.

NORRISTOWN, PA.—The Norristown Electric Co. will receive bids soon for erecting a new plant.

WASHINGTON, D. C.—Local papers state that the Potomac Electric Power Co. and those who control the other electric lighting company, as well as 11 street railways in this district, will begin at an early date the enlargement of the steam electric plant in Georgetown owned by the Potomac company. From this central point, with the aid of the steam power plant of the Metropolitan R. R. Co., at the foot of 4 1/2 St., it is proposed to furnish all the electricity needed in the operation of the street railway and electric lighting companies controlled by these interests. It is proposed to increase the Potomac plant by putting in two 3,000-HP. machines. A high-tension current of electricity will be produced sufficient for the above mentioned work. Reduction stations will be maintained at the plants of the U. S. Electric Co., of the Columbia St. Ry. Co. and of the Eckington. These interests propose to develop the power of the Potomac River at Great Falls for the production of electricity to be used in this city for lighting and street railway purposes. This water plant, however, will not be ready for about three years, and the proposed enlarged steam plant will be made use of in the meantime. Frank Byllesby, Vice-Pres.

BALTIMORE, MD.—The Chesapeake Electric & Water Co. has asked the legislature to amend its charter so as to allow it to operate in this city. Thos. McGuinness, Pres.

DANVILLE, VA.—Harrison Robertson, Jr., writes us that he wants to purchase a 12-HP. 500-volt motor.

SALISBURY, N. C.—Reports state that bids will soon be asked by this city for erecting a plant.

STATESVILLE, N. C.—The question of more electric lights is reported as being considered. J. P. Caldwell, Mayor.

YORKVILLE, S. C.—The people voted Jan. 24 in favor of lighting the streets. The contract will probably be awarded to T. B. McClain.

DALTON, GA.—I. M. Saunders, Chn. Light Com., will receive bids for a plant for Dalton. Population, 6,000.

DOUGLAS, GA.—W. W. McDonald, Mayor, writes us that the question of issuing bonds for building a plant to cost about \$2,500, and water-works, will be voted on shortly. Bids will probably be asked March 20.

LA GRANGE, GA.—It is stated that an election will be held to vote on the issue of bonds for a plant.

JENNINGS, LA.—Reports state that work on the proposed plant will begin within two months. It will have a capacity for 1,800 lights and will cost about \$15,000. P. E. Stearnes, D. E. Sweet and I. D. Williams are interested.

TUPELO, MISS.—This town is reported to have sold \$15,000 in bonds for erecting a plant.

WINONA, MISS.—R. I. Allison, J. C. Wadsworth and C. Morsch will receive bids for a plant to run 2,500 incandescents and 50 arc lights, according to reports.

NASHVILLE, TENN.—The Cumberland Electric Light & Power Co. will extend its lines to Glendale Park and Waverly Place. The council is discussing the question of a municipal plant.

ADAIRVILLE, KY.—The question of electric lights is being considered.

IRVINE, KY.—W. O. Riddeff, Secy., writes us that the Irvine Land, Loan & Investment Co. has purchased the franchises for water, electric light and a street railway; will begin work in the spring.

OWENSBORO, KY.—The council has decided to erect a plant, to cost about \$40,000.

BELLAIRE, O.—The electric plant of the Bellaire Steel Works was burned Jan. 30; reported loss, about \$100,000.

BEREA, O.—The city has purchased the plant of the Berea Milling Co. for \$7,150. T. J. Quayle, Mayor, S. Loomis, Cy. Clk.

LOWELLVILLE, O.—Bids are asked until Feb. 17 for furnishing machinery and for installing a plant to have a 125-HP. horizontal tubular boiler; a duplex-feed water pump; a feed water heater; a 100-HP. automatic cut-off engine; a 60 or 75-K-W. dynamo, either direct connected or belted, either alternating or direct current; 25 enclosed street arc lamps, and wire and poles for circuits. J. H. Williams, Clk.

ANDERSON, IND.—The Union Traction Co. will erect a power house to cost \$758,000.—The council has authorized the expenditure of \$20,000 for erecting a plant.

FRANKFORT, IND.—The following bids were received Jan. 29 by O. Wolf, Cy. Clk., for erecting an electric light plant, (1) being for 2 water tube boilers, (2) electric appliance, (3) 2 dynamos, (4) 1 Corliss engine, (5) pole line and construction, (6) street light: Abendroth & Root Mfg. Co., Brooklyn, N. Y., (1) \$10,000; Rushmore Dynamo Works, Jersey City, N. J., (3) \$5,000, f. o. b. cars; Heine Safety Boiler Co., Chicago, Ill., (1) \$9,913; W. W. Hatch & Son, Goshen, Ind., (2) \$9,876, (5) \$12,135;

Lane & Bodley Co., Cincinnati, O., (4) \$7,500; C. L. Olds Construction Co., Ft. Wayne, Ind., (5) \$11,889; Clonbrock Steam Boiler Co., Chicago, Ill., (1) \$11,097; G. L. Thompson, Frankfort, Ind., (5) \$11,475; Arthur Frantzen Co., Chicago, Ill., entire plant, \$38,500; Belden Larwell Electric Mfg. Co., Fort Wayne, Ind., (6) \$2,065, 118 are enclosed; Vilter Mfg. Co., Milwaukee, Wis., (4) \$3,620; Erie Iron Works, Erie, Pa., (1) \$8,977, tubular, \$7,570, (4) three styles, \$5,100, \$5,420, \$7,920; Edward White, Fort Wayne, Ind., (6) \$1,750; Fort Wayne Electric Co., Fort Wayne, Ind., (2) \$9,500.

MUNCIE, IND.—Edw. Tuhey, Mayor, writes us that no steps have been taken to change the plant in any way.

PLANT, MICH.—The question of purchasing the plant, owned by private parties, is being discussed.

MUSKOGON, MICH.—Wm. Moore, Acting Mayor, writes us that an election will be held April 2 to vote on the question of issuing bonds for a plant to cost about \$50,000.

ONAWAY, MICH.—The question of granting a franchise to a company for lighting is being discussed.

SAGINAW, MICH.—Reports state that the question of issuing bonds for building a plant will be voted on in May.

SOUTH HAVEN, MICH.—The question of issuing bonds for additions to the plant will soon be voted upon, according to reports.

ALTON, ILL.—It is reported that a proposition to build a new plant will be made by Walter Naples and G. A. McMillen.

DANVILLE, ILL.—Bids are asked until Feb. 15 for furnishing fixtures for electric and gas lighting in the officers' residences at the National Home for Disabled Volunteer Soldiers. J. M. Birmingham, Gen. Treas.

SIDELL, ILL.—We are informed that the Sidell Electric Light, Cold Storage & Ice Co. will want bids on March 1 for a complete electrical, ice and cold storage plant, including boilers and dynamos; estimated cost, \$15,000. The plant will have a capacity of 500 of 16-c. p. lights. Address J. H. Herron.

CORYDON, IA.—It is said that the citizens want a special election to vote on the question of issuing bonds for a plant and water-works.

APPLETON, MINN.—The electric plant owned by Charles Crickmore was destroyed by fire Jan. 27.

JASPER, MINN.—A. H. Adams, Mayor, writes us that the question of erecting a plant has been postponed indefinitely.

ST. LOUIS, MO.—The following contracts for lighting the city were let Jan. 31: Weisbach Street Lighting Co. of America in Carondelet, \$7,334; Laclede Gas Light Co. incandescents, north of Washington Ave., \$25,998; Missouri-Edison Co., arc lighting, north of Washington Ave., \$11,430; Southern district, \$46,230; incandescents, \$24,485; Laclede Gas Co., buildings north of Washington Ave., \$30,837; Missouri-Edison Co., district south of Washington Ave., \$149,666.—It is stated that the Citizens' Electric Light & Power Co. will erect its power house in East St. Louis. August Gehner, Pres.

MONTE VISTA, COLO.—The question of building a municipal plant is being discussed.

MONTESANO, WASH.—The council is taking steps for the better lighting of the city, which has been without lights since the plant was burned.

BERKELEY, CAL.—The plant of the Electric Improvement Co. was destroyed by fire Jan. 27; reported loss, about \$75,000.

HEALDSBURG, CAL.—W. H. Barnes, Mayor, writes us that the plant, combining electric power and water supply, to cost about \$83,000, will be completed in about 30 days.

PETALUMA, CAL.—C. H. Egan, Secy., writes us that the Petaluma Power & Water Co. has done nothing so far regarding a plant.

RIVERSIDE, CAL.—The board has passed a resolution of intention to hold an election on the question of issuing bonds for a plant.

SAN JOSE, CAL.—The plant of the Electric Improvement Co. was burned Jan. 27; reported loss, about \$100,000.

BERLIN, ONT.—The Mayor writes us that the city intends to purchase the plant of the Berlin Gas Co. before Aug. 1, and if it does will extend it.

NIAGARA FALLS, ONT.—The commissioners of Victoria Park have granted a concession to a company, represented by Gen. G. S. Field, Buffalo, N. Y., to build a power canal on the Canadian side of the falls, which will develop about 200,000 HP.

NEW COMPANIES.—People's Light, Heat & Power Co., Wilmington, Del.; \$2,000,000; J. Megary, C. J. Ford, DuBar Electric Co., Philadelphia, Pa.; \$5,000; J. McMullan, J. M. Shimer, Fowler Electric Co., Fowler, Ind.; \$25,000; C. C. Curtis, H. B. Marsh, Coeymans Electric Co., Coeymans, N. Y.; \$50,000; L. E. Conger, C. L. Diston, McAllister Gas, Light, Heat & Power Co., Baltimore, Md.; \$5,000,000; J. H. N. Meuger, J. W. Gilroy, Manchester Light, Heat & Power Co., Manchester, Cal.; \$5,000; R. W. Jewell, H. L. Beardslee, Washington Light & Power Co., Washington, Ind.; \$21,000; R. A. Brown, M. F. Burke, Rio Grande Water & Power Co., Eagle Pass, Tex.; \$40,000; Leonardo de Bona, Petaluma Water & Power Co., Petaluma, Cal.; \$300,000; A. B. Hill, F. P. Boyle, Greensboro Water & Light Co., Greensboro, Ala.; \$30,000; C. E. Waller, L. L. Webb, Seattle Electric Co., Seattle, Wash.; \$6,250,000; J. Furth, Thomas Burke, Alabama Electric Light & Power Co., Montgomery, Ala.; \$50,000; T. S. Parsons, H. C. Davidson, Long Peak Power Co., Denver, Colo.; W. H. Davis, Pres.; J. B. Copeland, Vice-Pres.; J. P. Vaughn, Treas.

BRIDGES.

MANCHESTER, N. H.—A bridge is proposed for South Manchester. The structure will probably be 60 ft. wide with sidewalks on either side, 8 ft. in width.

BOSTON, MASS.—Secretary of War Root has approved the plans for the temporary bridge to be erected in this city, to be used during the construction of the Malden Bridge.

MALDEN, MASS.—A committee has been appointed to confer with the committee of Medford in relation to the construction of the proposed new bridge.

SPRINGFIELD, MASS.—Chas. M. Slocum, Cy. Engr., writes us that an attempt is being made to pass a bill in the legislature authorizing the construction of a bridge at this place.

NORWICH, CONN.—Local papers state that the railroad bridge over the Sbetushet River will probably be built by the New York, New Haven & Hartford R. R., in the near future.

SCHENECTADY, N. Y.—N. J. Marlette, Secy. Bd. Water Comrs., informs us that the General Electric Co. has petitioned for a lift bridge to be erected over the Erie Canal at Washington Ave. No plans have been decided on.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr., writes us that no definite steps have been taken towards the construction of the proposed new bridge over the Oswego Canal at North Salina St.

PITTSBURG, PA.—Local papers state that the plans for the new Pennsylvania R. R. bridge over the Allegheny River have been submitted to Maj. Chas. F. Powell, U. S. Engr., for investigation and report. The plans provide for a double deck extension of the present structure, which has nine spans, and is 1,127 ft. long, and 35 ft. high, with a main channel span of 152 ft. The structure will be unusually heavy to permit travel on both sets of tracks, and will probably cost \$400,000.

WASHINGTON, D. C.—About six of the wooden trestles on the Washington & Great Falls Electric Ry. are to be replaced by steel structures, while eight are to be replaced by earth fills.

BALTIMORE, MD.—Bids are wanted by the county commissioners until Feb. 13 for erecting a wooden bridge over the north branch of the Patapsco. The structure will have a 45-ft. span, and will connect Baltimore and Carroll counties. The commissioners are said to have asked for proposals for the erection of a brick and stone culvert on the Windsor Mill road, near Powhattan.

MORRISTOWN, TENN.—It is reported that the contract for constructing two iron bridges have been let by the county court. One bridge will be erected over Long Creek, eight miles from this place, and the other will be built over Zent Creek, 12 miles distant.

GRAND RAPIDS, MICH.—Geo. M. Ames, Cy. Engr., is reported to have recommended the removal of the plate girder bridge over the east side canal at Bridge St., to the west side canal, and a concrete arch erected in its place. The new structure would cost about \$17,200, and the removal of the present bridge about \$11,000.

SAGINAW, MICH.—H. E. Terry, Cy. Engr., writes us that plans for the new bridge at this place have been submitted to the War Department for approval. The structure will have five steel arches and one bascule draw span; estimated cost, \$200,000.

WEST BAY CITY, MICH.—Peter Lind writes that the council has taken no steps towards building the proposed viaducts, but the Consolidated St. Ry. Co. may build a narrow one for the accommodation of its cars.

CHICAGO, ILL.—Mayor Harrison has recommended the removal of centre pier structures and the substitution of bascule bridges.

DASSEL, MINN.—Bids are asked by the county commissioners until March 17, for constructing a steel bridge over the Collinwood Lake Creek, according to reports.

COUNCIL BLUFFS, IA.—S. L. Etnyre, Cy. Engr., is reported to have completed plans for a proposed bridge over Indian Creek at Fifth and Union Aves. The structure is estimated to cost \$2,000.

WATERLOO, NEB.—It is reported that a \$100,000 bridge is being proposed for this place.

CHEYENNE, WYO.—It is reported that \$6,000 of the necessary \$12,000 have been secured for the proposed bridge over the Big Horn River at Thermopolis.

RATHDRUM, IDAHO.—Bids are asked until Feb. 23 for improving the highway bridge over the Spokane River, near Fort Sherman, Kootenai County. John C. Callahan, Clk. County Comrs.

LINDSAY, ONT.—The town clerk writes us that no action is being taken for the construction of the proposed bridge on Ridant St., and it is not likely that the structure will be built this year.

BUILDINGS.

HANOVER, N. H.—The contract for building a new 3-story dormitory of Dartmouth College has been let to N. C. Edwards, West Chelmsford.

HOLYOKE, MASS.—W. B. Reid, 280 High St., Arch., writes us that the new school house will be three stories high, of brick, and cost about \$75,000.

WESTFIELD, MASS.—Bids are asked until Feb. 12 for completing the D. L. Gillett Block; D. L. Gillett, owner.

WORCESTER, MASS.—Frost, Briggs & Chamberlain, 452 Main St., writes us that they have prepared plans for a brick high school building, 110 x 158 ft., to cost about \$16,000, steam heat, etc. Bids were wanted Feb. 5.

GREENWICH, CONN.—Wm. G. Roeckefeller writes us that there is no truth in the report that he will erect a residence on the Secor farm.

NEW HAVEN, CONN.—Bids are asked until Feb. 23 for services in preparing plans, etc., for a school building. G. T. Hewlett, Clk. Bd. Education.—A. T. Hadley, Pres. Yale College, writes that plans for memorial buildings are being prepared by Carrere & Hastings, 28 E. 41st St., N. Y.; that no steps other than an authorization of the corporation have been taken toward securing money, and that no contracts have been let.

ALBANY, N. Y.—W. J. Obenaus, 48 N. Pearl St., has prepared plans for a 3-story brick building at Hamilton and Rose Sts., for Burdick & Son.

BROOKLYN, N. Y.—Plans have been filed by the City of New York for a 3-story and basement brick school, 172 x 61 ft., at 7th Ave. and 78th St., to cost about \$120,000. C. B. J. Snyder, Arch., 30th St. and Park Ave., N. Y.—Plans are being prepared for a church at 48th St. and 13th Ave. for the Borough Park Baptist Church.

GENEVA, N. Y.—Clinton & Russell, 32 Nassau St., N. Y. have prepared plans for a 3-story brick dormitory, 165 x 130 ft., for Hobart College, with steam from central plant. Bids will be asked in about two weeks.

LOCKPORT, N. Y.—It is stated that the Farmers' & Mechanics' Bank is considering the erection of a new bank building.

NEW YORK, N. Y.—Plans have been filed by Paul B. Pugh & Co. for a 7-story brick flat, 50 x 91 ft., at 101th St., near Amsterdam Ave., to cost about \$130,000. Neville & Barge, Archs., 217 W. 125th St.; by Max Vogel, 50 W. 119th St., for a 7-story brick flat, 50 x 88 ft., at 118th St., near Mornington Ave., to cost about \$75,000. G. F. Pelham, Arch., 503 Fifth Ave.; by Charles E. Picker, 56 W. 113th St., for six 3-story brick dwellings at 137th St., near 7th Ave., to cost about \$132,000. J. Hauser, Arch., 1441 Third Ave.; by Robert Wallace, 320 W. 70th St., N. Y.—Plans are being prepared for a church at 101st St., near West End Ave., to cost about \$236,000. G. F. Pelham, Arch.—It is stated that Simeon Ford and S. T. Shaw will erect an addition, on 42d St., to the Grand Union Hotel.

NEW YORK, N. Y.—Frank Marion Wright, Arch., 149 Broadway, will receive bids for 1,000,000 second-hand brick, in good condition, for a warehouse, 110 x 66 ft., on Front St., near Whitehall.—The following bids were received Jan. 31 for constructing the hospital building at the Ellis Island Immigrant Station: McQuade & Mahony, New York City, \$150,350, 350 days; Sloane & Moller, 331 E. 64th St., \$137,250, 300 days; Athalia Pasquie, New York City, \$128,288, 8 months; J. L. Leach & Son, 1402 Marquette Bldg., Chicago, Ill., \$123,193, 12 months; H. Probst, 1180 Broadway, \$122,950, 12 months; Louis Wechsler, New York, \$125,880, 12 months; D. M. Hayes Co., 523 W. Garfield Ave., Chicago, Ill., \$143,837, 12 months; Daniel H. Garber, New York, \$116,867, 10 months; O'Brien & Hoollhan, 1722 Park St., Syracuse,

N. Y., \$131,000, no time.—The building 421 Fifth Ave., occupied by D. S. Hess & Co., was destroyed by fire Feb. 1; loss, about \$250,000.

NEW YORK, N. Y.—A. W. Brunner, 36 Union Square East, is preparing plans for a building for Mt. Sinai Hospital, at 101st St. and 5th Ave., to cost about \$1,000,000.—The building committee of the Board of Education has approved the erection of a high school building at 66th St. and Amsterdam Ave., and one at 144th St., between 7th and 8th Aves.

UTICA, N. Y.—G. E. Cooper, 236 Green St., writes us that bids will be received in April for the new school building, 73 x 118 ft., to cost about \$30,000, to have electric power and lights and mechanical force draught over furnaces.

EAST ORANGE, N. J.—Brower & Albro, 580 Main St., write us that the Carnegie Library building will be of limestone, one story high and 110 x 100 ft., and cost \$30,000. Plans and specifications are being prepared.

GERMANTOWN, PA.—Bids are asked until Feb. 9 for erecting a 2-story battery building at 123 E. Chestnut Ch. Engr.

KUTZTOWN, PA.—E. F. Durang, 1200 Chestnut St., Philadelphia, writes us that he has prepared plans for a school building for the trustees of the Keystone State Normal School, to have steam heat and electric light, to cost about \$56,000.

MONESSEN, PA.—The Pittsburg & Lake Erie R. R. will erect a freight and passenger depot here, to cost about \$15,000.

PHILADELPHIA, PA.—Charles E. Cassell, 405 Law Bldg., Baltimore, Md., is said to be preparing plans for an apartment building on German St., to cost about \$250,000.

SCRANTON, PA.—Seymour Davis, 907 Walnut St., has prepared plans for a Y. M. C. A. building, to cost about \$200,000.

WASHINGTON, PA.—It is stated that a new high school building, to cost about \$75,000, will be built.

NORFOLK, VA.—Bids are asked until Feb. 24 for erecting a brick and steel building, 177 x 280 ft., at the navy yard. M. T. Endicott, Ch. Bureau Yards & Docks.

PETERSBURG, VA.—J. B. Russell, Asst. Engr., of the Jas. P. McDonald Co., writes us that plans for a 1-story brick station, 28 x 90, have been prepared but contracts will not be let at present.

PRUNTYTOWN, W. VA.—The board of directors of the West Virginia Reform School have accepted plans for a 3-story brick administration building, to cost about \$40,000.

NEW ORLEANS, LA.—The Pauly Jail Co., of St. Louis, Mo., will erect a large manufacturing building on Louisiana Ave.

LOUISVILLE, KY.—Konneth McDonald writes us that the addition to the court house will be of brick, stone and steel, with brick foundation, 109 x 60 ft., four stories high, and will cost about \$75,000. All contracts are let except for heating and two electric elevators.—The Liederkranz Society is having plans prepared for rebuilding its hall, recently burned, at 6th and Walnut Sts.

CHARLTON, O.—The county court house was partly destroyed by fire last week.

CLEVELAND, O.—Bids are asked until Feb. 20 for constructing a life saving station. S. I. Kimball, Gen. Supv. U. S. Life Saving Service, Washington, D. C.

CRAWFORDSVILLE, O.—It is stated that a Masonic temple, to cost about \$20,000, will be built at Wabash Ave. and Washington St.

DAYTON, O.—Several buildings in the manufacturing district were destroyed by fire Feb. 1; loss about \$50,000.

INDIANAPOLIS, IND.—Fire destroyed, Feb. 1, the buildings occupied by G. W. Stout, grocer, and others; loss, about \$350,000.

CHICAGO, ILL.—F. McVeagh, Pres. Bureau of United Charities, has prepared plans for a municipal lodging-house.—The Lake Forest University will erect an addition to Ferry Hall Seminary.

EFFINGHAM, ILL.—The Illinois College of Photography will erect a building to cost about \$50,000. L. P. Bissell, Pres.

LA CROSSE, WIS.—Langdon Boyd writes us that plans for the proposed packing house have not yet been prepared.—The question of erecting a court house, to cost about \$100,000, is being discussed, according to reports.

MADISON, WIS.—Bids are asked until about March 1 for erecting a school house 80 x 80 ft., to cost about \$15,000. Gordon & Pauuack, Archs., 14 E. Mifflin St.

CLINTON, IA.—E. M. Howes will build a 3-story store building, to cost about \$50,000.—The Northwestern Ry. will erect a round house with 32 stalls and machine shops this spring.—Plans have been prepared for enlarging its stock house and bottling factory and a new malt house for the S.oux City Brewing Co.; estimated cost, about \$200,000.

CLINTON, IA.—Bids are asked, according to reports, until Feb. 27, for erecting a U. S. building, to cost about \$100,000. J. K. Taylor, Supv. Arch.

GALVA, IA.—Bids are asked until March 1 for erecting a building for the M. E. Church. F. S. Jory, Pastor.

SPENCER, IA.—F. W. Kinney, Austin, Minn., has prepared plans for a court house, to cost about \$75,000.

CROOKSTON, MINN.—The county board has voted to erect a court house, to cost about \$60,000.

OMAHA, NEB.—Henry Haman has been awarded the contract for a new brick warehouse on Leavenworth St. for the Avery Mfg. Co., to cost about \$50,000. Charles Cleaves, Arch., Karbach Bldg.

BRULE, S. DAK.—Bids are asked for furnishing at the Lower Brule Agency a quantity of building material. B. J. Ash, Indian Agent.

KALISPELL, MONT.—The people have voted to issue \$40,000 in bonds for erecting a new court house.

LEAVENWORTH, KAN.—It is stated that Andrew Carnegie has offered \$25,000 for erecting a library building.

JOPLIN, MO.—This town has sold \$29,000 in bonds for erecting a new school house, according to reports.

KANSAS CITY, MO.—Van Brunt & Howe, 1214 Main St., have prepared plans for a 2-story brick building on Wyandotte St., to cost about \$25,000.

ST. LOUIS, MO.—Fire destroyed several buildings on Broadway and Franklin St. Feb. 4; loss, about \$1,000,000.

FT. SMITH, ARK.—The Sisters of Mercy will erect a new convent, to cost about \$40,000.

LITTLE ROCK, ARK.—A number of buildings at Main and Third Sts. were burned Feb. 6; reported loss about \$250,000.

DENVER, COLO.—The Colorado & Southern Ry. will erect the following buildings here this year: Brick round house, 800 x 30 ft., 35 stalls; turntable, 70 ft. in diameter, two coal chutes, with 24 pockets; sand house, 24 x 40 ft., two cinder pits, 100 ft. long, with drop pits, one standard and one narrow gauge; fireproof oil house, 24 x 36 ft.; machine

shop, 125 x 350 ft.; paint shop, 48 x 210 ft.; brick car shop, 120 x 188 ft.; two stories; saw-mill, 74 x 240 ft. office shop, 120 x 188 ft., two stories; 48 x 150 ft., two stories; transfer and store building, 48 x 150 ft., two stories; engine table pit, 75 x 40 ft., with electric transfer table; engine house, 60 x 60 ft., provided with three 200-HP. boilers, a 700-HP. engine and two dynamos, one 350 HP. and one 150 HP., according to reports. H. W. Cowan, Ch. Engr.

OURAY COLO.—Wm. J. Keith, Lumber Exchange, Minneapolis, Minn., is said to be preparing plans for a public library.

SEATTLE, WASH.—Bids are asked until Feb. 23 for erecting a brick store house at Rich's passage. Capt. Harry Taylor, U. S. Engr., Burko Bldg.—The Estate of John Osborne has a fund of \$50,000 for the erection of a new city hall.

KLAMATH AGENCY, ORE.—Bids are asked until March 3 for erecting a school building. W. A. Jones, Comr.

FRESNO, CAL.—An election will be held Feb. 24 to vote on the issue of bonds for erecting a school house. G. Studer, Trust.

OAKLAND, CAL.—The question of issuing \$1,750,000 in bonds for a new city hall, sewers, paving, etc., will soon be voted on. M. K. Miller, Supt. Streets.

REDLANDS, CAL.—An election will be held Feb. 21 to vote on the question of issuing bonds for school buildings, etc. C. L. Hayes, Trustee.

SANTA BARBARA, CAL.—The supervisors have asked for bids for steel work on the new jail, to cost about \$15,000.

SUSANVILLE, CAL.—Bids are asked until Feb. 24 for erecting a brick school house. J. B. Spalding, Trustee.

JEROME, ARIZ.—W. W. Wilson, Tucson, has prepared plans for the new brick Bartlett Hotel, to cost about \$30,000, according to reports.

PHOENIX, ARIZ.—Bids are asked for additions to buildings and for materials at the Indian School. S. M. McCowan, Supt.

BOISE, IDAHO.—The following bids were received by J. K. Taylor, Supv. Archt., for constructing, except heating, etc., the U. S. Buildings: L. L. Leach & Co., 1402 Marquette Bldg., Chicago, \$147,635, 20 months; Andrew Grandfor, 726 W. 6th St., N., Salt Lake City, Utah, \$183,761, 20 months; A. E. Barrett, Pullman, Wash., \$141,000, 20 months; Oct. 1, 1901; Paul Rierison Co., Milwaukee, Wis., \$173,000, 20 months; Butler-Ryan Co., 330 Globe Bldg., St. Paul, Minn., \$152,500, 20 months; Montana Bldg. Co., Helena, Mont., \$158,000, 20 months.

BRANTFORD, ONT.—Bids are asked until Feb. 15 for erecting buildings for the Farmers' Co-operative Packing Co. Geo. Ballachey, Secy.

TORONTO, ONT.—Bids are asked until Feb. 9 for erecting a residence and for alterations to a building. Gouinlock & Barker, Archts., 714 Temple Bldg.

WATER-WORKS.

BELLOWS FALLS, VT.—It is stated that this place will issue bonds for a new water supply.

BOSTON, MASS.—Bids are asked until noon Feb. 8 for furnishing about 700,000 lbs. of small iron castings for the water department, and manhole covers, tide-gate frames, etc., for the sewer department. A. P. Martin, Water Comr.; B. T. Wheeler, Supt. of Sts.

BROOKLINE, MASS.—It is proposed to increase the water supply of this place to 5,000,000 gallons a day. P. F. Forbes, Supt.

CAMBRIDGE, MASS.—The question of either putting in water meters or new pipe is being considered. The pipe would cost about \$500,000. W. B. Durant, Chn.

SPRINGFIELD, MASS.—Bids are before the legislature authorizing the city to increase its water supply, and also to build conduits for its electric wires.

MILFORD, CONN.—This place has voted against the proposition to contract for a water supply. C. A. Tomlinson, Chn. Com.

NEW HAVEN, CONN.—Alderman H. G. Shepard is collecting data for a water supply by the tubular and driven well system.—The New Haven Water Co. has secured control of the West Haven Water Co. The new owner will furnish West Haven with a new water supply.

ALBANY, N. Y.—Bids for furnishing 500 3/4-in., 10 3/4-in., 10 1/2-in., 1 1/4-in., 5 2-in., 5 3/4-in., 3 4-in., and 1 6-in. water meters, were received from the following on Jan. 31: Standard Meter Co., New York; National Meter Co., New York; the Thomson Meter Co., New York; the Hersey Meter Co., Boston, and the Neptune Meter Co., New York. It is said that the bids of the Standard and Hersey companies did not comply with the specifications.

DANVILLE, N. Y.—F. W. Dalrymple, Cy. Engr., of Horrellville, N. Y., writes us that the proposition to issue \$9,500 in bonds for extending the works will be voted upon Feb. 13. The new supply will be received from Mill Creek. Plans have been prepared by Mr. Dalrymple.

FULTON, N. Y.—The village board has voted to issue \$115,000 in bonds to build the new works, according to reports.

SALEM, N. Y.—The question of improving the water supply of the jail is being considered. Geo. McLaughlin, Secy. County Supervisors.

UTICA, N. Y.—The Consolidated Water Co. has let the contract for furnishing about 2,000 tons of 20-in. cast-iron water pipe to the Utica Pipe Foundry at \$50,000. Contracts will probably soon be let by the water company for constructing the reservoir and dam.

YONKERS, N. Y.—The Medina Water Co. has been incorporated with a capital of \$125,000, by G. K. Bell and C. E. Macey, of New York, and J. F. Horton, of Yonkers.

ATLANTIC CITY, N. J.—A bill is before the legislature authorizing this city to issue \$125,000 in bonds for new 12, 21 and 30-in. water mains.

CAMDEN, N. J.—It is proposed to build an auxiliary pumping plant to cost about \$13,000. Councilman Roberts, Chn. Water Com.

DOVER, N. J.—The Dover Water Co. is reported to have offered to sell its works for \$80,000, but the city considers the property worth only about \$40,000. The question of building municipal works to cost about \$60,000 is being considered.

HOBOKEN, N. J.—Bids are asked until Feb. 27 for furnishing 20 tons of 6-in. cast-iron water pipe. Henry Egbert, Pres.; Henry Lobmann, Jr., Water Registrar.

MOUNT HOLLY, N. J.—The question of purchasing the works of the Mount Holly Water Co. is being considered.

NEWARK, N. J.—Work on the Cedar Grove storage reservoir will be begun in March. C. E. Davis, Res. Engr.; Geo. Sanzenbach, Asst. Engr.

OCEAN CITY, N. J.—The Ocean City Water Co.'s stock has been sold to Camden and local parties for about \$125,000. The new owners will at once build works, according to reports.

ALLEGHENY, PA.—The question of building a new reservoir is being considered. Address Councilman Wm. G. Manning.

BOYERTOWN, PA.—The court has decided that the city may build its own works.

EASTON, PA.—At the election this month this city will vote to issue bonds for municipal works.

JOHNSTOWN, PA.—Jos. Morgan, C. S. Price, Gen. Mgr. Cambria Steel Co., and W. Horace Rose have applied for a charter for the Manufacturers Water Co., to furnish an increased water supply to the Cambria Co.

MCKESPORT, PA.—The Pennsylvania Water Co., It is stated, will build at 13,000,000-gallon reservoir to cost about \$100,000.

NEW CASTLE, PA.—The New Castle Water Co. will put in a stand-pipe in the northern part of the city. The company is controlled by the American Water-Works & Guarantee Co., of Pittsburg. D. H. Ambsbury, Supt.

NEW WILMINGTON, PA.—The general agent of Westminster College, Rev. J. H. Veazey, will erect an aermotor and steel tower for pumping water over a hill for the supply of the college buildings. The pipes are being laid, but the aermotor has not yet been secured.

PHILADELPHIA, PA.—An ordinance is before the committee authorizing the city to pay the Holmesburg Water Co. \$200,000 for its franchises, etc.

BALTIMORE, MD.—E. T. Kitson, Reading, Pa., has been awarded the contract for building the Tuxedo and Embla Park works at \$24,000.—The municipal board of awards has let the following contracts for the year's supplies: Lime and cement, John Bullock & Son, \$1,751; tools, Coggins & Owens, \$4,593; rubber goods, Geo. P. Thomas, Jr., \$1,109; lead lined iron pipe, The Lead Lined Iron Pipe Co., Wakefield, Mass., \$9,349; brass and gun metal castings, The Curtis Bay Brass & Metal Works, \$1,014; bar iron and steel, The Wilcox Hardware & Iron Co., \$524; cast-iron work, J. J. Lacy & Co., \$8,333; service pipe connections, The H. Mueller Mfg. Co., Decatur, Ill., \$9,145.

BLACKSTONE, VA.—The question of works is reported as being considered.

RICHMOND, VA.—The water committee has asked the council for \$200,000 to build a settling basin, and it is stated by local papers that bids will soon be asked. Dr. J. W. Mallet, Chn. Com.; C. E. Bolling, Supt.

BLUEFIELDS, W. VA.—It is stated that this place has voted to issue \$20,000 in bonds for a pumping plant and mains, and \$25,000 for a reservoir.

GASTONIA, N. C.—The contract for the filtration plant for the new works has been awarded to the New York Filter Mfg. Co., 26 Cortlandt St., New York. Moore & McCree, of Atlanta, Ga., have the contract for constructing the works, sewers and electric plant.

GREENVILLE, S. C.—It is stated that arrangements are being made by the city to purchase the property of the Paris Mountain Water Co., the city having an option to purchase until July 15.

AUGUSTA, GA.—It is proposed to law new 12 and 16-in. pipe to cost about \$20,000.

VICKSBURG, MISS.—W. L. Trowbridge, Mayor, writes us that the city has a bill before the legislature asking authority to issue \$50,000 in bonds to purchase the works or to build a new plant, build a sewerage system and a city hall.

IRVINE, KY.—W. O. Ridell, Secy. Irvine Land, Loan & Investment Co., writes us that the company has purchased the franchises for water, light and street railways, but it is not known when work will begin. Proposals from companies willing to put in the improvements are wanted, but should no arrangements be made the company will do the work itself.

MOREHEAD, KY.—It is proposed to build works, according to reports.

BATAVIA, O.—A. T. Johnson, Secy., writes us that this city voted Feb. 3 to issue additional bonds for the works and electric light plant. It is expected to be able to contract for the plants by March 15, so that work may be begun by April 1. The water supply will be secured from the creek, and mechanical filters put in. Chas. Belt, Pres. Electric and Water-Works Trustees.

CINCINNATI, O.—Bids are asked until April 17 for furnishing four pumping engines with a capacity of 30,000,000 gallons each, a 20-ton electric crane, etc., as stated in our advertising columns. (Postponement from March 9.) C. G. Robt, Chn. Com.; Aug. Herrmann, Pres. Bd.

CLEVELAND, O.—Bids are asked until Feb. 15 for the materials and foundations for an engine house, chimney, etc., as stated in our advertising columns, and plans for which are on file at the office of Engineering News, 220 Broadway, New York, and 1636 Monahan Block, Chicago. Bids are also asked until Feb. 26 for furnishing a quantity of cast-iron water pipe, grate valves and fire hydrants, as may be required during the year, as stated in our advertising columns. Walter R. Rice, Dir. Pub. Wks. John Vandervelde, Deputy Dir. Pub. Wks.

CUYAHOGA FALLS, O.—Hosea Paul writes us that at the election Jan. 27 this place voted to issue \$50,000 in bonds for works. It is said that plans have been prepared, but that another election will be necessary to select trustees to take charge of construction.

HAMILTON, O.—The board of control has passed a resolution directing consumers of water to instal water meters by April 1. J. E. Lobmann, Dir. Pub. Wks.

MUNCIE, IND.—It is stated that the Muncie Water-Works Co. will spend about \$40,000 in improvements to its works. A reservoir and filter plant will be built.

NATIONAL MILITARY HOME, IND.—Bids are asked until noon Feb. 12 for furnishing and delivering f. o. b. cars on grounds, 9,000 ft. of 6-in., and 2,700 ft. standard 4-in. wrought iron line pipe; 6 all-iron extra heavy gate valves, etc.; 2 iron tanks. Also digging trenches, distributing and laying 13,800 ft. of pipe and backfilling the trenches. H. O. Heichert, Treas. N. M. Home for D. V. S.

WOOSTER, IND.—J. L. Eberhardt, Cy. Engr., writes us that the city will probably erect a filtere plant in the spring.

GRAND RAPIDS, MICH.—Superintendent Shaw, of the water-works, is again urging the city to purchase another pump.

LAPEER, MICH.—It is reported that this city will purchase new pumps. Address President Halpin, of the village board.

OWOSSO, MICH.—Bids are asked until Feb. 19 for furnishing an air lift plant for the water-works, as stated in our advertising columns. I. H. Keeler, Pres. Bd. Pub. Wks.

READING, MICH.—M. G. Malley, Mayor, writes us that specifications for works will be completed in a few days, after which bids will be asked. The water supply will be secured from wells. Populatica, 1,400. Geo. W. Pierson, Engr., Kalamazoo, Mich.

SAULT STE. MARIE, MICH.—It is stated that City Engineer Lawrie will submit recommendation for removing the pumping plant up the river, and for remodelling the works, to cost \$60,000, and for improving the sewers at a cost of about \$30,000.

BELVIDERE, ILL.—W. M. Mareau, Cy. Engr., writes us that the contract for sinking an artesian well will soon be let, the appropriation having been made. It is also proposed to pave about 25,000 sq. yds. with asphalt.

ALTON, ILL.—The municipal ownership commission has recommended the city ownership of the works. Address President Venner.

GROSSDALE, ILL.—Plans for works have been completed by W. T. Griffith, Harlem, Ill.

JOLIET, ILL.—An ordinance is being prepared authorizing the board of local improvement to increase the water supply to 3,000,000 gallons. Address Mayor Mount.

CROYDON, IA.—It is stated that an election will be probably be held to vote on the question of issuing bonds for works, and an electric plant.

DUBUQUE, IA.—The committee has agreed to recommend the purchase of the works of the Dubuque Water Co. for \$545,000. C. H. Berg, Chn. Com.

VALLEY JUNCTION, IA.—This place is reported to have defeated the proposition to purchase the works and electric plant recently constructed.

STILLWATER, MINN.—The Stillwater Water Co., It is stated, proposes to build two water tanks, and to make other improvements to the works.

LIVINGSTON, MONT.—J. A. Savage, Cy. Chk., writes us that the proposition to buy the works for \$100,000 was defeated at the election Jan. 25. The question of building city works is being considered.

PITTSBURG, KAN.—It is stated that the question of purchasing the works from the company is being considered by the city.

WATERVILLE, KAN.—M. I. Reitzel, Cy. Chk., writes us that the question of works for the present has been dropped.

APPLETON CITY, MO.—K. Brown, Vice-Pres., writes us that a company has been organized with a capital of \$2,500 to sink a well for a water supply. Proposals are wanted for sinking a well between 800 and 1,200 ft. deep; work to be commenced May 1. Population, 2,000.

ST. LOUIS, MO.—Patrick H. Flynn, Montague St., Brooklyn, N. Y., will submit a proposal to the city officials for a new water supply to be secured from the Meramec River. The works will cost about \$200,000,000.

HOUSTON, TEX.—Bids are asked until Feb. 28 for furnishing 1,400 tons of water pipe, and 20 tons of castings, as stated in our advertising columns. Alex. Potter, Consulting Engr., 157 Broadway, New York; S. H. Brashear, Mayor.

GILLETTE, COLO.—We are informed that the works and electric plant owned by the Golden Crescent Water & Light Co. will be extended from here to Cameron, 2 1/2 miles. The company will probably do its own work. R. M. Jones, Engr., Victor, Colo.

BERKELEY, CAL.—Local papers state that the board of trustees has decided to make no further attempt to secure municipal works. The wells at San Pablo have not proved satisfactory.

CLAREMONT, CAL.—We are informed that a water supply from wells is proposed. Population, 250.

MONROVIA, CAL.—W. A. Walker, Cy. Chk., writes us that it is proposed to build reservoirs, a small pumping plant and pipe lines; estimated cost, \$20,000. An election to vote on the question will be held Feb. 27. R. A. Sawyer, Cy. Engr.

OAKLAND, CAL.—The Realty Syndicate has driven a well 400 ft. deep which furnishes a flow of 30,000 gallons a day which will be used for supplying its property. F. C. Havens, Gen. Mgr.; W. F. Boardman, Hydraulic Engr.

SAN FRANCISCO, CAL.—The Home Water Co. has been incorporated with a capital stock of \$250,000 by H. T. Lyng, of San Francisco, and J. M. Davidson, of Oakland, Cal.

SALT LAKE CITY, UTAH.—Reports state that the council will soon ask for bids for about 2 1/2 miles of 30 to 36-in. cast-iron water pipe.

SYDNEY, N. S.—The town clerk writes us that no information regarding works and sewerage can be given before March, but in the meantime information is being secured by an engineer.

NOME, ALASKA.—Chas. D. Lane, a prominent mine owner, of San Francisco, Cal., and others, propose to build a pumping plant to cost about \$150,000, railways, and to develop certain mining properties in the vicinity of this place. Reports state that most of the contracts have already been let.

SEWERAGE.

AMESBURY, MASS.—It is stated that the question of building a system, with the outlet in the Merrimac River, will be decided upon this year.

BOSTON, MASS.—Bids are asked until noon Feb. 8 for furnishing catch-basin covers, sewer castings, etc., for the year ending Feb. 1, 1901. B. T. Wheeler, Supt. of Sts.

NEWBURYPORT, MASS.—The city is reported to have been authorized to spend about \$75,000 for extending the sewer in Ward 6.

READING, MASS.—Geo. L. Flint writes us that at the town meeting on Jan. 20 a committee was appointed to investigate the sewerage question. L. M. Bancroft, Chn.; E. H. Gowing, Civil Engr., Secy.

BATAVIA, N. Y.—Estimates for constructing a sewage pumping station, disposal beds, etc., is being considered. Address Mayor Sanford and Alderman Lewis.

BUFFALO, N. Y.—It has been decided to build a sewer to cost \$35,000 in Virginia St.

NEW YORK, N. Y.—Bids are asked until Feb. 14 for constructing sewers in six streets in Manhattan, and in Timpon Place, in the Bronx, and until Feb. 28 for constructing the first section of the Fort Hamilton Ave. sewer, to be 13 1/2 ft. in diameter and 3,700 ft. long. The entire sewer will cost about \$400,000, and will be over three miles long. Jas. Kane, Comr. of Sewers, 13 Park Row, New York.

SYRACUSE, N. Y.—Estimates for sewage disposal works at the point where Onondaga Creek empties into Onondaga Lake have been submitted. The septic tank system will cost about \$100,000, or filtration beds, \$150,000. Pumps, etc., will cost about \$50,000. R. R. Stewart, Cy. Engr.; J. K. McGuire, Mayor.

WATERTOWN, N. Y.—Plans for improving the system, at a cost of about \$50,000, is being considered.

CARLISLE, PA.—The question of issuing \$100,000 in bonds for a system will be voted upon Feb. 20. C. D. Ives, Engr., Chambersburg, Pa.; J. G. Faber, Burgess.

INDIANA, PA.—Hugh M. Bell, Pres. Town Council, writes us that this place will hold an election in March to vote on the question of issuing \$100,000 in bonds for a system. The council will reorganize after March 5. Plans for a system are said to have been made a year ago by John R. Caldwell, who estimated the work at \$54,000, excluding a disposal plant. S. A. Smith, Burgess.

LEBANON, PA.—Surveys are about to begin in connection with a complete system. The work will very likely be done by Geo. W. Hayes, Cy. Engr., assisted by Jas. H. Fuentes and Rudolph Herling, both at 100 Broadway, New York, as Consulting Engineers. J. R. Beckley, Cy. Chk.

READING, PA.—J. G. Yarnell has been awarded the contract for a sewer in 11th St., at \$1,647.—It is proposed to build storm sewers in three sections, at a cost of about \$85,000.

CANTON, O.—P. H. Weber, Cy. Engr., writes us that legislation is being made for the main sewer for district No. 1, or east district, and the cost has not yet been decided upon. Bids for 17,000 yds. of brick paving will be wanted in latter part of March.

CLEVELAND, O.—Bids are asked until March 1 for constructing a sewer in Mulrison St.; check \$5,000. W. P. Rice, Dir. Pub. Wks.

GREENVILLE, O.—L. E. Chenoweth, Mayor, writes us that the contract for sewers will be let in about six weeks; estimated cost, about \$72,000. Address W. D. Brumbaugh, Cy. Engr.

LIMA, O.—The council has voted to spend \$38,000 for the Timber Lake sewer, to cost \$38,000.

MANSFIELD, O.—We are informed that a combined sewage and garbage disposal plant will be built. The sewage will be disposed of through septic tanks and filtration of slack coal, and the garbage by incineration; estimated cost, \$85,547. Snow & Barbour, Engrs., Tremont Bldg., Boston; Jacob Laird, Cy. Engr.

FORT WAYNE, IND.—Bids are asked until March 5 for constructing about 14,000 ft. of brick sewers, as stated in our advertising columns. A. M. Schmidt, Clk. Bd. Pub. Wks.

BAY CITY, MICH.—A brick sewer to cost \$2,800 is proposed in Third St. O. A. Watrous, Chn.

MASON, MICH.—It is proposed to build a system at a cost of \$25,000, according to reports.

CHICAGO, ILL.—Arrangements are reported as being made for the proposed sewer from 83d St. to the drainage channel, to cost about \$500,000. An extension along Western Ave., requiring a siphon, will cost about \$68,000. M. J. Hobery, Supt. of Sts.; N. A. Sager, Engr. Intercepting Sewer Division.

EMMETTSBURG, IA.—The question of building a system is reported as being considered.

MINNEAPOLIS, MINN.—The question of building sewer facilities for the beet sugar factory at St. Louis Park is being considered. The sewer will be about 8,740 ft. long and will cost about \$29,000.

CANTON, S. DAK.—F. H. Bacon, Mayor, writes us that plans for about three-quarters of a mile of 12-in. pipe sewers will be ready by Feb. 15, after which bids will be wanted. S. B. Howe, Engr., Sioux Falls, S. Dak.

HOUSTON, TEX.—Bids are asked until Feb. 28 for furnishing and installing the machinery for the main sewage pumping station and a sub-station, and for constructing 7,200 ft. of pipe and 1,375 ft. of brick sewer, and for laying 2½ miles of 21-in. cast-iron force mains, as described in our advertising columns. Alexander Potter, Consult. Engr., 157 Broadway, New York; S. H. Brashear, Mayor; Wm. Baugh, Cy. Secy.

ROCKDALE, TEX.—The question of putting in a system is being considered, according to reports.

DENVER, COLO.—Bids are asked until Feb. 13 for constructing sewers in certain streets. J. W. Shackelford, Pres. Bd. Pub. Wks.

PORTLAND, ORE.—City Engineer Chase is preparing plans for an 80 to 32-in. brick sewer, to cost \$40,000.

LOS ANGELES, CAL.—The question of building a sewer in the southeast portion of the city is being considered.

OAKLAND, CAL.—M. K. Miller, Supt. Sts., writes us that the question of issuing \$1,750,000 in bonds for sewers, paving, etc., will probably soon be voted upon.

SAN LUIS OBISPO, CAL.—It is stated that \$116,000 of bonds have been sold for the proposed system and water-works to E. D. Shepard & Co., of New York.

GARBAGE DISPOSAL—STREET CLEANING

NEW YORK, N. Y.—A bill, is reported as about to be introduced in the legislature authorizing the city to establish a garbage disposal plant to care for all the city's refuse. A year will be given in which to remove the objectionable plants on Barren Island.—The Assembly on Jan. 29 passed the measure of Assemblyman Gale establishing a garbage crematory for Queens county.—Herbert R. Tate, 21 East 20th St., the present contractor, has secured the contract for picking over refuse collected by the street cleaning department's wagons, and delivered to the East 18th St. pier. There were six bidders for the privilege of picking over refuse. In 1898 Mr. Tate handled about 30,000 loads, which netted the city nearly \$15,000. Geo. W. Hyatt has the contract for the scow trimming, at \$1,750.

SYRACUSE, N. Y.—R. R. Stuart, Cy. Engr., writes us that nothing is at present being done with reference to garbage disposal, street cleaning, etc., as was recently reported.

LANCASTER, PA.—The Mayor writes us that the money has been appropriated for a crematory, etc., but nothing further has yet been done.

COLUMBUS, O.—A bill is before the legislature providing for garbage crematories in the cities and towns of Ohio.

MANSFIELD, O.—We are informed that plans for combined sewage and garbage disposal have been prepared by Snow & Barbour, 1120-21 Tremont Bldg., Boston, Mass. The garbage will be disposed of by incineration. Jacob Land, Cy. Engr.

STREETS AND ROADS.

LOWELL, MASS.—J. Crowley, Mayor, writes us that no appropriations for paving have yet been made.

BUFFALO, N. Y.—Bids are asked until Feb. 8 for improving and paving several streets. R. G. Parsons, Secy.

COHOES, N. Y.—It is stated that the board intends to pave seven streets with asphalt.

NEW YORK, N. Y.—It is stated that Commissioner Keating, Dept. of Highways, will ask for \$1,000,000 for paving in Bronx, \$700,000 in Brooklyn and \$300,000 in Manhattan.

WATERTOWN, N. Y.—F. Waddingham, Pres. Bd. Pub. Wks., writes us that no paving contracts have been let, and none will be for some time.

NEWARK, N. J.—The common council voted to add \$100,000 to the capital fund for paving.

ERIE, PA.—Bids are asked until Feb. 12 for curbing Parade St. B. E. Briggs, Cy. Engr.

WAYNESBURG, PA.—Hiram Kent, Chief Burgess, writes us that an election will be held Feb. 20 to vote on street and sewer improvements.

ROANOKE, VA.—Bids are asked until Feb. 28 for grading and paving several streets. J. H. Wingate, Cy. Engr.

MARTIN'S FERRY, W. VA.—Reports state that the council favors paving every street in the town.

WHEELING, W. VA.—Bids are asked until Feb. 12 for furnishing paving bricks for 1300. W. H. Hornish, Clk.

COLUMBIA, S. C.—F. S. Earle writes us that the council will, at its next meeting, probably advertise for bids for laying about \$5,000 worth of cement paving.

ATHENS, GA.—J. W. Barnett, Cy. Engr., writes us that the city will lay about 3,238 sq. yds. of brick paving, to cost about \$5,764; about 9,256 sq. yds. of Belgian blocks, to cost about \$11,108; about 31,330 sq. yds. of macadam, to cost about \$18,821, and about 17,500 ft. of curbing, to cost about \$4,900.

BIRMINGHAM, ALA.—Plans have been prepared for the construction of about 25 miles of macadam road in Jefferson county. Col. J. F. B. Jackson, Supv. Roads.

NEW ORLEANS, LA.—The street commissioners have authorized the paving and improvement of several streets.

OWENSBORO, KY.—It is stated that all the principal streets will be improved with brick, asphalt and macadam to cost several hundred thousand dollars. An electric plant to cost about \$10,000 will also be built.

CANTON, O.—Phil H. Weber, Cy. Engr., writes us that bids will be received in March for laying about 17,000 sq. yds. of brick and block paving, to cost about \$33,000. A sewer will also be built in District No. 1.

CIRCLEVILLE, O.—W. C. Row, Mayor, writes us that no paving is projected and no contracts have been recently awarded.

CLEVELAND, O.—E. A. Dory, Contract Clk., writes us that the bids for paving 13 streets with brick, opened Jan. 18, and for 12 streets with brick, opened Jan. 30, have been held up by the board of control, to break the alleged brick combine; no contracts will be awarded before Feb. 12.

FRONTON, O.—A. M. Collete, Mayor, writes us that no paving or sewers are contemplated in Fronton.

SANDUSKY, O.—Bids are asked until March 2 for laying about 10,958 sq. yds. of brick, block asphalt or sheet asphalt paving and 4,835 ft. of curb on N. Depot St. J. W. Miller, Cy. Engr.

TOLEDO, O.—The park board will ask the legislature to authorize the issue of \$150,000 for constructing the boulevard.

DETROIT, MICH.—The board of public works has directed the secretary to advertise for bids for paving three streets with asphalt.—We are informed that the estimators do not meet until April.

CHAMPAIGN, ILL.—C. A. Dwyer, Cy. Clk., writes us that about a mile of brick pavement is contemplated. W. H. Tarrant, Engr.

BELVIDERE, ILL.—Wm. A. Moore, Mayor, writes us that asphalt paving, to cost about \$60,000, will be let this year. Bonds have not yet been issued. Contracts will be let in March or April.—W. M. Mareau, Cy. Engr., writes that an ordinance has been drawn for laying about 25,000 sq. yds. of asphalt paving.

CHICAGO, ILL.—The taxpayers have asked the board of local improvements to macadamize the streets in Roseland, to cost about \$500,000.—West Adams St. will be paved with asphalt.

ELGIN, ILL.—It is stated that this city will want a steam road roller before May 1.

PEORIA, ILL.—The board of improvements is discussing the improving of La Salle St.; the board has been petitioned to improve Indiana Ave.

MILWAUKEE, WIS.—Bids are asked until Feb. 8, for the purchase of \$160,000 in bonds for permanent street improvements. C. F. P. Pullen, Comr. Pub. Dept.

ST. PAUL, MINN.—The following bids were received Jan. 29 by the board of public works for asphalt paving: Farrington Ave., Barber Asphalt Paving Co., \$10,000; Warren-Scharf Asphalt Paving Co., \$10,612; Hennessy & Cox, \$10,332. Summit Ave., Barber Asphalt Paving Co., \$6,914; Warren-Scharf Asphalt Paving Co., \$7,240; Hennessy & Cox, \$7,003. Sherburne Ave., Barber Asphalt Paving Co., \$3,350; Warren-Scharf Asphalt Paving Co., \$1,117; Hennessy & Cox, \$4,010.

OMAHA, NEB.—The County Clerk writes us that the paving of the cemetery road is only talked of at present.

OMAHA, NEB.—Bids are asked until Feb. 23 for grading the alley between Mason and Pacific Sts. Andrew Rosewater, Chn. Bd. Pub. Wks.; Wm. Coburn, Secy.

YORK, NEB.—The Mayor writes us that no steps have been taken toward paving, and that nothing will be done until June, if then.

ST. LOUIS, MO.—Chas. Vandusann, Street Comr., writes us that nothing can be done toward improving Kingshighway at present, as the city has no money for the work.

ST. LOUIS, MO.—The board of public improvements is discussing the paving, with asphalt or granite, of 23 streets.

SEATTLE, WASH.—The Moore Investment Co. has awarded the contract for laying 13,560 ft. of cement sidewalk to J. K. Whitmore, at \$11,125.

SPOKANE, WASH.—The board of public works has rejected all bids for grading 7th Ave. The bids of Fife & Conlon, \$16,000, was the lowest.

VANCOUVER, WASH.—The street committee is considering plans for improving Main and West B Sts.

LOS ANGELES, CAL.—The board has passed ordinances of intention to improve Wilde St. and 30th Place, to sidewalk Los Angeles St., and for a sewer in Gladys Ave.

VACAVILLE, CAL.—The question of issuing \$80,000 in bonds for paving, etc., is being discussed.

LEWISTON, IDAHO.—City Engineer McCullough has recommended the paving of Main St. with macadam.

CHATHAM, ONT.—J. W. Shackleton, Cy. Engr., writes us that the city will lay about 9,000 sq. yds. of brick paving this year; bids will soon be asked.

MANUFACTURING PLANTS.

NORWICH, CONN.—The factory of the Hopkins & Allen Arms Co. was destroyed by fire on Feb. 4; reported loss, about \$500,000.

ALLENSTOWN, PA.—It is reported that E. C. Weaver, superintendent of the Mid Vale foundry, has purchased a tract of 33 acres of land on which he will erect a large foundry.

PHILADELPHIA, PA.—Local papers state that H. C. Frick, Pittsburg, is negotiating for the purchase of the Pennsylvania Steel Co.'s plant on Sparrow's Point, near Baltimore, Md.—Reports state that the Pinkerton Construction Co., of this city, will erect a \$50,000 ice manufacturing plant at Long Branch.

PITTSBURG, PA.—The Standard Oil Co., 26 Broadway, New York, it is said, will build at once an oil refinery, at Morningside, to cost about \$6,000,000.—Reports state that a consolidation of coke interests is being formed, to have about \$3,000,000 capital stock, to build about 1,000 coke ovens and a short railway to connect the plants.

SHARON, PA.—It is reported that the Sharon Steel Co. will install 200 wire nail machines in its plant as soon as it is completed. A machine shop is being erected, and the machines will be manufactured here.

JAMESTOWN, N. C.—J. S. Ragsdale, of this place, is said to be organizing a company to build a new cotton mill at Pessemier City.

KING'S MOUNTAIN, N. C.—The secretary of Baumier Cotton Mills writes us that the contract for the building of the company's plant at this place will soon be let. The machinery has been ordered.

LOWELL, N. C.—S. M. Robinson, Lowell, informs us that the contract for constructing a factory building and tenement houses, for a mill of 5,000 spindles, together with equipment, will be let in about 10 days. A company has been organized with \$70,000 capital stock.

SHELBY, N. C.—A cottonseed oil mill, to cost about \$20,000, with a capacity of 20 tons, and three gas, are proposed for this place, to be built by July 1.

STATESVILLE, N. C.—N. T. Rowland, Statesville, writes us that he needs a 20-HP. boiler and a 10-HP. gas or gasoline engine.

TAYLORSVILLE, N. C.—E. L. Hedrick, Taylorsville, informs us that there is not sufficient capital to build the proposed mill, and nothing will be done until machinery is acquired. Mr. Hedrick states that second hand machinery will be taken as capital. The mill will need 2,000 spindles and 50 looms to manufacture 4 x 4 sheetings.

WAKE FOREST, N. C.—O. K. Holding writes us that the Wake Forest Canning Co. will receive bids for machinery to put up 10,000 cans of fruit daily; estimated cost, \$2,000. The buildings have not been decided on.

FINGERSVILLE, S. C.—Bids are wanted by the Fingersville Mfg. Co. for furnishing the equipment for its plant, at this place. The equipment will include 10,000 spindles and complete equipment for steam power. No contracts have been let. The buildings have been completed. Laddshaw & Laddshaw, Archs., Spartanburg, S. C.

JONESVILLE, S. C.—The Alpha Cotton Mills has sent us a copy of the specifications for the steam plant for which it is now soliciting bids. The plant includes a 36 x 12 Corliss engine, two 100-HP. tubular boilers, one 100-HP. boiler feed pump, one 300-HP. feed water heater and two 125-HP. injectors, together with fittings. J. J. Littlejohn, Treas.

CORDELE, GA.—We are informed that bids are wanted at once by Messrs. R. L. Wilson and C. N. Murray for furnishing an equipment to a mill to manufacture cotton goods; estimated cost, \$50,000. The building will be brick and will cost about \$30,000.

JACKSONVILLE, GA.—Reports state that the Pennington Cotton Mills will add about 7,500 spindles and 200 looms, to cost about \$300,000.

JACKSON, MISS.—J. G. Toole, Jackson, informs us that a three-story addition will be erected to the present plant of the J. G. Toole Mfg. Co., manufacturers of broom handles, etc., and he will need handle and stove lathes.

LAUREL, MISS.—John Hopkinson, Supt., writes us that bids are wanted until March 1 for constructing two 50 x 700-ft. buildings, to cost \$60,000 each, for the Laurel Cotton Mills. All contracts for equipment, except boilers, have been let. Geo. S. Gardner, Pres., Laurel.

FAYETTEVILLE, TENN.—H. K. Molimon writes us that the stock is being solicited for a company to build a cotton mill.

KNOXVILLE, TENN.—The Tennessee Mineral Co. has been organized, with \$2,500,000 capital stock, to erect a concentrating plant to cost \$500,000. M. T. Frankenthal, Gen. Mgr., Brooklyn, Tenn., is said to be purchasing the equipment.

CHICAGO, ILL.—Local papers state that A. Booth & Co. propose to build a new cold storage plant to cost about \$200,000. Plans for the new plant are now being prepared.

TOPEKA, KAN.—Local papers state that Wm. Harris and J. M. Wood, representing capitalists, are seeking a location for a cold storage plant at Winfield; cost \$100,000.

PATTONSBURG, MO.—B. F. Royston & Son, Pattonburg, writes us that the building for their mill has not been decided on, but the contract will probably be let about April 15; estimated cost, \$2,500. The equipment will also be purchased about April 15, to cost \$9,000. The mill will be operated by water power. A small boiler for heating purposes and a small electric lighting plant will be needed.

SPOKANE, WASH.—The Washington State Sugar Co. is reported to have been incorporated, with \$500,000 capital stock, to build a \$350,000 sugar plant.

DANVILLE, ONT.—A committee from this place is reported to have offered the Denew Mfg. Co. free water, and exemption from taxes for 10 years, and a 15-acre site, providing the company will establish a branch plant in the town.

MISCELLANEOUS CONTRACTS.

MINES.—Canada.—It is stated that the S. Obermayer Co., Cincinnati, O., will operate a graphite mine.

IMPROVEMENT BONDS.—San Diego, Cal.—The question of issuing \$80,000 in improvement bonds is being discussed.

FERRY SLIP.—Vallejo, Cal.—The contract for building a ferry slip at Mare Island has been let to Fred. Peterson, Oakland, at \$28,773.

PIER.—Philadelphia, Pa.—Plans have been filed for a pier, 640 x 150 ft., at Snyder Ave., for the B. & O. R. R. Co. C. C. F. Bent, Div. Supt.

IMPROVEMENT BONDS.—Middletown, O.—Bids are asked by the city clerk until Feb. 23 for the purchase of \$75,000 of improvement bonds.

CANAL.—Albany, N. Y.—The state canal commission has recommended the constructing of a barge canal in this state, to cost about \$62,000,000.

FIRE BOAT.—Philadelphia, Pa.—Bids are asked until Feb. 15 for constructing a steel police and fire boat. A. L. English, Dir. Dept. Pub. Safety.

PARK WORK.—Newport, R. I.—Wm. H. Lawton writes us that the people will vote in April on a special appropriation for completing the Esplanade.

STEAM TENDER.—Astoria, Ore.—Bids are asked until Feb. 20 for constructing a steam, steel light-house tender. Rear-Admiral F. J. Higginson, U. S. N.

WHARF.—Nelson, B. C.—The council has decided to erect a wharf, to cost about \$11,000. The city engineer will probably receive bids about Feb. 12.

STEAMBOAT.—Rock Island, Ill.—Bids are asked by the U. S. Engineer until March 2 for a wooden-hull steamboat, as stated in our advertising columns.

WHARF EXTENSION.—Eastport, Me.—The Washington County R. R. will, it is stated, extend its wharf 75 ft. into tide water. G. A. Curran, Pres., Calais.

TUNNEL.—Rock Springs, Wyo.—The Excelsior Rock Springs Coal Co. is reported to have advertised for bids for constructing a tunnel 700 ft. long near here.

IMPROVEMENT BONDS.—Bathurst, N. B.—Bids are asked until Apr 2 for the purchase of \$10,000 of improvement bonds. N. A. Landry, Secy.-Treas.

GUN FORGINGS.—Washington, D. C.—Bids are asked until Feb. 14 for furnishing two sets of 4-inch gun forgings. Chas. O'Neill, Chief Bureau of Ordnance.

IMPROVEMENT BONDS.—Qu' Appelle Station, N. W. T.—Bids are asked for the purchase of \$5,000 of 20-year 0% improvement bonds. J. C. Starr, Secy. Treas.

DRAINAGE.—Monticello, Ind.—Bids are asked until Feb. 20 for constructing a public ditch, 12 3-10 miles long, about 4,778 cu. yds. of digging. W. P. Bushnell, Comr.

DRAINAGE.—Stonington, Ill.—Bids are asked until Feb. 20 for furnishing 10,426 ft. of 20-in., 4,700 ft. of 18-in., and 2,300 ft. of 15-in. tile. D. L. Gage, Drainage Comr.

PIER.—Boston, Mass.—Bids are asked until Feb. 24 for constructing a wooden pier, 75 x 450 ft., at the Boston Navy Yard. M. T. Endicott, Ch. Bureau Yards and Docks.

PARK.—Rye, N. Y.—The question of issuing \$300,000 in bonds for purchasing Rye and Oakland Beaches for a public park is being discussed. J. A. Gwynne is said to be interested.

TELEGRAPH SUPPLIES, ETC.—New York, N. Y.—Bids are asked by the Police Department, 300 Mulberry St., until Feb. 14, for furnishing a quantity of telegraph and telephone supplies.

CANAL IMPROVEMENTS.—Port Colborne, Ont.—Bids are asked until Feb. 26 for improvements to Welland Canal; postponed from Jan. 26. L. K. Jones, Secy. Dept. of Works and Canals, Ottawa.

NAVAL SUPPLIES.—Vallejo, Cal.—Bids are asked until Feb. 27 for furnishing a quantity of bolts, nuts, plates, bars, etc., at the Mare Island Navy Yard. A. S. Kenny, Paymaster-General, U. S. N.

LUMBER.—Philadelphia, Pa.—Bids are asked until Feb. 14 for furnishing at the League Island Navy Yard a quantity of hemlock and yellow pine lumber. A. S. Kenny, Paymaster-General, U. S. N.

SILL.—New Orleans, La.—Bids are asked until March 7 for constructing a sill across the head of Pass a L'Oucre, Mississippi River, as stated in our advertising columns. Maj. H. M. Adams, U. S. Engr.

FILLING.—Atlantic City, N. J.—Le Chard & Baker write us that they have signed a contract with the Chesapeake Investment & Development Co., Philadelphia, for filling over 400 acres of land.

PARK WORK.—New York, N. Y.—Thos. W. Weatherend's Son, Jersey City, submitted the lowest bid Feb. 2, to the Department of Parks for erecting a propagating house, etc., in Central Park, at \$11,400.

VESSEL.—Portland, Me.—Bids are asked until March 1 for constructing a steam, wooden, light vessel, to be delivered at Little Diamond Island, Portland Harbor. Rear-Admiral F. J. Higginson, U. S. N., Chf. Light House Bd.

NAVAL SUPPLIES.—New York, N. Y.—Bids are asked until Feb. 13 for furnishing a quantity of rivets, wire, sheet zinc, brass rod, asbestos, packing, etc., at the New York Navy Yard. A. S. Kenny, Paymaster-General, U. S. N.

TIMBER DRY DOCK.—Cleveland, O.—Bids are asked until March 8 for constructing a timber dry dock and shore protection on the Cuyahoga River, as stated in our advertising columns. J. Vandewelde, Deputy Dir. Pub. Works.

CEMENT.—New London Conn.—Bids are asked until Feb. 28 for delivering about 11,000 barrels of Rosendale and about 3,000 barrels of Portland cement at Fisher's and Plum Islands, New York. Maj. S. S. Leach, U. S. Engr.

CEMENT AND PIER.—New York, N. Y.—Bids are asked by the Department of Docks, Pier A, N. R., until Feb. 16, for furnishing 10,000 barrels of Portland cement, and for erecting a new wooden pier east of Pike Slip. Chas. Murphy, Comr.

TELEPHONE.—London, Ky.—J. H. Souder, Gen. Mgr., writes us that the Kentucky Telephone Co. has a franchise from the state, and will build about 500 miles of double metallic circuit, about 200 telephones and 25 switch boards, to cost about \$100,000.

BUILDING MATERIALS.—Anadarko, Okla. Ter.—Bids are asked for furnishing about 3,840 ft. stone abutments, 40 barrels hydraulic cement, 12,000 ft. lumber, 9,000 lbs. iron bolts, bars, rods, spikes and castings and 20 gallons metallic paint. J. F. Randlett, U. S. Indian Agent.

FOREIGN CONTRACTS AND EXPORT NEWS.

JAPAN.—Press reports state that the Kansan Ry. Co. will spend about 8,000,000 yen on its 510 miles of proposed line. About 280,000 yen will be used for bridges, 1,750,000 for tunnels, 1,500,000 for rails and 400,000 for rolling stock. Rensai Kando, Okinde Abe and Kunimichi Kitagaki are interested. The proposed Kishu Ry., projected by Gunnosuke Senda and others, with a capital of 350,000 yen, has recently been granted an official sanction.—The Nankai Ry. Co. has also been allowed to construct a line between Wakayama and Kuroyo, seven miles.—The Kyushu Ry. Co. has been granted permission to make surveys for a line between Nagasaki and Dojima shore. S. Mukasa, Ch. Engr., Moji. —The Osaka Ry. Co., Osaka, proposes to extend its lines. —The Kyoto Ry. Co. proposes to extend its line for six miles. —The Sanuki Ry. Co., Kotolima, Shikoku, proposes to spend 105,000 yen in extending its line 3 1/2 miles.—The Bisei Ry. Co. proposes to extend its line from Schinoniyama (Bishu) to Inuyama, on the completion of the track now being built.—The Han-Shin Tramway Co., Osaka and Kobe, will double its capital stock.—The A-San Ry. Co. has completed survey for its line, to be 40 miles long.—The Chugoku Ry. Co., Okayama, will build the line proposed by the Kibi Ry. Co., the first section to be 11 miles long. S. Ogama, Ch. Engr., Okayama. —The Sanyo Ry. Co. is at work on the tunnels and deep cuttings for its extension, 65 miles of which are under construction. Malcolm Brunner & Co., agents, 22 St. Mary's Ave, E. C., London, Eng.; T. Usibia, Engr.-Dir., Kobe.

VIENNA, AUSTRIA.—Press reports state that the Ministry of Commerce has granted the petition of Julius Ludwig, Pres. Hungarian State Rys., Budapest, to make a trial of accumulator cars between Vienna and Budapest in order to ascertain whether or not the traffic of the state railways may be carried on by this means. C. Banovits, Dir. Locomotive Dept., Budapest.

MEXICO.—Francisco Z. Mena, Minister Communications and Pub. Wks., and President Diaz are giving attention to a projected line, to be 410 miles long, and to connect the four states of Yucatan, Campeche, Tabasco and Chiapas with the general railway system. The road is to be called the Southern National and International, and is to touch Campeche, Lerma, Monte Claro, Carmen, El Jule and other towns. At the latter point the road is to connect with the Isthmus Ry. Capital subscribed so far is about \$10,000,000, including a subvention of \$6,000,000 to be given by the government. State subsidies are also to be solicited. Santiago Mendes, Asst. Secy., Dept. Communications, estimates the road to cost \$14,000,000.

ARGENTINA.—The Cordova government has granted a concession to Peacock & Co. for light railways in the province. The line will start from Cruz Alta and will end at Rio Seco, via Las Canas, Saladillo, Bellville, Transito and Villa de Santa Rosa—about 400 miles in all. Permission has also been granted for branches from Las Canas to Marcos Juarez, from Las Canas to Colonia Italiana, and from Las Canas to Colonia San Jose, passing through Leones on the Central Argentine Ry. Work will com-

mence inside of six months from the date of the contract, and the first section is to be open within two years. Address Peacock & Co., care of the Minister of Public Works of Cordova.—Permission has been granted to the Rural Tramway Co. of Calle Corrientes, 3971, Buenos Ayres, to extend its lines into the Calle Reconquista from Plaza Lavalle, passing down Calle Tucuman and returning by Calle Lavalle.—The Ferro-carries Economicos del Sud Este de Buenos Ayres, Agustin Molina, Pres., Calle Pizarra, 150, Buenos Ayres, holds the concessions for narrow gauge railways, Gen. Ways and Works, Rua Maria and Tandil and Mar de Plata to Loberia and Necochea, 170 miles, and it is stated that construction will soon be commenced.

BRAZIL.—The Conde d'Eu Ry. Co. has been authorized to finish the section from Mulungu to Alagoa Grande, State of Parahyba. H. G. Sumner, Gen. Mgr. and Res. Engr., Parahyba.—Alme, 500 kilometers long, connecting Sao Paulo and Bahia is projected to start from Conquista, on the Mogyana Ry., in Sao Paulo, via Araxa, Sacramento, Bagagem and across the Serra dos Piloos to Paracatu. The terminal will be the port of Burity on the Paracatu affluents of the River Sao Francisco. Dr. Caetano Cesar de Campos, Dir. Gen. Ways and Works, Rua Maria Jose, Haddock, Lobo 3, Rio de Janeiro.

ROMANIA.—I. I. Bratinn, Minister Pub. Wks., Bucharest, has approved plans for three new lines of railways for Roumania, to be constructed soon, at a cost of \$16,546,100, exclusive of rolling stock, etc.

MEXICO.—The Monterey & Mexican Gulf Ry., according to the "Mexican Herald," intends to soon place an order for 100 box cars. Arthur Monnon, Gen. Mgr., Monterey, Mex.—The Mexican Central Ry. proposes to soon extend its lines, besides the work already going on. The longest line will run from Guadalajara south to Colima and thence to Manzanillo. W. R. Andrews, Material Agent, Mexico City.

MONTEVIDEO, URUGUAY.—Juan Jose Castro, Minister de Fomento, Calle 25 de Mays, 104, has accepted Mr. Colladon's proposal to convert the tramways in the city to electric.

GEORGETOWN, BRITISH GUIANA.—F. B. Brothers, prominent in street railway circles in Montreal, Que., and Toronto, Ont., was in Montreal Jan. 27 to buy cars, rails, equipment, etc., for the proposed lines in this country for the Demerara Electric Co., Ltd., for which he is manager of construction. Work on the car sheds, stations, the grading, etc., is well under way. Sir Wm. Van Horne, Pres., Montreal.

GLASGOW, SCOTLAND.—Bids are asked until Feb. 17 for furnishing 200 to 300 motor-car trucks, 200 to 300 motors and equipments, and the supply delivery and erection complete of the overhead trolley constructional work required for the equipment of the system. Deposit for forms, etc., \$25. (See last week's issue regarding contracts for the tramway.) John Young, Gen. Mgr., 88 Renfield St.; Sir J. D. Marwick, Town Clk.

GENEVA, SWITZERLAND.—The General Tramways Construction, Syndicate, Ltd., has been registered by Goldberg & Co., 2 and 3 West St., E. C., London, Eng., with a capital of \$1,000,000, to construct rail and tram roads, for which concessions were granted Dec. 1898, and July, 1899, by the Federal Assembly of the Swiss Government Republic, to Francois Forestier.

BUCHAREST, ROMANIA.—Reports state that concession has been granted for an electric railway between Polish, Ostrau, and Klein-Ileabowa.—The Societe des Tramways Unis de Bucharest has secured an extension of its concession for a period of 50 years. The system is to be converted to electric traction.

TIEN-TSIN, CHINA.—It is stated that Chrys Moller, formerly interested in a cable line in Sioux City, Ia., has returned to America to purchase equipment for an electric railway three miles long, to connect the foreign quarter of Tientsin with the native walled city. English and Japanese capitalists have secured the franchise, which is said to be the first for an electric line in China. The Chinese, Mr. Moller says, have no objection to electric railways.

CONSTANTINOPLE, TURKEY.—It is reported that a Berlin syndicate is about to petition the Ministers of Commerce and Public Works, Constantinople, for a concession for an electric tramway in this city.

TOKYO, JAPAN.—The electric line of the Tokyo Denki Tetsudo Kaisha is running between the Kawasaki station and the Daishi temple, about two miles. The company has applied for a charter to extend the line in two opposite directions, one running towards Shinagawa and the other Yokohama. The ultimate end would thus be to join Yokohama and Shinhashi.

ATHENS, GREECE.—U. S. Consul McGinley reports that the Greek Electrical Co. has recently been formed, with a capital of 5,000,000 drachmas (about \$600,000), by the Bank of Athens and the Societe Generale d'Enterprise, to undertake the electric lighting of Athens, Piraeus, Patras, Syra, and Kalamata. Bids can be addressed to the company direct, or to G. A. Constantinides, 3 Corais St.

BERLIN, GERMANY.—It is stated that the Allgemeine Electricitats, Gesellschaft, of Berlin, and Schubert & Co., of Nuremberg, are asking for prices for electrical and mechanical machinery.

MILAN, ITALY.—La Societa Italiana per lo Sfruttamento dell'Energia Elettrica, of Milan, has made application to the Ticino Canton authorities for a concession to utilize the water power of the River Maggia. It is estimated that 2,800 HP. will be available.—La Societa di Electricita Umbra has been formed in Perugia, with a capital of 48,000, to acquire and operate a central station, established by Siemens & Halske, of Berlin.

STOLBERG, GERMANY.—Reports state that the authorities of Stolberg (Harz) propose to establish a central electric lighting station.—The establishment of a central station in the town of Bamberg has been decided upon.—The Helios Co., of Ehrenfeld, Cologne, has the contract for a central station at Horde.

HORSHAM, ENG.—Bids are asked until March 1 for furnishing boilers, pipe work, two dynamos, batteries, switchboard, traveling crane and underground main, enclosed arc lamps, etc., for the electric plant. Deposit for plans, etc., \$5. W. C. C. Hawtayne, Engr., 9 Queen St. Place, London, E. C.; S. Mitchell, Clk. Council.

—Bids for a complete plant are also being received by K. MacDonald, Town Clk., Inverness, Scotland.

NAPLES, ITALY.—The Societe d'Enterprise Electricques has been organized to erect three electric light and power plants in the city; capital, 4,000,000 lire.

DUBLIN, IRELAND.—Bids for the proposed electric plant will probably be received in March; estimated cost, \$1,272,000; feeding and distribution, \$355,000; public arc lighting, \$202,000; works at pigeon house, \$480,000, and meters and house connections, \$75,000. This sum includes the estimated cost of the whole plant, together with the work of laying mains, trenching, etc. The following are the estimates for some of the more important details: For buildings, foundations for plant, chimney, etc., \$100,000; engine-house plant, \$179,500; boiler-house plant, \$58,350; pipe and feed tank, \$17,500; 500 lamp posts, etc., \$55,000. The supply works are to be erected at the pigeon house, which is at the entrance of the harbor. The current is to be delivered to the distributing

center at Fleet St., through three trunk mains sufficient to supply 100,000 8-c.p. lamps, all alight at one time. Spencer Hartly, City Surveyor.

SOUTHPORT, ENG.—The Southport & Lytham Tramroad Co. has applied for permission to build a bridge over the Ribble, at a cost of about \$230,000. This section of the proposed electric road will cost about \$800,000.

WEST HAM, ENG.—It is stated that the contract for the new infirmary has been let by the West Ham Board of Guardians to John Shillito & Son, 63 Old Kent Road, S. E., London, at about \$183,320. The West Ham Town Council has also let contracts as follows: for apparatus for the borough electric plant; three 84-K-W steam dynamos, switchboard, feeder pipes, etc., condensing, Thames Ironworks & Ship Building Co., Ltd., Blackwall, E., London, \$23,135; accumulators, the F. G. Hart Co., 128 Victoria St., S. W., \$3,465; cooling tower and condensing plant, Wheeler Condenser & Engineering Co., Ltd., 173 Queen Victoria St., E. C., London, \$1,225; motors, D. Bruce Peebles & Co., Tay Works, Edinburgh, \$2,735; telephone No. Verity & Sons, King St., Covent Garden, W. C., London, \$675.

EGREMONT, CHESHIRE, ENG.—Bids are asked until March 15 for furnishing and erecting a pumping engine, two 18-in. bore-hole pumps and double-acting force pump, to deliver 2,500,000 gallons a day; also the necessary lifting tackle; and for drilling two 30-in. wells 600 to 800 ft. deep and to have steel lining tubes, for the Wallacey Urban Works. The wells and connections will cost about \$70,000. J. H. Crowther, Engr., Great Float, near Birkenhead; H. W. Cook, Clk. Council.

LAMPETER, ENG.—Bids are asked until Feb. 14 for 11,300 ft. of 4-in. cast-iron water-pipe, air-valves, hydrants, inlet chamber, etc. M. W. Davies, Engr., 3 Charlotte Pl., Swansea. —Bids for 135,000 yds. of filtering material for the improvements to the water-works at Birmingham are being received by James Mansergh, Engr., 5 Victoria St., Westminster.

TAMPICO, MEX.—A fire in this city on Feb. 6 destroyed the mercantile house of Valle Lopez & Abascal, and ten other houses and the city market on Abaja Mercado St., according to reports; loss, about \$800,000. There is no fire protection in the city, but propositions for water-works are to be considered on Feb. 15 by the city council and the city clerk, as noted in our issue of Oct. 12. The works, including a sewerage system, will cost about \$800,000, silver.

BRITISH GUIANA.—Sir Walter J. Sendall, Governor, Georgetown, is advocating the opening up of the coast lands of the south of the colony from the Iherbee River to Dutch Guiana by providing a water supply and a railway to cost about \$500,000.

SYRIA.—U. S. Consul Raundal, Beirut, Syria, reports that windmills are needed in this country for irrigation purposes. Sabbag & Co., Beirut, Syria, and the El Agha, M. M. Setton, Secy., Aleppo, Turkey-in-Asia, are the market for windmills and agricultural instruments.

CAIRO, EGYPT.—Leon Witsenhausen, this city, desires to receive prices and details for a 250-HP. pumping engine and pumps suitable for an irrigation station on the Nile.

MEXICO.—We are informed as follows regarding work to be done in Mexico: A company is being organized, with a capital of \$1,000,000 gold, to increase an existing cotton mill of 60 looms to 600 looms. This will be situated near Durango, in the State of Durango. Two large waterfalls will be controlled to furnish power for mill; also electric power for manufacturing purposes in Durango. H. D. Johnson, Civil and Mining Engr., 313 North Rebecca Ave., Scranton, Pa., is now looking for a contractor to join him in taking a \$700,000 (Mexican money) contract to construct a sewerage system and water-works in Durango. Mr. Johnson was engineer for the contracting firm in Guadalajara, which built about 90 miles of sewers. The same firm has just received the contract for constructing water-works, for which purpose \$800,000 gold was borrowed in Chicago. Mr. Johnson knows of different cities which propose putting in sewerage and water-works; also of different railways to be constructed, and other large enterprises. He traveled considerably through the republic in the interest of these projects, and he would like to correspond with any one who would work jointly with him. Mr. Stahlknecht, German Vice-Consul, Ciudad de Durango, Estado de Durango, can furnish all particulars in regard to machinery required for cotton mills and electric plants.

CALATAYUD, SPAIN.—Bids are invited (open date) for supplying machinery for a new sugar factory for La Azucarera Labrador, of this place.

ESSEN, GERMANY.—Plans are being prepared for an extension of the Krupp Steel Works. New buildings to cover about 4 1/2 acres will be erected. Estimated cost, with the machinery, about \$875,000.

STRAUSBERG, GERMANY.—Wilhelm Engel, 4 Grosse-strasse, this city, and Emil Schuster will erect tile works to be operated by steam power.

CHEMNITZ, GERMANY.—C. H. Findeisen, 50 Zschopauerstrasse, this city, has bought property in Hainichen and will erect a machine shop there.

ENGLAND.—The St. Louis Car Works, St. Louis, Mo., will erect a car manufacturing plant, to cost about \$100,000, in England, according to reports.

AALBORG, DENMARK.—Johan Gaarn, Secy., Aplested-sphalet de Smithske Jernstoberier Os Mashinvoersteder (iron foundry and machine works), desires to receive the names of makers of tobacco machinery.

ROTTERDAM, HOLLAND.—U. S. Consul Hill, Amsterdam, Dec. 21 reported that in January there would be presented for sale, through A. Loeb, of the banking house of Mendes, Gans & Co., grounds in the immediate neighborhood of Rotterdam, near deep water and railway. Here there can be established a free-port, which will present very good prospects and will be in a more favorable position than the free harbors of Bremen and Hamburg.

BRAZIL.—Bids for furnishing the San Francisco R. R. Co. with 5,000 tons of soft coal yearly are wanted at once. The company also wants catalogues, etc., of structural iron. Miguel de Teive e Argollo, Gen. Mgr. and Ch. Engr., Alagoinhas (Bahia), Brazil.

CHINA.—As China has determined to increase its fleet by the addition of larger vessels, and the Foo Chow docks being too small, it has been decided to construct modern new docks at the port of Santu. It is stated that work will be begun as soon as sanction is received from the throne. It will be capable of docking vessels of about 9,000 tons. H. E. Cheng-chi, Imperial Comr. Arsenal and Docks at Foo-Chow.

STOCKHOLM, SWEDEN.—In the Swedish Budget, which calls for nearly 150,000,000 kroner, King Oscar asks for 46 new batteries of artillery by the end of 1903. About 100,000 new Mausers are to be manufactured and 50,000,000 cartridges to be in store within four years. Another 1/2m in the budget is the railway appropriation of 20,000,000 kroner, one-fourth of which is to be applied to the purchase of new rolling stock.

BRUSSELS, BELGIUM.—Bids are wanted by the Minister of Railways, Posts and Telegraphs for supplying 2,000 freight cars, divided into 41 lots.

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