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PERSONAL.

- Mr. S. T. Hayt, M. Am. Soc. C. E., has resigned his potion as City Engineer of Corning, N. Y.
- Mr. James S. Martin has resigned his position as Chief e municipal engineer of Toiedo, O., to take up the practice of law.
- Mr. George Butler, of Montana, has been appointed uperintendent of irrigation on the Wind River Indian resvation, Wyoming.
- Mr. Homer J. Parker, of Albion, N. Y., has accepted as instructor in mechanical engineering in the Lewis Institute of Chicago.
- Mr. J. P. Spindle, of Washington, D. C., has received an appointment under the Isthmian Canal Commission, and will shortly sail from Norfolk, Va., on the U. S. S. "Scorpioa," to take charge of an exploration party on the isthmus of Darlen

Signor Guglielmo Marconi, the inventor of a system of signor engineems stateon, the investor of a system of wireless telegraphy, has returned to Europe. He is said to have sold his American rights in wireless telegraphy. He is shortly to start for South Africa, where his system of communication will be tried in actual warfare.

- Mr. J. J. Albright, of the Class of '68, of the Rensselaes Polytechnic Institute, who is now president of the Union Car Co., and of the Depew Improvement Co., of Buffaio, N. Y., has presented to that city for its botanical garden his conservatory, containing many tropical plants, and valued at \$40,000.
- Mr. W. G. Brimson, General Manager, and Mr. E. M. Collins, Chief Engineer, of the O., K. C. & E., O. & S. L., and K. C. & N. C. R.R. companies, have removed to offices at the Syndicate Building, Kansas City, Mo. Mr. E. H. Shaufler, recently appointed Assistant General Manager, will be located at Quincy, Ill.

Lieut. Robert McGregor, Corps of Engineers, U. S. A., stationed at Little Rock, Ark., has been promoted to a captaincy, and Second Lieut. F. W. Aistaetter, stationed at willets Point, N. Y., has been made a first lieutenant. These promotions result from the vacancy caused by the dismissal of Capt. O. M. Carter.

Mr. Frederick J. Cross, formerly of Niagara Falls, N. Y., is now in New York city, in the interest of Cotton, Neill & Co., engineers of Honolulu, H. I., on a special errand to confer with Signor Marconi regarding the wireless telegraphy system, with a view of making arrangements for its adoption by the government of Hawaii.

Mr. S. W. Stratton, recently assistant professor of physics in the University of Chicago, has been appointed director of the United States Bureau of Weights and Measures, under the Geodetic and Coast Survey. He was grad-uated in 1884, in mechanical engineering, from the Uni-versity of Illinois, and then became an instructor in physics in that institution.

Mr. Wm. G. Cramp, dockmaster for the Cramp Shipbuilding Co., of Philadelphia, has retired from active business. He has heen connected with the company for over 50 years, and is now 76 years old. For many years he has had entire charge of all the docking opera-tions, and is to be credited with the successful handling of every Cramp-hullt ship placed in dry-dock at the yards or League Island.

Mr. Frederick H. Lewis, M. Am. Soc. C. E., recently of the firm of Booth, Garrett & Blair, of Philadelphia, has been appointed manager of the Virginia Portland Cement Co., vice S. H. Chauvenet, resigned. This company owns a large property near Cralgaville, Augusta county, Va., and is building a modern Portland cement factory there from plans prepared by Mr. Lewis, as consulting engineer, prior to his recent appointment. New York capital is interested in the enterprise. The offices of the company are at 81 Fulton St., New York city.

Col. J. W. Barlow, U. S. A., inspector of northwestern government improvements; Capt. H. M. Chittenden, recently appointed to succeed Captain Sanford as engineer charge of the Missouri River Improvementa above Sloux City; and Senor Jacobo Blanco, a civil engineer of Mexico, supervising the work of improving the Mexican side of the Rio Grande, are at Yankton, S. Dak., inspecting the government work now heing done on the Missouri River op-posite and above that city. Senor Blanco is making a tour of the northwest in company with Colonei Barlow.

Mr. John C. Trautwine, Jr., Assoc. M. Am. Soc. C. E., in Nov. 10, resigned his position as Chief of the Water Bureau of Philadelphia, which he has filled since 1895. In his letter of resignation Mr. Trautwine expresses his dissent from the plan for the filtration of the city's en-

tire water supply recently recommended by the Board of Engineers, and urges instead the adoption of filtration combination with effective measures of waste prevention in one district of the city. In this way, he thinks, the consumption could be so reduced that a much smaller consumption could be so reduced that a much smaller filtering plant than that now contemplated would suffice for the entire supply. In commenting upon Mr. Traut-wine's resignation, the Philadelphia "Ledger" says:

The city sustains a real loss by this resignation, Mr. Trautwine is a thoroughly capable engineer seminently trustworthy. Mayor Asbbridge may find so one to succeed him who will be more affable to counnen, less outspoken and fixed in his opinions, and, the fore, better capable of "getting on" with the Administ tiou, but he is not likely to find a more capable and truworthy engineer.

The following changes in positions have recently b The following changes in positions have recently been made by graduates of the Rensselaer Polytechnic Institute of Troy, N. Y.: Mr. A. M. Miller ('95), is assistant superintendent of the Ohio Mine, at Virginia, Minn.; Mr. F. E. Platt ('79), is president of the Eik Hiil Coai & Iron Co., and of the N. Y. & Serauton Coal Co., at Scranton, Pa.; Mr. Leonard M. Cox ('92), eivil engineer, U. S. Navy, is in charge of the rebuilding of timber drydock No. 2, at the Brooklyn Navy Yard; Mr. Francisco de A. Cintra ('St) is director of the municipal works of Brag-A. Cintra ('SI), is director of the municipal works of Brag-anea, Brazil; Mr. F. L. Clark ('80), is manager of the American Steel Hoop Co. of Pittshurg; Mr. W. D. Card ('90), is a banker with offices at 86 La Saile St., Chicago, III.; Mr. Chas. E. Birch ('92), is with Matthew, Addy & Co., iron brokers, of Philadelphia; Mr. J. M. Wilson ('87), is state engineer of Nebraska; Mr. A. L. Hopkins ('92). is assistant to the general superintendent of the Newport News Ship Building & Dry-Dock Co.; Mr. Henry G. Morse (*71), is president of the New York Ship Building Co., with offices in the Witherspoon Building, Philadeiphia, and Mr. William F. Gronau (87), is an engineer with the same company; Mr. Thomas Appleton (68), is chief engineer of the Copper Range Railroad Co., with headquarters at Houghton, Mich.; Mr. Seymour Cunningham (84), is Houghton, Mich.; Mr. Seymour Cunningham ('84), is president of the City Electric Railway Co., of Rome, Ga., with headquarters at Washington, D. C.; Mr. S. B. Low ('78), is manager of the Jersey City Packing Co.; Mr. H. B. Voorhees ('96), is assistant train master of the P. & N. Y. Division, Philadelphia & Iteading Ry., with offices at the Iteading Terminal, Philadelphia; Mr. S. T. Davis, Jr. ('95), is treasurer of the Locomobile Co. of America with offices at Newton, Mass.; Mr. Harry L. Van Zile ('84), is president of the Franklin Boller Works of Troy, Y.; Mr. Horace D. Halght ('98), of Booth, Garrett & Blair, Philadelphia, Pa., has been appointed resident en-gineer in charge of the William Krause & Sons Cement Co.'s plant at Martins Creek, Pa.

OBITUARY.

Col. William F. Durant, formerly a prominent railroad contractor and builder, died on Nov. 5 at Chicago

Col. J. J. Moore, who during the Civil War was Chief Engineer and Superintendent of the Military Roads of Virginia, died suddeuly lu Philadelphia, on Nov. 9.

Mr. Clarence A. Carpenter, Assistant Engineer of the Lake Shore & Michigan Southern R. R., died on Nov. 9, at Cleveland, O., from Injuries received by heing struck by a train at Saybrook, O.

Mr. Robert Fox, manager of the electric road hetween Chester, Pa., and Wilmington, Del., died Nov. 3, at his home in Meadville, Pa. Mr. Fox was 34 years old and a graduate of Allegheny College.

Mr. Frank B. Ciark, formerly City Englueer of Oswego Falis, N. Y., and Mr. Oliver C. Mimmack, a graduate of the Rensselaer Polytechnic Institute, in the Class of '98, are reported to have been drowned at Manchuca Falls, Niearagua, while employed by the United States Caual

Mr. C. B. Johnson, senior member of the firm of John-Mr. C. B. Johnson, senior member of the firm of Johnson & Wilson, Portland cement dealers, of 45 Broadway, New York city, died of pneumonia at his home on Nov. 5. Mr. Johnson was born in Westfield, Mass., in 1842, and organized the above firm in 1876. He was also a member of the firm of Wilson & Ballie, of Brooklyn, N. Y., and of the Bullding Material Exchange. His firm was the first to introduce American Portland cement.

Mr. William Scollay Whitwell, one of the oldest of New England civil engineers, was hurled on Nov. 7 at Boston. The services were conducted by Dr. Edward Everett Hale, an old friend of the deceased. Mr. Whitwell was born at Augusta, Me., in 1809, and graduated from the Lawrence Scientific School in 1830. His first work was done on the He was afterwards connected with the Concord R. R. Concord R. R. He was afterwards connected with the Western & Atlantic R. R., the road from Talahassee, Fla. to the east coast, and most notably, the Cocnituate Water works of Bostou. The later years of his life were spen in travel abroad, including a journey through Egypt with Ralph Waido Emers

Gen. Thomas W. Hyde, principal owner of the Bath Me.) Iron Works, died at Old Point Comfort, Va., on Nov. 14. Gen. Hyde was born in Florence, italy, in 1841, his parents being natives of Bath, Me., where he was brought up. He graduated from Bowdoin College in 1881, hrought up. He graduated from Bowdoin College in 1881, and later from Chicago University. Early in the civil war he was commissioned captain in the 7th Maine, and soon after hecame major. He served in the Sixth Corps of the Army of the Potomac during the last year of the war, and was with Gen. Sedgwick when the latter was killed at Spottsylvania. He was granted a medal hy Congress for exceptional hravery in leading the "wedge" assault, which followed the fall of Richmond. After the war Gen. Hyde returned to Bath with the rank of Briga-dier-General of Volunteers, and leased the Bath Iron Foundry, employing seven men. This foundry later be-came incorporated with the Bath Iron Works, of which

Gen. Hyde became general manager in 1888. He has held the offices of State Senator, President of the Senate, Mayor of Bath, Member of the Board of Visitors at the Military Academy at West Point, and Member of the Board of Managers of the Soldiers' Orphans' Home at

ENGINEERING SOCIETIES.

COMING GENERAL MEETINGS.

COMING GENERAL MEETINGS.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.

Nov. 16 and 17. Annual meeting at New York. Secy., Francis T. Bowles, 12 West 31st St., New York city. NEW JERSEY SANITARY ASSOCIATION.

Dec. 8 and 9. Annual meeting at Atlantic City, N. J. Secy., J. A. Exton, Arlington, N. J. MICHIGAN ENGINEERING SOCIETY.

Jau. 2, 1900. Annual meeting at Kalamazoo, Mich. Secy., F. Hodgman, Climax, Mich.

COMING LOCAL MEETINGS.

NEW YORK RAILROAD CLUB.

Nov. 16. At New York city. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

CHICAGO ELECTRICAL ASSOCIATION.

Nov. 17. Secy., Cloyd Marshall, 1310 Monon Bldg., Chlcago, Hi.

ENGINEERS' CLUB OF COLUMBUS.

Nov. 18. Secy., H. M. Gates, 12½ North High St., Columbus, O.

Nov. 18. Secy., H. al. Called A. Secy., Albert S. Hovey, Helena, Nov. 18. At Helena. Secy., Albert S. Hovey, Helena,

NOV. 18. At Helena. Secy., Albert S. Hovey, Helena, Mont.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.

Nov. 21. At Pittsburg. Secy., R. A. Fessenden, 410
Penn Ave., Pittsburg. Pa.
WESTERN RAILWAY CLUB.
Nov. 21. At Chicago. Secy., J. W. Taylor, 667 The
Rookery, Chicago, Ill.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Nov. 22. Secy., S. E. Tinkham, City Hall, Boston, Mass.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
Nov. 28. Secy., W. H. Searles, Case Library Bidg.,
Cieveland, O.

CIVIL ENGINEERS' CLUB OF CLEVELAND.

Nov. 28. Secy., W. H. Searles, Case Library Bidg.,
Cleveland, O.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Dec. 1. At San Francisco. Secy., O. Von Geldern, 819
Market St., San Francisco, Cal.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Dec. 4. At Buffalo. Secy., H. J. March, Library Bidg.,
Buffalo, N. Y..

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 5. At New York. Secy., Francis E. Frothingham,
12 W. 31st St., New York city.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Dec. 6. At New York. Secy., C. W. Hunt, 220 W. 57th
St., New York eity.

ENGINEERS' SOCIETY OF WESTERN NEW YORK

At the meeting of Nov. 6, Mr. Howard A. Carson, M. Am. Soc. C. E., of Boston, delivered an interesting lecture, entitled "An Excursion to Europe and Egypt," accompanied by stereopticon views. The lecture was greatly appreciated. The society will hold its fifth annual meeting at Buffalo on Dec. 4.

THE ENGINEERS' CLUB OF PHILADELPHIA .- At THE ENGINEERS' CLUB OF PHILADELPHIA.—At the regular meeting of the club, on Nov. 18, a paper on "The Atbara River Bridge" will be presented by Richard Khuen, Jr. At the meeting of Nov. 4 Prof. Wm. H. Burr gave a lecture on "Long-Span Bridges." The stresses and disposition of the metal in long-span simple truss hridges were first considered, and the statement was made while this type has not yet reached 600 ft., it possible that in a few years this length may be greatly possible that in a few years this length may be greatly exceeded. The adaptability of the cantilever for long spans was next discussed and its disadvantages were explained. The stiffened suspension bridge was then considered in some detail, and its similarity to a stiffened arch in the matter of analysis was pointed out. The special features of each of these types were illustrated by diagrams and photographic views of bridges, projected by the electric lantern. At the close of a general discussion, which was participated in by Messrs. Edgar Marhurg, James Christle and John Stirling Deans, a vote of thanks was tendered to Prof. Burr for his kindness in presenting this matter before the club. L. F. Rondinella, Secy.

NEW PUBLICATIONS.

RELATIVE APPLICABILITY OF SAND AND MECHAN-ICAL FILTERS.—By Geo. W. Fuller, Reprinted from The Journal of New England Water-Works Associa-tion, Vol. XIV., No. 1. Paper; 6×9 lns.; pp. 32-53. Address the Author, 220 Broadway, New York city. The paper here reprinted is accompanied by remarks on

the same general subject by Mr. Allen Hazen, Desmond FitzGerald and Prof. W. T. Sedgwick.

ASTERIONELLA; ITS BIOLOGY, ITS CHEMISTRY AND ITS EFFECTS ON WATER SUPPLIES.—By Geo. C. Whipple and D. D. Jackson, Department of Water Supply, Brooklyn, N. Y. Reprinted from The Journal of the New England Water-Works Association, Vol. XIV., No. 1. Paper; 6 × 9 ins.; pp. 25; Illustrations. Address the Authors.

Asterionella, the authors state, is one of the microscopic regarisms that gives rise to had tastes and odors in vater. Not long ago it gave rise to much trouble in The general character of the paper is indicated Brooklyn. by its title.

TEST OF A MECHANICAL FILTER INSTALLED by the New York Fliter Manufacturing Co., of New York, for East Providence, R. I. Reports by Prof. John H. Appleton, Gardner T. Swarts, M. D., and Edmund B. Weston, Consuiting Engineer. Paper; 6 x 9 ins.; pp. 16; tables and one folding plate. Address the New York Filter Manufacturing Co., 26 Cortlandt St., New York City.

This test was described in Engineering News of July 2 1890 in an article by Mr. Weston, Much. the same

3, 1899, in an article by Mr. Weston. Much the same information was also given by Mr. Weston in a paper read hefore the American Society of Civil Engineers, on Nov. 1. The pamphiet, however, contains the original detailed reports on which the other papers were founded. WATER-RIGHT PROBLEMS OF BEAR RIVER.—By Clarence T. Jobnston and Joseph A. Breckons. Bulletin No. 70, U. S. Department of Agriculture, Office of Experiment Stations, A. C. True, Director. Paper; 6×9 ins.; pp. 40; illustrations and tables.

This is one of a series of useful bulletins being issued under the direction of Mr. Elwood Mead, Expert in Charge of Irrigation investigations.

of irrigation investigations. The Bear River is an inter state stream, running through Wyoming, Utab and Idabo. Mr. Johnston describes the water supply and irrigation features and Mr. Breckons discusses the interstate water rights. There is a large folding map of the river, ditches and irrigated land, and some good reproductions of pho-tographic views of the river, irrigation works and other related subjects

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalognes recomtrended by all the principal engineering societies of the United States are: $3\frac{1}{2} \times 6 \ln n$, $6 \times 9 \ln n$, and $9 \times 12 \ln n$)

VALVES.—Sweet & Doyle, Cohoes, N. Y. Pp. 1; 9×12

This sheet presents a view and brief description of an adjustable wedge valve now being made by the Vincent Valve Co., of Owosso, Mich., for whom Sweet & Doyle sre acting as sgents.

CENTRIFUGAL PUMPING MACHINERY.—Kingsfor1 Foundry & Machine Works, Oswego, N. Y. Paper; 6 × 4 lns; pp. 22; filustrated. Besides belt and steam-driven centrifugal pumps this

catsiogne mentions boliers of its own make and specials onnecting up its plants.

COMPRESSED AIR MOTOR CARS.—Compressed Air Motor Co., 1033 Monsdnock Block, Cblcago, III. Psper; 6×9 ins.; pp. 21.

The pamphlet contains a description and illustrations of the cars on the Hardie system now in operation at Chicago and New York. The Hardie compressed air locomotive, iliustrated in our commns some time ago, is also shown.

CONCRETE AND ASPHALT MIXING MACHINERY.— Drake Standard Machine Works, 300 Jackson Bonle-vard, Chicago, Ill. Paper; 6×9 ins.; pp. 23; illus-trated.

The mixing machines shown include special mixers of various designs for courrete, mortar and asphait. The concrete mixers have been extensively used on the Chicago track elevation work.

DRAWING TABLES.—John Svenson, Mechanicai Engineer, 738 Warren Ave., Chicago, Ill. Paper; 5×6% ins.; pp. 12; Illustrated.

These tables have adjustable drawing boards, with balanced ruler moving in guides, and are of different sizes and types. Separate drawing boards, fitted with rulers sliding in grooves (to replace the T-square), are also

HYDRANTS AND VALVES.—Prospectus of The Gear Hydrant & Supply Co., 136 West Broadway, New York City. Paper; 8 × 12 ins.; pp. 10; illustrations. This prospectus includes a description of the Gear fire

hydrant, valve and hose coupling, as well as an offer of the stock of the company named, which has recently been organized with Mr. Hugh Bonner, ex-Chief of the New York Fire Department, as president.

MUNICIPAL MACHINERY.—F. C. Austin Mfg. Co., Chicago, Ill. Paper; 11 × 8 ins.; pp. 76; illustrated.

Rock crushers, portable engines, road rollers, road machines, dump wagons, street sprinklers and sweepers, plows, scrapers and ditchers are described and illustrated in this catalogue. A supplementary pampblet gives more detailed information regarding the sprinklers and sweepers made by the same company.

PLUMBING AND STEAM BRASS AND IRON GOODS.—
The Haydeuville Co., Haydenville, Mass. Paper; 3½
x & lns.; pp. 68; Illustrated.
This is a priced catalogue of all sorts of brass and iron cocks, valves and other supplies used in plumbing and steam fitting. The same firm issues a supplementary catalogue, 16 pages, devoted to small lift and force pumps, yard hydrants and Pennic's sewer gas and backwater traps.

STREET RAILWAY TRACK CLEANER.—The Power Track Cleaner Co., 63 Bay St., Toronto, Canada. Paper; 4% x P ins.; pp. 8; illustrated.

The device is attached to the truck frame and has a steel finger to cut ice or frozen mud from the groove or flangeway of the rail, and also a biade to clean the bead of the rail, while an extension of this blade throws snow back from the track. The device is in use at Toronto, where the group excellent results. where it bas given excellent results.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PEND	ING
WITH DATE OF OPENING BIDS.	
Rids to be	see Eng.
opened Work. Place.	News.
Nov 16. Plumbing, West Point, N. Y	.Oct. 19
Advertised Eng News, Oct. 19 to Nov. 9.	
Nov 17 Reservoir work, Boston, Mass	Oct. 19
Advertised Engineering News, UCL 19.	
Nov 17 Surface soil. Clinton, Mass	Nov. 2
Advertised, Eng. News, Nov. 2 and 9.	
Nov. 17. Artesian weil, Fort Mott, N. J	Nov. 9
Nov 17 Water-works, Runcorn, England	NOV. 9
Nov 18 Plumbing, Newport, R. I	Nov. 9
Advertised Engineering News, Nov. 9.	
Nov. 18. Army quartera, Brooklyn, N. Y	NOV. 2
Nov. 18. Sewers, Wilkesbarre, Pa.	NOV. 2
Advertised, Kng. News, Nov. 2 and 9.	
Nov. 18. Heating, etc., Norfolk, Va	. Oct. 26
Nov. 18. Paving, Washington, D. C.	Nov. 10
Advertised, Engineering News, Nov. 16.	0-4 00
Nov. 20. Iron pipe, Giasgow, Scotland	Oct. 20
Nov. 20. Dredging, Delaware, River, Pa	. OCL. 20
Advertised, Eng. News, Oct. 26 to Nov. 16	Non 9
Nov. 20. Cement and sand, Washington, D. C	NOV. 2
Advertised, Eng. News, Nov. 2 and 9.	New 0
Nov. 20. Work house, Southampton, England	Nov. 16
Nov. 20. Board walk, Atlantic City, N. J	Nov. 16
Nov. 20. Wells, Hull, England	Nov 16
Nov. 20. Paving, Harlem, Ill.	Nov 16
Nov. 20. Sewers, Albany, N. Y	10

Nov. 20. Garbage disposal plant, Brookline, Msss. Nov. 16 Nov. 20. Steam heating, Brooklyn, N. Y Nov. 16 Nov. 21. Church building, Gonzales, Tex Nov. 16
Nov. 20. Steam heating, Brooklyn, N. Y
Nov. 21. Church bullding, Gonzales, Tex
Nov. 21. Street cleaning, etc., Jersey City, N. J Nov. 16
Nov. 21. Trigo school, Joliet, III
Nov 21 Pleatele apparatus N. V. Nov. 16
Nov 21 Bridge Chilleothe Mo
Nov 21 Stebles West Doint N. V.
Nov. 21 Stone St. John's River Fla. Nov. 2
Advertised, Eng. News, Nov. 2 to 16. Nov. 22. Dredge. Montgomery. Ala. Oct. 26
Advertised, Eng. News, Oct. 26 to Nov. 16. Nov. 22. Public comfort building. New York, N. Y., Oct. 26
Nov. 22. Army barracks, Willets Point, N. YOct. 26 Advertised, Eng. News, Oct. 26 to Nov. 16.
Nov. 22. Electric lighting, Norfolk, VaOct. 19 Advertised, Eng. News, Oct. 19 to Nov. 16.
Nov. 22. Laundry building, Boston, Mass
Nov. 22. Condenser plant, Middlebrough, England. Nov. 2
Nov. 22. Paving and water mains, Chicago Nov. 16
Nov. 23. Electric lighting, Philadelphia, Pa Nov. 16
Nov. 24. Armory Improvements, New York, N. Y Nov. 16
Nov. 24. Removing snow, etc., Brooklyn, N. Y Nov. 16
Nov. 24. School addition, South Framingham, Mass. Nov. 2
Nov. 24. Crematories, Minneapolls, Minn
Advertised Pro News New O to 10
Nov 25 Water-works Baltimore Md Nov 0
Advertised Fra News New O and 16
Nov 25 Water ments Details Ohio Nov. 9 and 10.
Advertised Engineering News New 16
Now 95 Flootele light piont Detayle O Now 16
Advertised Engineering News Nov 16
Nov. 25 Rails fighnlates etc. Glasgow Scotland Nov 16
Nov. 25. Street Improvements, Alexandria La. Nov. 16
Nov. 27. Street improvements Cincinnati O Nov 2
Nov. 27. Court house, Atlanta, Ga. Oct 5
Nov. 27. Dredging, Harlem River, N. V. Oct. 26
Advertised, Eng. News, Oct. 26 to Nov. 16.
Nov. 27. Public lighting, Toledo, O
Nov. 27. Electric plant, Essex, England,
Nov. 27. School bouse, Brooklyn, N. Y
Nov. 27. Lumber and bldg, alterations, New York., Nov. 16
Nov. 27. Garbage disposal plant, Jollet, Ill
Advertised, Englueering News, Nov. 16.
Nov. 28. Sewers (31/2 mlles), Tarboro, N. C Nov. 9
Advertised, Engineering News, Nov. 9.
Nov. 28. Irrigation franchise, Anabeim, Cal Oct. 26
Nov. 28. Dredging, Everett Harbor, Wash Oct. 5
Now 20 Court house Discrete Miss. Nov. 16.
Nov. 28. Court house, Pipestone, Minn
Nov 80 Rebuilding wheef Buffele N V Nov 9
Advertised Engineering News Nov 9
Nov. 30, Market plans, Nassau, Bahamas Sept. 7
Nov. 30, Water supply. St. Agnes. England Nov. 9
Nov. 30, Generators, Newcastle-on-Type, England, Nov. 9
Nov. 30. Rallway (71/2 mls.), Dornock, Scotland. Nov. 16
Dec. 1. Pumpg eng. (1,000,000 gails.), Dayton, O., Nov. 16
Dec. 1. Electric plant, Gallatin, Tenn
Dec. 1. Bridge, Seattle, Wash
Dec. 1. Garbage cremstorles (2), Galveston, Tex. Nov. 16
Advertised, Eng. News, Nov. 16 to 30.
Dec. 1. Electric plant, Christianburg, Va Nov. 16
Dec. 1. Stone wall, San Francisco, Cal 9
Dec. 1. School house, Asbland, Ore
Dec. 1.School house, Asbland, Ore
Dec. 1. School house, Asbland, Ore. Nov. 9 Dec. 1. Dredging, New Jersey Nov. 2 Advertised, Eng. News, Nov. 2 to 23. Per. 1. Bridge Caldwell Udaho Nov. 2
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Dec. 1. School house, Asbland, Ore. Nov. 9 Dec. 1. Dredging, New Jersey
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Dec. 1. School house, Asbland, Ore. Nov. 9 Dec. 1. Dredging, New Jersey Nov. 2 Advertised, Eng. News, Nov. 2 to 23. Nov. 2 Dec. 1. Bridge, Caldwell, Idabo. Nov. 2 Lec. 1. Increased water supply, Fort Worth, Tex. Nov. 2 Advertised, Eng. News, Nov. 2 and 9. Dec. 2. Canal construction, Chicago, Ill. Nov. 9 Advertised, Eng. News, Nov. 9 to 23. Dec. 4. Timber, Ottawa, Ont. Oct. 26 Dec. 4. Water bonds, Los Angeles, Cal. Oct. 26
Dec. 1. School house, Asbland, Ore. Nov. 9
Dec. 1. School house, Asbland, Ore. Nov. 9
Dec. 1. School house, Asbland, Ore. Nov. 9
Dec. 1. School house, Asbland, Ore. Nov. 9
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Dec. 1. School house, Asbland, Ore. Nov. 9
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RAILWAYS.

ATLANTA BELT.—A. & C. Wright & Co., Richmond, Va., are reported to bave secured the contract for constructing 5½ miles of main line and 1½ miles of sliding for this proposed railway around Atlanta, Ga. Work is expected to be completed in six months, at an estimated cost of \$175,000. Geo. C. Smith, Pres., Atlanta.

BELINGTON & BEAVER CREEK.—This company bas been incorporated in West Virginia, according to reports, with a capital stock of \$2,000,000, to build from Belington, W. Va., to a point on Beaver Creek, and thence to Staunton, Va. Charles Bradenburg and F. B. Rease, of West Virginia; W. R. Kramer, of Pennsylvania, are incorporators.

corporators.

BOSTON & MAINE.—This company and the Boston & Albany R. R. Co. have agreed with the city of Boston upon the appointment of Geo. W. Wiggin, Wm. B. French and Edward P. Bishop as a commission to see to the abolition of the East Boston grade crossings; estimated cost, \$1,500,000.

BURLINGTON & MISSOURI RIVER.—Repthat permanent surveys are being made throughtar permanent surveys are being made throughtar the kiver Canon for a line to run from a the Laramie pisits and the Elk Mountain owned by this company. The construction or through the canon will be very difficult. For the walls of the canon rise perpendicularly from bed, and for much of this distance it will be in blast out a roadbed from the solid granite. The blast out a roadbed from the solid granite. The blast out a roadbed from the solid granite in the canon keeping curves to the lowest possible number point a stone arch will be built over the another the course of the river will be diverse another the course of the river will be diverse another the course of the river will be diverse another the course of the river will be canon will be course of construction through the canon will be companie. The route is said to be the shortest the main range of the Rockies. G. W. Holden Mgr., Omaha, Neb. BURLINGTON & MISSOURI RIVER -R hat permanent surveys are being made through

Mgr., Omaha, Neb.

CAROLINA NORTHERN.—E. K. Proctor, Jr., of CAROLINA NORTHERN.—E. K. Proctor, Jr., of Carolina, N. C., informs us that 14 miles and graded on this new line from Lumberton to Managraded on this new line from Lumberton to Managraded on this new line from Lumberton to Managraded on this new line of track has been laid to Lumberton to the Lumberton to the Limber is about to and track-laying will then be pushed rapidly on the contract for construction has not yet been laid to the contract for construction has not yet been laid to the contract for construction has not yet been laid to the contract for construction has not yet been laid to the contract for construction of this line from Cheraw to Lancaster, via Ruby and H. S. C., about 50 miles. Partial surveys have been CHICAGO, ROCK ISLAND & PACIFIC.—We CHICAGO, ROCK ISLAND & PACIFIC.—We

The full capital for construction has not yet been CHICAGO, ROCK ISLAND & PACIFIC.—We formed that surveys are now in progress for an e of this line west from Kingfisner, Okia. W. E. Ch. Engr., Chicago, Ill.

CHOCTAW & MEMPHIS.—F. A. Molitor, Ch. Little Rock, Ark., informs as that this new it mansfield to Little Rock, via Boouville, Danville, thouston, Ark., 166 miles, has been completed, it schedule trains will be funning from Memphis, it Weatherford, Okia., 568 miles, by Dec. 1. Fr. Gowel, Pres., Philadelphia, ra.

DANVILLE & WENTERN.—G. K. Griggs Go.

Weatherford, Okia. 508 miles, by Dec. 1. France in Gowen, Press, Philaderphia, Pa.

Danville, & Westfern.—G. K. Griggs, Gen Supt. Danville, Va., informs us that this road win on made broad gage from Danville, Va., to Leaksville, N. C. 25 miles. The ties have been placed and the rails are now being awaited. The old narrow gage will be left and a third rail laid. A. B. Andrews, Fres., Raleigh, N. C.

DELAWARE VALLEY & KINGSTON.—This company was incorporated in New York, Nov. 10, with a capital stock of \$2,500,000, to construct \$1 miles of standard gage railway, to be operated by steam or electric power, from Kingston, N. Y., to a point near Lackawaxen, Pa. It is said that the road will probably toliow the line of the abandoned Delaware & Hudson Canal, which was soid to \$5. D. Coykendail, Kingston. W. V. S. Horne, Vice-Pres. of Pennsylvania Coal Co., Washington Bidg., New York, its President; Chas. E. Webster, Cb. Engr.

GRAND RAPIDS, BELDING & SAGINAW.—W. II. Clark, Ch. Engr., Lowell, Micn., informs is that this line will be completed from Lowell to Bedding, I7 miles, by Dec. 1. Thomas Hefteren, Press., Grand Kapids, Mich. GRAND TRUNK.—Joseph Hobson, Ch. Engr., Montreal, Que., informs us that the construction of a second track is in progress on this system between Ste. Anne's and Vaudreuil, Que., 3% miles. A second track is also under way between Sthey and Murray Hill, 7% miles. The principal work remaining to be done is the completion of the bridges, which is being held back by reason of the want of steel from the rolling mills.

Highland,—Bids are asked until Nov. 30 for constructing this line from Mound Station to Dornock, Soct-

want of steel from the rolling mills.

HiGHLAND.—Bids are asked until Nov. 30 for constructing this line from Mound Station to Dornock, Scotland, 7½ miles. Wm. Roberts, Ch. Engr., Inverness, Scotland; Wm. Gowenlock, Secy.

MANSFIELD SHORT LINE.—Riggs & Sherman, The Nasby, Toledo, O., are reported to nave been appointed chief engineers of this proposed line from Lucas to Shelby, Via Mansfield and Springfield, O., 19 miles. Active work as expected to begin soon. C. W. French, Pres., Mansfield, O.

field, O. —J. H. Holmes and W. S. Wright, of Pasadena, Cai., are reported to have been granted a concession from the Mexican government for a steam railway to be about 25 milea long. —Reports state that the syndicate of American capitalists which was recently organized under the laws of New Jersey, with a capital of 87,000,000, has acquired the Northern Mexican R. R., which runs from Escalon, on the Mexican Central road, to Sierra Mojada, in the State of Chibuahua. The line is to be immediately extended to Monterey, where it will connect with the Montercy & Mineral Belt Ry., which was recently purchased by the ayudicate. Robt. S. Towne, Min Engr. and Fres. and Gen. Mgr. Northern Mexican Ry., Mexico City, Mex., and 44 Pine St., New York, is interested.

MINNEAPOLIS & ST. LOUIS.—H. G. Kelley, Ch. Engr., 1124 Guaranty Loan Bldg., Minneapolis, Minn., informs us that grading is about completed on this new extension from New Ulm, Minn., to Storm Lake, Ia., via St. James and Sberburn, Minn., and Estberville, Speucer and Slotx Rapids, Ia., 123 miles. Track-laying is in progress from three points, and bridging is nearly completed. The principal contractors are Johnston Bros. & Faught, St. Elmo, Ill., and Jobn Scott & Sons, St. Louis, Mo. Edwin Hawley, Pres., 349 Broadway, New York.

MINNESOTA.—Reports state that a new logging railway is to be built in Lake county, Minn., for the purpose of handling 200,000,000 ft. of timber which the Merrili & Ring Lumber Co., Dulutb, Minn., bas recently purchased. The timber will be railroaded to Lake Superior and then refited to Duluth.

MISSOURI PACIFIC.—Surveys bave been begun for an

MISSOURI PACIFIC.—Surveys bave been begin for extension of the Jefferson City branch of this line free Eidon to Springfield, Mo. J. W. Way, Cb. Engr., Louis, Mo.—This company has just completed laying the steel rails between Kansas City and Leavenwort Kan. Next year it is proposed to relay the track betwee traffic.

MISSOURIE PACIFICATION OF THE PROPERTY OF THE PACIFIC PACIFICATION OF THE PACIFICATION OF TH

traffic.

MUSKOGEE, OKLAHOMA & WESTERN.—W. II. Herbert, Cleveland, Okla., writes us that survey work on the 200 miles of road from North Enid through Perry, Pase, cleveland and Muskogee to Talequah, has been suspended until spring. The capital is partly secured. It is not known when the contracts will be let. P. J. Byrne, Pres., Muskogee, Ind. Ter.; O. B. Gunn, Cb. Engr., Whitney Bldg., Kansas City, Mo.

ney Bldg., Kansas Clty, Mo.

NEW YORK, NEW HAVEN & HARTFORD.—The tract for masonry and filling on the line between Ma and Fairfield Ave., Bridgeport, Conn., has been o'Brien & Sheehan, 12th Aye, and 135th St., New st about \$500,000. The tracks will be run on a elevated structure from Main St. to the Pequonnock which will be spanned by a four-track drawbridge is the first step towards improvements to the principle of the property of the tracks of the property of the tracks of the property of the tracks of the property of

James Ritchie, Ch. Cy. Engr., Cieveland, O., In-us that the elimination of grade crossings in that under discussion, and that several plans have heen dd. A general plan is being made for the entire (Cleveland.

s us that the discussion, and that several plans have been ared. A general plan is being made for the entire in Cieveland.

RES MARQUETTE.—This compsny has been incorted in Michigan, with a capital stock of \$28,000,000. proposed to purchase the property and franchises of Pint & Pere Marquette. Detroit, Grand Rapids & Entire and Chicago & West Michigan systems, the whole chising 1,630 miles of line. S. T. Crapo, Saginaw. Charles M. Heald, Grand Rapids, Mich., and Fred-Nims, Muskegon, Mich., are directors.

EKINGHAM & WEST VIRGINIA.—Gen. Jas. S. Pres., 141 Broadway, New York, informs us that for constructing 200 miles of-road through Gordies Standardville, Elkton, Harrisonhurg and Frank-Va., is assured. Surveys sre partially made, and of way largely secured. Contracts bave not been let. Chapman, Ch. Engr., Harrisonburg, Va.

LUDA & JOHNSTON.—This company has formally med, and active work is expected to begin as soon point is secured. Alvin Etheridge, Pres.; Geo. C. Ser, Vice-Pres. The route is from Saluda to Johns. S. C., ahout 12 miles.

AS WESTERN.—This line running from Houston to Tex., 52 miles, has heen purchased by a Chicago leate and will be rechartered under the name of ston. Brazos & Northern Ry. It will be extended sealy in a northwesterly direction to Tishimingo. Ter., ahout 400 miles. Work will hegiu soon on the struction of the old Texas Western line from Houstos Sealy. R. M. Hall, Houston, Tex., is interested. HITE PASS & YUKON.—Reports state that this combate should be rechartered under the name of stone Brazos & Northern Ry. It will be extended sealy in a northwesterly direction to Tishimingo. Ter., ahout 400 miles. Work will hegiu soon on the struction of the old Texas Western line from Houstos Sealy. R. M. Hall, Houston, Tex., is interested. HITE PASS & YUKON.—Reports state that this combate should be rechartered under the name of the superchased nearly \$300,000 worth of steel rails, which to extend its line from Lake Bennett, Alaska, been delivered under rush orders to Lake Bennett, het weit he

YOUNGSTOWN & RAVENNA.—This company was incorporated in Ohio Nov. 4, with a capital stock of \$10,000, to construct a railway between Youngstown and Ravenne, O. J. T. Brooks, Pittsburg, Pa., and others of the Pennsylvania R. R. System, are directors.

STREET AND ELECTRIC RAILWAYS.

FORTLAND, ME.—The Portland, Scarhoro & Old Drebard R. R. Co. has petitioned the railroad commission for permission to build an electric line from Monument Square, Portland, a distance of 2.25 miles John W. Deering, Portland; Jesse G. Shaw, Biddelord, Me., and Geo. L. Haley, Saco, Me., are directors. BERLIN, N. H.—The Berlin St. Ry. Co. has heen incorporated with C. P. Day, Pres., and D. J. Daley, Seey. and Treas, to operate a standard-gage street railway, 4 it, in width, in this city. City Engineer Gifford is making surveys.

MEREDITH. N. H.—Local papers state that the work in the electric rallway from Meredith to Ossipee, for which a franchise was recently granted, will be begun ext spring and will be completed within two years, leing 20 miles in length. Dr. J. A. Greene, Moultonhoric; leorge W. Armstrong, Brookline, Mass.; A. Sbuman, locatin, Mass., and others are reported to be interested in a project.

the project.

NORTHBRIDGE, MASS.—The Linwood St. Ry. Co. has been incorporated, with a capital stock of \$12,000, to build from Whitin's Station, in this town, to Main and Maple Sts., 1½ miles. J. M. Lasell, Cik. and Treas.

MEDFIELD, MASS.—H. Gore & Co., Boston, Mass., are reported to have heen awarded the contract for constructing the proposed Medfield & Medway St. Ry. from the terminus of the Norfolk & Western Ry. to Medway, via Millis, seven miles. Hodges & Harrington, Engrs., Boston

Noston.

WARE, MASS.—The Ware St. Ry. Co. has been incor-torated, with a capital stock of \$45,000, to construct a ine from Hardwick to West Warren, via West Brook-ledd, Ware and Palmer, nine miles. Franklin Worcesten and M. L. Urann are directors.

ine from Hardwick to West Warren, via West Brookfield, Ware and Palmer, nine miles. Franklin Worcester
and M. L. Urann are directors.

GREENWICH, CONN.—Construction work is said to he
progressing rapidly on the Greenwich & Schuylerville
Electric Ry., and the company bas heen advertising for
additionsi lahor. Grading is ahout completed. The ahutments for the hridge to cross the Hudson River are ready
for a 900-ft. hridge of the Howe truss type. The power
house is heing erected on the mili race near the Bennington Fails Pulp Co.'s mill. Operation is expected to hegin
Jan. I. Addison B. Colvin, Glen Falls, N. Y., and Jos.
A. Powers, Lanslinghurg, N. Y., are promoters.

THOMPSON, CONN.—The People's Tramway Co., of
Killingly, successor to the Putnam & Thompson St. Ry.
Co., has heen granted its petition in regard to the extension of its lines from Thompson to North Grosvenordale.

HEMPSTEAD (L. I.), N. Y.—The Mineola, Hempstead
& Freeport Traction Co. was granted a franchise on Nov.
10 to operate a troiley road through this town. President
Newton, of the company, is quoted as stating that the
company will begin work within ten days, and proposes
to connect with the North Shore trolley line.

LITTLE FALLS, N. Y.—The franchise of the Little
Falls & Herkimer Street Ry. Co. has been extended by
the highway commissioners to Nov. 15, 1900, with conditions that the company hegin work by April 15.

NEW YORK, N. Y.—Bids are asked by the Rapid
Transit Commissioners, 320 Broadway, until Jan. 15, for
building the rapid transit tunnel, etc., from Broadway
and Park Row to Boston Road and Bronx Park. It will
take about five years to huild the tunnel, and is estimated to cost ahout \$35,000,000. Check, \$150,000; hond.

S.000,000, and a deposit in cash of \$1,000,000. Wm. B.
Parsons, Ch. Engr.; Alex. E. Orr, Pres.

CAMDEN, N. J.—The Monmouth Traction Co. has been
reorganized under the name of the Camden & Suhurhan
Ry. Co., hy which the latter company will extend its lines
to be the chief promoter.

MONTCLAIR, N. J.—The coun

be the chief promoter.

MONTCLAIR, N. J.—The council has passed the amended South End trolley franchise providing for the construction of an overhead system to Orange by the North Jersey St. Ry. Co. David Young, Vice-Pres.

MAUCH CHUNK, PA.—It is reported that the Carbon County Electric Ry. will soon he extended from the west and to Hackleharnie. Superinteudent Bonnell is now purchasing necessary material.

MEDIA, PA.—W. K. Karns, Reading, and Frank D. Dwight, Wilmington, are making surveys for the proposed extension of the Delaware County & Philadelphia Electric Ry. from Media to Aston Mills.

sildbleetown, PA.—Surveys are under way for the proposed extension of the Middletown & Rockdale Electric Ry. from Media to Ridley Creek and heyond. W. H. Karns, Engr., Reading, Pa.

SHARON, PA.—The Sharon & Wheatland St. Ry. Co., in which James S. Fruit, James P. Whitia and other local capitalists are interested, was granted a franchise by the council on Nov. 6 to run a road through this town.

WILMINGTON, DEL.—The Wilmington City Ry. Co-was granted the right of way on West St. from Market St. to the western limits of the city to construct a trolley line by the directors of the street and sewer department on Nov. 7.

FROSTBURG, MD.—R. B. Henderson, Marx Wineland and the Frostburg Electric Light Co. are said to be interested in the construction of an electric line hetween this town and Eckhart.

READING, O.—An ordinance was passed at the council meeting on Nov. 9 to advertise for bids for an electric road pyer the route established from Mill Creek bridge to Notre Dame Academy.

CARO, MICH.—Major Hoynton is quoted as stating that he work of laying out the proposed new trolley line from aro to Hay City will begin soon.

Caro to Bay City will begin soon.

SAGINAW, MICH.—Preliminary surveys have heeu made for the proposed Saginaw & Frankenmuth Electric Ry., to be 13 miles in length; estimated cost, \$130,000. Jas. R. Peters, Pres., Saginaw.

VICKSBURG, MICH.—Local papers state that the council has granted a franchise to the Grand Rapids-Kalamazoo Electric Car Line to operate its line in this village.

AURORA, ILL.—The first section of the Aurora, Yorkville & Morris Ry., between Aurora and Montgomery, was opened for traffic Nov. 6. It is proposed to extend this electric line to Yorkville in the spring. Senator Evans, of Aurora, and V. A. Watkins, Chicago, are interested.

VENICE, ILL.—The Granite City, Venice & East St. Louis Ry. Co. is reported to have been Incorporated, with \$125,000 capital stock, by Frederick E. Ailen, E. J. Spener and others.

JANESVILLE, WIS.—A. M. Einstein and S. L. Cienter.

IANESVILLE, WIS.—A. M. Einstein and S. L. Claus-en, Chicago, Ill., will ask for a franchise to operate an lectric road from Rockford, Ill., to this town. The coun-il is said to have favorably considered the matter, as the ranchise calls for the completion of the road by Dec. 1, 1900.

31, 1900.

DES MOINES, IA.—G. B. Hippee, Gen. Mgr. Des Moines
City Ry., is quoted as stating that the company proposes
to extend its line from Valley Junction to Commerce,
thence to Winterset and from there to Greenfield. Frank
Pelton has been cusaged by the company to survey and

MONTGOMERY CITY, MO.—The New Florence, Belle Flower & Middletown Electric Ry, Co. has been incorporated, with S80,000 capital stock. John W. Schowengerdt is president, and Howard Ellis is secretary of the new company, which will have a road 22 miles long in Montgomery country.

PINE BLUFF, ARK.—Local papers state that M. Roberts and John Georgian, of Independence, Mo., will ask the council for a franchise for huilding, equipping and maintaining an electric line and lighting plant for 15

pears.

DALLAS, TEX.—John H. Carter, New York, has petitioned for a franchise for operating a new electric street line to run to the northwestern suburbs.

DENISON. TEX.—The council will act at its next meeting on the franchise petitioned for by the Byers Investment Co. for operating an electric railway in this city for 50 years.

for 50 years.

LEADVILLE, COLO.—Thomas Carlon, Denver, Colo., said to represent Thomas Flynn, Omaha, Neh.; J. J. Brown, New York, and others, are planning for the construction of an overhead trolley system in this city from the Denver & Rio Grande R. R. station to Stringtown, with several branches.

PORTLAND, ORE.—The council on Nov. I received petitions for franchises from the Portland Ry. Co. and the City & Suburban Ry. Co. for extending their lines throughout the city and referred both to the committee on streets. The ordinance introduced by the Oregon & California R. R. Co. for a tranchise for a track on Front St. was also referred to the committee on streets.—The North Pacific Terminal Co. was granted a franchise to lay and operate a track on 13th St., from Front St. to Kearney St.

SAN JOSE, CAL.—The supervisors have granted a

SAN JOSE, CAL.—The supervisors have granted a franchise to A. Greeninger to construct an electric line on Ist St. and the Alviso Road to Alviso. Work must hegin within six months, and he completed within 18 months.

months.

DEMERERA, BRITISH GUIANA.—Reports state that SIr.W. C. Van Horne, ex-Pres. Canadian Pacific Ry. Co., Montreal, Que., and B. F. Pearson, Halifax, N. S., actinterested in a proposed electric railway in this city, to be 10 miles long. It is probable that F. S. Pearson, formerly Ch. Engr. Metronolitan St. Ry., New York, and now Supt. Sao Paulo Electric Light & Power Co., of Brazil, with an office at 621 Broadway. New York, is interested. The latter, it is stated, it about to let contracts for electrical equipment for the Sao Paulo line worth about \$600,000.

short \$600,000.

LONDON, ENG.—The London Electric Tramway Construction & Maintenance Co. and the British Electric St. Tramway Co. were incorporated at Dover, Del., Nov. II, the first with a capital of \$5,000,000. These companies will construct lines in London and in certain thickly populated districts in the county. Surveys and plans are being made by Alhert L. Johnson, of Brooklyn, a brother of Thos. L. Johnson, of the Nassau St. Ry. Co., Brooklyn, and of Cleveland, O.

L. Johnson, of the Nassau St. Ry. Co., Brooklyn, and of Cleveland, O.

GLASGOW, SCOTLAND.—Bids are asked until 5 p. m., Nov. 25, for furnishing 4,000 tons steel straight track rails, 400 tons steel curve rails, and 200 tons steel fishplates for the tramways. John Young, Gen. Mgr., 88 Renfield 8t. Glasgow; Sir J. D. Msrwick, Town Clk.—Reports stste that the tramway committee has recommended that the contract for 200 double motor car equipments, etc., he let to the General Electric Co., Schenectady, N. Y., at ahout \$300,000. Other hidders were the Dick, Kerr & Co., Ltd., Preston, Eng.: the Brush Electric Engineering Co., and Siemens Bros., London. Other contracts have been let, as noted in our issue of Nov. 2.

CADIZ, SPAIN.—Bids are asked by the city authorities until Dec. 7 for constructing an electric railway in this city, according to reports. It is also proposed to huild a line hetween Cadiz, San Fernando, Chichaua, etc. Reports also state that quite a number of the municipalities, assisted by the Chamher of Deputies, will huild street railways. A line is proposed from Montril to Granada. It is possible that J. Bro Garcia & Co., 167 Water St., New York, may he able to give Information.

ELECTRIC LIGHT AND POWER.

FAIRFIELD, ME.—The Waterville & Fairfield Electric Light & Ry. Co. has purchased the water privilege and mills of H. Totman & Sons, to secure additional water power.

NEWPORT, ME.—Reports state that W. S. Townsend will form an electric light company to furnish light to the town.

PORTSMOUTH, N. H.—The Portsmouth Gas & Electric Light & Power Co. submitted the only hid Nov. 9 for elec-tric lighting for five or ten years, which has been ac-

cepted.

ENFIBLD, MASS.—A new contract will be made with
the Enfield Electric Light & Power Co. for electric lighting, the last contract for five years with this company
expired Sept. 28. The lines will be extended and there is
some talk of changing from arc to incandescent lights.

WHITMAN, MASS.—The question of a municipal plant being considered by the board of trade. Benj. S. At-ood, Pres.

wood, Pres.

WATERBURY, CONN.—J. E. Sewell, Mgr. Counceticut Lighting & Power Co., writes us that the contract for the new installation at the plant has been let to the new England Engineering Co., Waterbury.

CLYDE, N. Y.—Reports state that a new company is being formed to supply this place with electric lights.

COHOES, N. Y.—A. B. Donaldson, Seey. and Treas. of the Eric Caual Electric Traction Co., who has been inspecting the canal locks at this place, is quoted as stating that the company will have 200 motors in operation on the Eric Canal by next season, which will be capable of handling 1,000 canal boats.

NEW YORK. N. Y.—Hids are asked by the bureau of

handling 1,000 canal boats.

NEW YORK, N. Y.—Hilds are asked by the bureau of yards and docks, navy department, Washington, D. C., until Nov. 21 for furnishing 20,000 lbs. of composition castings and the following interior fittings: 50 for feeder and 840 for branch junction boxes, 628 for water-tight switches, 5-ampere; 167 for water-tight receptacles, 5-ampere; 54 for water-tight switch and receptacles, 25-ampere; 16 for water-tight switches, 50-ampere; 28 for water-tight transfer switches, 50-ampere; 20 for water-tight switches, 100-ampere; sockets, 1,000 keyless (hronze), 200 key (silver), 500 keyless (silver), 1,000 sockets, type A, drawing No. 1629-D, complete, with porcelain and spring; 200 interior fittings for 25-ampere water-tight switches.

water-tight switches.

NIAGARA FALLS, N. Y.—Local papers state that A. C. Douglass, Niagara Falls, has been awarded a sub-contract by the National Contracting Co., who has the contract for the wheelpit for the new power plant. The sub-contract is for extending the tunnel and the shaft.

OSWEGO, N.Y.—Local papers state that the contract for a new power house for the Peoples Electric Light & Power Co. will be let at once. New machinery for the improvements has probably been ordered.

Co. will be let at once. New machinery for the improvements has probably been ordered.

RHINEBECK, N. Y.—J. M. Johnson and Dr. G. N. Miller have submitted to the viliage board a proposition for lighting the town.

ROSLYN (L. I.), N. Y.—Mrs. Katherine Mackey, it is stated, will build a water-power plant for furnishing electricity to her new house and lands.

SCHENEVUS, N. Y.—The question of putting in a plant by local parties is being considered.

EAST ORANGE, N. J.—W. H. Keimer, Township Engr., writes us that no steps have yet heen taken, nor are likely to he very soon, regarding the proposed city plant.

MOUNT HOLLY, N. J.—It is stated that the United Gas Improvement Co., Drexel Hidg., Philadelphia, is interested in the water rights for a power plant at Raneocas, purchased by the American Investment Co., New York.

PAULSBORO, N. J.—Wm. J. Adamson, owner of franchise for the water-works, writes us that he wants to purchase electric light plant supplies. Population, 2,000.

EAST GREENVILLE, PA.—O. Eisenlohr & Bros. will install a plant in their eigar factory, according to reports.

GALLITZIN, PA.—A. E. Giles, Supt., Gallitzin Electric Light Co., writes us that the following contracts have been let: One 100-HP. locomotive and four coal cutters, Morgan-Gardner Electric Mfg. Co., Chicago: 200-HP. holler, Erie Iron Works, Erie, Pa.; 100-K-W. Westinghouse single-phase 1,000-volt alternator, to the Westinghouse company.

house company.

McADOO, PA.—The citizens of this town voted on Nov. 7 in favor of issuing honds for establishing a piant.

PITTSBURG, PA.—Reports state that the Chartiers Light & Power Co. has sold its piant and franchise to the Melion Bros., Pittsburg, who are said to he also the purchasers of the McKees Rocks plant and a number of other plants in the Monongahela Vailey for the purpose of consolidating and improving them.

PHILADELPHIA, PA.—Bids are asked by A. L. English, Dir. Dept. Public Safety, until Nov. 20 for are lighting during 1900, with 7,674 lights, and by the Fairmount Park Commission until Nov. 23 for lighting the park.

LEWES, DEL.—Efforts are being made to have the town

LEWES, DEL.—Efforts are being made to have the town commissioners take immediate steps towards the construction of a plant. F. C. Mauil may be addressed.

CHRISTIANSBURG, VA.—Bids are asked until Dec. 1 for furnishing the msterisis and for hullding the plant to cost \$10,000 according to reports. G. W. Walters, Cik. Council.

COUNCIL.

CHARLOTTE, N. C.—L. L. Powell, H. T. Decker and T. Mason, of Decker, Mason & Co., New York, are reported to he about to establish a plant here.

CARROLLTON, GA.—The Mandeville Cotton Mills, it is stated, wishes to receive hids for a plant with a capacity of 500 incandescent lights.

pacity of 500 incandescent lights.

TALLAHASSEE, FLA.—Bids are asked by the city clerk until noon Nov. 20 for the purchase of \$16,000 of 4% honds for the proposed plant. It is atated that hids will soon he wanted for constructing the plant.

OPELIKA, ALA.—J. W. Williams, Chn. Light Com., writes us that J. W. Persons, Montgomery, Ala, submitted the lowest hid Nov. 6 for electric lighting, and will probably be awarded the contract Nov. 20. J. L. Relifro submitted the only other hid. The plant proposed will have a capacity for 60 enclosed 1,200-e. p. arc and 3,500 16-c. p. Incandescent lights.

BAY ST. LOUIS, MISS.—Richard Mendes, Secy. Council, writes us that the city advertised hids to be opened Nov. 1 for capital to establish a plant, but no such propositions were received. A local concern was to submit a bid Nov. 10.

were received. A local concern was to submit a bid Nov. 10.

CLARKSDALE, MISS.—Ai. Nachman, Cy. Clk., writes us that the people voted Nov. 6 to issue \$37,000 in bonds for a plant, water-works, etc.

GALLIATIN, TENN.—Bids are asked until Dec. 1 for one 100-HP. automatic engine, one 120-HP. tubulsr boiler, and one 60-K-W. alternating generator, to cost \$8,000. W. G. Shamberger, Chn. Light Com.; J. W. Pentecost, Engr., Nashville, Tenn.

KNOXVILLE, TENN.—Local papers state that the contract for a lock and dam in the Tennessee River at Knoxville, has heen let to an Indianapolis contractor. The dam, etc., which will cost ahout \$200,000, aere to furnish power to be used in this city. Gen. John T. Wilder, Pension Agent, Knoxville, is said to be interested.

BATAVIA, O.—Bids are asked until Nov. 25 by the board of electric light and water-works for erecting an electric light and water-works plant, as stated in our advertising columns. A. T. Johnson, Secy.

COVINGTON, O.—We are informed that the council has

COVINGTON, O.—We are informed that the council has done nothing regarding the estimate of C. O. Lucas, Greenville, O., for the \$30,000 water-works and electric light plant. A vote on the matter will soon he taken.

LOWELLVILLE, O.—The people voted Nov. 7 to issue conds for erecting an electric light plant. P. Watson,

CATLETTSBURG, KY.—The Carpenter Electric Light Power Co. will, it is stated, buy a 2,000-c. p. 100-light

dynamo.

ANDERSON, IND.—The contract for the power machinery, etc., for the Union Traction has been let to the General Electric Co., Schenectady, N. Y., at about \$500,000 The proposed railway will be about 108 miles long. The Westinghouse companies and others, will, it is stated, receive other contracts for work to cost about \$500,000 more CHARLESTOWN, IND.—Bids are asked until Jan. for erecting a water-works and electric light plant; cost \$10,000. C. R. Hay, Engr.

KNOX, IND.—Reports state that the Knox Light Water Co. has been granted a franchise for a plant, whi may be purchased by the city later on for \$32,500.

MIDDLETOWN, IND.—J. N. Barnard, Secy. Council, writes us that it is not likely that anything definite in regard to the proposed plant will be done before spring. ST. LOUIS, MICH.—The city has sold \$10,000 of honds for the proposed plant.

or the proposed plant.

AUBURN, I.L.—G. W. Hutton writes us that after Nov. a committee was to have been appointed to purchase the plant of the Auburn Electric Light Co.

CHICAGO, ILL.—Clarence Buckingham has withdrawn his bid for lessing the water power of the drainage chan-nel at Lockport, stating that it was impossible to interest capitalists in developing the power with the present re-

PONTIAC, ILL.—We are informed that plans, specifications and estimates are invited for a complete plant to cost \$30,000. The plant will consist of water-tube and return-tubular bollers (100 HP.), with or without mechanical stokers, 100 and 125-HP, bigb-speed engines, or 1,300-HP. Corilss and 1,100-HP. 60 and 75-K-W. two-phase, 60-cycle, 7,200 alternating dynamos, 35 miles of wire. No contracts of any kind have yet been let. J. A. Murray, Mgr.: S. E. Simms, Secy

DULUTH, MINN.—Alderman J. H. Crowley writes us that the question of erecting a 500-arc light plant will be voted upon at the February election.

STARBUCK, MINN.—Reports state that bids are wanted by the city clerk for the purchase of \$4,500 of 5% 20-year water-works and electric plant honds.

COUNCIL BLUFFS, 1A.—The following submitted propo-

COUNCIL BLUFFS, IA.—The following submitted propositions to the council Nov. 6 for electric lighting: J. P. Miller Co., Chicago: Seckner Contracting Co., Chicago: Council Bluffs Gas & Electric Co., J. P. Greenshields and E. A. Wilcham.

CRESTON, IA.—Local papers state that an election wi soon be held to vote on the question of granting a franchise to a gas and electric light company.

HASTINGS, NEB.—This place on Nov. 6 voted to issue 20,000 in bonds for a city plant.

\$20,000 in bonds for a city plant.

LIBBY, MONT.—Arrangements are complete for constructing a plant and water-works for the Kalispell Electric Light & Power Co. and A. B. Johnson.

MISSOULA, MONT.—W. F. Hughes, Cy. Cik., writes us that the council has received but one bid, that from the Missoula Light & Power Co., for electric lighting for three or five years. The city does not propose to build a plant.

BUREKA SPRINGS, ARK.—It is stated that the Citizens' Electric Co., will purchase one 250-HP. engine and boiler and a 200-K-W. 500-volt generator.

PINE BLUEF ARK.—M. B. Roberts and John Georgen.

boiler and a 200-K-W. 500-volt generator.

PINE BLUFF, ARK.—M. R. Roberts and John Georgen. of Independence, and Kansas City, Mo., have been granted a franchise for a plant and street rallway. Construction must begin before Jan. I.

ROGERS, ARK.—The question of the municipal ownership of the plant and water-works is being considered.

BEEVILLE, TEX.—C. N. Dunlap is reported as about to begin the construction of a plant and water-works.

HOUSTON, TEX.—The people voted Nov. 8 to issue \$100,000 of 5% 40-year bonds for a plant.

RUSK, TEX.—Reports state that T. C. Nuby will build an electric light plant and water-works. Address care of J. W. Summers.

J. W. Summers.
WHARTON, TEX.—D. H. Hardy, Secy. of State, Austin, Tex., has refused to grant a charter to the Wharton Electric Light, Icc. Water-Works & Cold Storage Co., because it is said that the slate laws do not allow a company to transact more than one kind of business. The organizers, G. C. Gifford and Edward Howes, will make a test case of the refusal in the courts.

test case of the refusal in the courts.

VICTOR, COLO.—R. M. Jones, Ch. Engr., Pikes Peak
Power Co., writes us that full working detailed plans for
the plant are completed and that 200 men are at work
on building the plant since Sept. 1. Power will be transnitted from two stations, 11 and 13 miles, to Cripple Creek.
Most of the bids for the work are in and no further information is ready for publication.

WOOLLEY, WASH.—Shrewsbury & McLain will erect a
light plant for this town and Sedro, according to reports.

BAKERSFIELD, CAL—Reports state that the Power

BAKERSFIELD, CAL.—Reports state that the Power Development Co. is about to spend \$100,000 at the Canyon in replacing its present wooden flume with a tunnel through the solid rock. The grade will be such that enough water may be carried to develop 12,000 HP., nearly eight times the present requirement.

tight times the present requirement.

BLUE LAKE, CAL.—The power house on the Mokeumne River, near Big Bar Bridge, belonging to the Stanlard Electric Co. was destroyed by fire, causing a loss of
about \$20,000. It is stated considerable of the machinery
will soon be repaired. A. H. Babcock, Supt.

will soon be repaired. A. II. Babcock, Supt.

MOKELUME HILL, CAL.—P. L. Schuman has engaged C. M. Burleson to-make surveys for his new power plant. A nine-mile canal will carry the water from the Mekelume River, above the Quartz Glen mine to the plant opposite Esperanza. The plant will supply electric light and power to the surrounding towns and mines and will cost about \$200,000.

PLEASANTON, CAL.—Bids are asked until Dec. 4 for the purchase of a franchise for the lighting of Pleasan-ton. F. C. Jordan, County Cik., Oakland.——The Liver-more Water & Power Co. is reported to have applied for

the franchise.

QUINCY, CAL.—The bosrd of supervisora accepted on Nov. 6 the hid of D. M. de Long for the purchase of a franchise for a plant and electric railway in Quincy, and also for one through Plumas.

SAN DIEGO, CAL.—L. J. Davids, Cy. Engr., writes us that the council will soon take steps towards installing a plant.

VENTURA, CAL.—J. F. Newby, Cy. Cik., writes us that nothing can be done toward calling an election to vote on bonds for water-works and a light plant until after the new board of trustees meeta on Jan. I.

TUCSON, ARIZ.—Press reports state that a plant will

TUCSON, ARIZ.-Press reports state that a plant will be put in to operate the Mammoth Mine. A. L. Pearse, 3 Gracechurch St., London, E. C., England, and G. P. Blair, Mgr., may be addressed.

GRANGEVILLE, IDAHO.—D. C. Van Buren, Mgr Grangeville Electric Co., writes us that the machinery for the present is contracted for, but more machinery sup-

plies, etc., will be wanted for a power and light plant next year, when a water-power plant will he put in, the present one being operated by steam. W. L. Kimmel, Engr.

year, when a water-power plant will be put in the present one being operated by steam. W. L. Kimmel, Engr. WOODSTOCK, N. B.—A. C. Rice, Civil Engr., Worcester, Mass., Informs us that plana have not yet heen completed for the electric plant.

RAT PORTAGE, ONT.—T. R. Deacon, civil and mining engineer, Rat Portage, writes us that he has made preliminary surveys for a power plant for the Regina Gold Mine Co., at Regina Bay, Lake-of-the-Woods. It has been-found that a head of 15 ft. can he maintained, developing about 500 HP. This is to be transmitted 3½ miles along the lake shore to the company's mine, to operate an eight-drill compressor, and a battery of 30 stamps, with the necessary equipment of a mill for handling, mining and treating gold quartz. Estimated cost, 800,000. J. E. Melvellie, Mgr. Dir.

LONDON, ENG.—J. H. Holmes & Co., 17 Soho Sq., W., London, have been awarded the contract at about \$113,675 for a generating plant for Hackney Vestry, to consist of two Belliss and two Willans-Holmes engines and dynamos. ENGLAND.—Reports state that it is proposed to build plants in various towns in this country as follows: Mexborough, to cost about \$7,140; Wrexham, \$110,500; J. W. M. Smith, Surv. Barking, \$66,400. C. J. Dawson, Surv. Salford \$50,000, and also one to cost \$300,000, Jos. Corbett, Engr.; C. L. Turner, Elec. Engr. Lelecester, \$500,000, E. G. Mawbey, Surv.; Alfred Colson, Mgr. Lighting Dept. Croydon, \$116,000, Thos. Walker, Engr. Norbury (extension), \$8,400. The question of plants for the following places is being considered: Redrutb, Limebouse, Padibam, Elland, Millom, Cleethorpes, Littleboro, Maryport. Trowbridge, Lytbam, Treweeshury, Acton, Lanark, Yeadon, Brighton, Southwick and Cork.

SPAIN.—Reports state that bids are belng asked by the city authorities of San Gugat del Valles and Barcelona for

Brighton, Southwick and Cork.

SPAIN.—Reports state that hids are being asked by city authorities of San Gugat del Valles and Barcelona electric plants, the one in the latter city to cost ab \$175,000.

MILAN, ITALY.—Reports state that the Societa Electro Chinica Valta has received permission to build a plant to utilize the water power of the River Tisino.

NEW COMPANIES.—Berks Electric Light, Heat & Power Co., Reading, Pa.; \$22,000; John H. Printz, Hamitton Goffrey.

Power Co., Reading, Pa.; \$22,000; John H. Printz, Hamilton Godfrey.
Hudson River Water Power Co., Saratoga Springs, N. Y.; \$2,000,000; to manufacture gas for sale in Saratoga Springs, and in any town or village not over 5 miles distant from that village, and to manufacture and sell electricity for heat, light and power purposes in cities, town and villages within the state; Eben H. Gay, Boston; Elmer J. West and Eugene L. Asbley, Glens Falls, N. Y. Consolidated Electric Co., Manchester, N. H.; \$250,000; Arthur E. Mason, Boston; Thos. H. Armstrong, Waltham; Eugene S. Whitney, Manchester.
Clinton Electric Co., Clinton, N. Y.; \$30,000; to furnish gas and electricity; 12 other cities and town in Onelda county will also be supplied by the company with light, beat and power; John N. Williamsson, Bone Park; Tbos. W. Cantwell, Albany; Thos. F. McBride, Clinton. Shamokin Light, Heat & Power Co., 423 Market St., Camden, N. J.; \$250,000; Geo. H. B. Martin, Cbas. C. Frick, Henry C. Niles.

Marlboro industriai Co., Msrlboro, N. H.; to own and operate water power; \$2,000; F. E. Adams, C. L. Bemis.

BRIDGES.

FORT FAIRFIELD, ME.—Local papers state that the contract for constructing an Iron bridge across the Aroostock River at this place, was awarded by the selectmen on Nov. 9 to the Berlin Iron Bridge Co., East Berlin, Conn. The piers and abutments are to be of granite and the structure will cost about \$26,000.

BOSTON, MASS.—A commission, composed of Col. Chas. R. Suter, U. S. Engr., Boston; Maj. D. W. Lockwood, U. S. Engr., Portsmouth, N. H., and Maj. W. L. Fiske, U. S. Engr., Newport, R. I., bas heen appointed by Secretary of War Root to hear petitioners and remonstrants to the huilding of the Cove St. bridge and to make reports upon the advisability of its construction.

BOSTON, MASS.—The following bids were received by City Engineer Jackson on Nov. 13 for coustructing a temporary pile bridge around Maiden bridge over the Mystic River: William J. Lawier, \$29,292; George Hayes & Co., \$29,950; William H. Ellis & Co., \$32,543; Benjamin Young, \$28,867.—Local papers state that the petition of the metropolitan park commissioners for a bridge over the Boston, Revere Beach & Lynn R. R., in Revere, on the lines on Crest Ave., has been approved by the railroad commissioners.

HARTFORD, CONN.—The Connecticut River Bridge and Highway District Commission has under consideration the plans for the proposed bridge, which is to be of steel and stone construction, with a roadway 54 ft. wide.

JOHNSTOWN, N. Y.—Local papers state that a party composed of Col. Ashiey W. Cole, of the state rallroad commission, Superintendent F. A. Harrington, of the middle division of the New York Central & Hudson River R. R., and others, made an inspection of Dennies crossing, about one mile north of Gloversville on Oct. 31, with a view to ascertaining the necessity of aholishing the grade crossing, and constructing a bridge over the tracks. It it quite probable that the work will be undertaken during the spring.

NEW YORK, N. Y.—Bids are asked until Dec. 7 for fur-

It quite probable that the work will be undertaken during the spring.

NEW YORK, N. Y.—Bids are asked until Dec. 7 for furnishing materials and constructing steel cables, suspenders, etc., for the new East River Bridge, amounting to about \$1,000,000 as stated in our advertising columns. The contractor will be required to give a hond of \$400,000. Lewis Nixon, Pres. Commission; James D. Bell, Secy. Commission, 49 Chambers St.

SENECA FALLS, N. Y.—Engineer Davis of the State Engineer's office, bas completed the plans for the Runsey St. bridge, which call for a structure with two overbead trusa spana 119 ft. long across the river and canal, and a plate-girder span above the tracks of the Lehigh Valley R. R. The hridge will cost about \$30,000, and hids will soon be asked by the state for its construction.

SYRACUSE. N. Y.—Local papers state that the plans

SYRACUSE, N. Y.—Local papers state that the plans for the ateel bridge to be built scross the Eric Canal at Catharine St. prepared by State Engineer Bond, have been approved by the state canal board, and that bids will soon be asked by the superintendent of public works, Albany, N. Y., for its construction.

CAMDEN, N. J.—The county board of freeholders re-celved a petition for a bridge across Cooper's Creek at Pine St., on Nov. 8, which was referred to the bridge committee.

committee.

PATERSON, N. J.—The application of the freeholdera to construct a bridge across the river from the Little Falls Road at the foot of West 13th St. to Westside Park was referred by the park commission on Nov. S to the Westside Park committee for consideration.

EPHRATA, PA.—Local papers state that viewers have reported in favor of a new steel and concrete hridge in this city, and that an engineer will probably soon be selected for the work.

lected for the work.

PITTSBURG, PA.—The Consolidated Traction Co. has filed plans for a viaduct over the Pittsburg Junction R. R. at Liberty Ave. and 33d St. The structure will be of steel, with 13 spans of 30 ft. each and one span of 50 ft. over

the rallway tracks, and will cost about \$57,057, of which the company will pay one-tbird.

the company will pay oue-toric.

SCRANTON, PA.—Local papers state that
of constructing a viaduct over the railwa;
West Lackawanna Ave., is again heing agita SCRANTON, PA.—The grand jury received Nov. 9 for six bridges in several parts of the will suhmit them with their report to the consideration.

sioners.

SHREVEPORT, LA.—Bids are asked until constructing several bridges (wooden?), accorports. Mrs. A. L. Duringer, Clk. Police Jury. BATAVIA, O.—The Cincinnati, Portsmouth R. R.'a hridge crossing the Little Miami Ritavia Junction, was destroyed by fire on Novported loss of \$5,000.

CINCINNATI, O.—The hoard of city affairs voted to construct the proposed Harrison A which will he 1,500 ft. long, 55 ft. high and clear of the railway tracks, which it spans. ture is estimated to cost \$250,000.

COLUMBUS, O.—The proposition of crecitic constructions are constructed by the cost \$250,000. 14 for

ture is estimated to cost \$250,000. To spans. COLUMBUS, O.—The proposition of creet over the Olentangy River, is being agitated Side Business Men's Association, which has scriptions in that interest.

COLUMBUS, O.—The question of issuing bobridge at Goodale St. was carried by the cl. Nov. 9.

COLUMBUS, O.—The question of issuing bonds for a bridge at Goodale St. was carried by the cliness on Nov. 9.

INDIANAPOLIS. IND.—Bids were received by the board of public works on Nov. 6 for a stone or Melan arch bridge of 3 spans, 74 ft. each, 70 ft. wide, over Fall Creek at discovering the contract of the contract

the proposed structure has not neen decided on. LOCKPORT, ILL.—Bids are asked until Jan. 3 for constructing the superstructure for the bridge over the Bear Trap Dam of the regulating works, at the drainage channel, as stated in our advertising columns. Wm. Boldenweck, Pres. Bd. Trustees; J. F. Haas, Clk., Cbicago.

week, Pres. Bd. Trustees; J. F. Haas, Clk., Cbicago.

MORRIS, ILL.—Bids will be received in about 20 days
by C. N. Stevens, Chn. Bd. County Supervisors, for constructing an iron bridge 640 ft. long with three piers and
two abutments, to cost about \$18,000, according to reports.

ST. PAUL, MINN.—City Engineer Claussen has submitted estimates of the cost for making necessary repairs
to the following bridges, owned by different railway companies, to the city legal department: 3d 8t. bridge, \$13,
500; University Ave., \$2,100; South Robert St.
\$3,100; Lafayette Ave., \$2,700; Minnehaba St., \$2,400

DUBUQUE, IA.—Local papers state that \$50,000 has
been subscribed toward the Eagle Point bridge, which is
estimated to cost \$100,000.

TOPEKA, KAN.—P. L. Wise, Cv. Energy writes the

estimated to cost \$100,000.

TOPEKA, KAN.—P. L. Wise, Cy. Engr., writes us that the proposed Kaw River bridge, to be located two miles east of this city is still under discussion, and that there is a probability of the city donating the old Kansas Ave. bridge and the county paying for its reconstruction.

CHILLICOTHE, MO.—Bids are asked until Nov. 21 for constructing a bridge over the east fork of Grand River, at 3d St. crossing, according to reports. Joe Broaddus, Bridge Comr.

KANNAS CITY MO.—Local page 12.1.

Bridge Comr.

KANSAS CITY, MO.—Local papers state that an ordinance will be introduced to the council approving the plans for the hridge at McGee St., over the tracks of the Kansas City Belt Ry. Co., and ordering the company to begin the construction of the hridge.——The question of repairing certain of the city's hridges and of rebuilding others is heing considered.

KANSAS CITY. MO.—Local papers state that the board

Is being considered.

KANSAS CITY, MO.—Local papers state that the board of public works has instructed Henry A. Wise, Cy. Engr. to prepare plans and estimates for a stone bridge and a concrete bridge over O. K. Creek, at Penn St., and to submit them at the next meeting of the board.

mit them at the next meeting of the board.

HOUSTON, TEX.—Bids are asked by the county commissioners until 2 p. m. Nov. 16 for constructing two bridges across the Colorado River; one at Columbus and the other at Red Bluff. Plans are on file at the office of J. J. Mansfield, County Judge, and at the office of S. A. Oliver & Co., 610½ Main St.

SEATTLE, WASH.—Bids are asked until Dec. 1 for constructing a combination bridge of 125 ft. span over the Cedar River, to cost ahout \$1,500, according to reports.

E. N. Wood, Deputy County Audr.

LOGAN, LTAH—Bress reports state that plans and

LOGAN, UTAH.—Press reports state that plans and pecifications for a bridge across Spring Creek have been

VANCOUVER, B. C.—Bids are asked until Nov. Is constructing a hridge across the Courtenay River Courtenay (Wooden?). W. S. Gore, Deputy Comp. Lands and Works Dept.

BUILDINGS.

BATH, ME.—Reports state that Harding & Gooch, Archs., Postal Telegraph Bldg., New York, are preparing plans for a residence for A. H. Shaw.

BOSTON, MASS.—A. S. Porter, C. D. Walnwright and F. Cabot, of the Washington St. Trust, sre reported to have purchased the plot 277 and 279 Washington St., and will erect an 11-story 28x58-ft. office building.

will erect an 11-story 28 x 58-ft, office building. CAMBRIDGE, MASS.—Plans have been filed for a 188 x 256-ft, car bouse, on Rivef St., to replace the one destroyed by fire; cost, about \$60,000.—A plot of ground at Harvard and Quincy Sts., and \$150,000, have been given for a new Harvard University clubbouse, plans for which are now under consideration.

HARTFORD, CONN.—J. G. Root, Dr. H. G. Howe and m. Donohue have been appointed a committee to regime plans, etc., for erecting a \$30,000 school building aklantic St., adjoining the High St. school, according

5.
FORD, CONN.—Plans have been prepared by J. Jor the St. Thomas' Preparatory Seminary build-ollins St. It will fe four stories; work will begin

HAVEN, CONN.—The following hids were rekov. 13 by Lieut.-Col. D. P. Heap, U. S. Engr.,
sville, N. Y., for metal work for tower for the
ven Long Wharf: Tacony Iron & Metal Co., Taven Long Wharf: Tacony Iron & Metal Co., Taven Long Wharf: Tacony Iron & Metal Co.,
Se00: Bethlehem Foundry & Macbine Co., South
son, Pa., \$826: Atlanta Machine Works, Atlanta,
by Whitebead & Kales, Detroit, Micb., \$850.

HI GLASTONBURY, CONN.—Bids are asked until 8 for the erection of a school huliding. W. H. P. Smedy, J. Currens, Bldg. Comrs.

KLYN, N. Y.—A new \$200,000 theater will be at Broadway, Fiusbing and Grabam Aves. by

effected at Broadway, Flusbing and Grabam Aves. by Hyde & Behman.

BROOKLYN, N. Y.—The following hids for construction of school building No 122 were received by the Department of Education Nov. 13: P. J. Walsh, 5th Ave. and 42d S. New York, \$223,000; J. T. Woodruff, Long Island (42d S. New York, \$223,000; J. T. Woodruff, Long Island (42d S. New York, \$223,000; J. T. Woodruff, Long Island (42d S. New York, \$230,1137; J. F. T. Lamb, 95 Nassal St., New York, \$231,137; J. & T. Lamb, 95 Nassal St., New York, \$235,500; Kenny & Henningbam, Brooklyn, \$235,500; K. A. Murphy, Brooklyn, \$240,000.—Bids are asked until Nov. 20 by the board of education, 146 Grand St., Manbattan, for steam heating apparatus and electric light plant for school No. 30; and until Nov. 27 for erecting school No. 124, and an addition to school No. 17.—The contract for constructing the steam engineering buildings at the navy yard has been let to O'Brien & Hoolban, Syracuse, N. Y., at \$33,100,—The board of estimate has appropriated \$324,000 for new buildings and improvements in Flatbush.

BUFFALO, N. Y.—The following lowest bids were opened Nov. 8 for erecting school building No. 43 at 10 and 10

John A. Roebling's Sons, \$5,945; heating and ventilating. Timethy McEvoy, \$13,190.

NEW YORK, N. Y.—Bids are asked by the armory board, City Hall, until Nov. 24, for aiteration and improvement to the rife range in the 14th Regiment Armory building, at 8th Ave.. 14th and 15th Sts., Brooklyn; and for an alteration to the 71st Regiment Armory building, 4th Ave., 33d to 34th St., Manbattan. (Postponed from Nov. 6.)—The G. A. Fuller Co., 160 5th Ave., is reported to have received the contract for the new 14-story \$150,000 International Bank Building.—Pians have been filed by Wm. H. Stearns for a 6-story apartment house, 137 W. 45th St. to cost \$130,000. C. A. Rich, Arch.; by L. Bachrach, for a 6-story flat, 149 Broome St., to cost \$45,000. M. Bernstein, Arch., 245 Broadway; by T. H. Beil, for a 7-story apartment house, 431 4th Ave., to cost \$50,600. Moore & Landseldel, Archs.; by S. H. Stern, 43 E. K. 198 5th Ave... to cost \$70,000. A. J. Manning, Arch., 25, at 986 5th Ave... to cost \$70,000. A. J. Manning, Arch., 26,000 the standard of the standard central Park West for the First Battery.—The Fire Department will build a new \$200,000 repairs shop at 56th St. and 12th Ave.

NEW YORK, N. Y.—Plans have been filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs on the standard central Park West for the Firet Battery briefs con the standard central Park West for the Firet Battery.—NEW YORK, N. Y.—Plans have been filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs con the standard central Park West for the Firet Battery building and the standard central Park West for the Firet Battery between the filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs con the firet Battery building and the filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs can be seen filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs can be seen filed by the Mutual Life Insurance Co., 29 Nassau St. for a 14 story briefs can be seen filed b

shop at 56th St. and 12th Ave.

NEW YORK, N. Y.—Plans have been filed by the Mutual Life Insurance Co., 32 Nassau St., for a 14-story brick and stone office building, 74×66 ft. at 51 to 55 Cedar St., ocst \$450,000. Clinton & Russell, Archs., 32 Nassau St.; by same for a 15-story brick and stone office building, 112×46 ft. at 20 to 26 Liberty St., cost \$550,000, Clinton & Russell.—Bids are asked by the department of public charities, foot E. 26th St., until Nov. 27 for furnishing about 300,000 ft. of lumber, and for alterations to the North Hospital building, Randali's Island.

SYLVAN BEACH, N. Y.—Bids were opened Oct. 29 for he erection of the new St. Charles building, to cost about

nd

FLEMINGTON, N. J.—Plans have been prepared for a new \$25,000 brick and stone achool building by F. S. Allen, Joliet, Ili. JERSEY CITY, N. J.—Reporta state that John H. Ward has been appointed chairman of a committee to look for a site for the new No. 2 school building.

NEWARK, N. J.—Pians will soon be asked for additions 10 school hulldings and 3 new buildings; cost, ahout

NEW LISBON, N. J.—Pians will soon be completed by Thos. Stephens, Masonic Temple Bidg., Camden, N. J., for the new brick and stone insane asylum, to cost about \$800,000, according to reports.

PASSAIC, N. J.—Bids are asked by the city clerk until Nov. 17 for erecting a fire engine house at Franklin Ave. and Westerveit Place; check, \$200.

TRENTON, N. J.—F. S. Allen, Joilet, Ili., has completed plans for the new \$125,000 school building, according to reports.

HUNTINGDON, PA.—The Windber National Bank will rect a new brick and stone bank building, according to eports. S. R. Shumaker, Pres.

NEWBERRY, PA.—Reports state that the city board as decided to erect a new school building.

as decided to erect a new school building.

PITTSBURG, PA.—Plans have been filed by Mrs. Mary

C. Coffey for a 7-story brick warehouse at S10 to S14

renn Ave., to cost \$65,000.—Reports state that the board

f education bas selected a site at Sbady Ave. and Walnut

it for the new East End Higb School building.

St. for the new East End Higb School building.

PHILADELPHIA, PA.—Reports state that the grand jury has declared the Insane department of the Philadelphia Hospital too small and has recommended an additional story.—Ground will be broken for the new \$70,-000 armory building for the First City Troop, at 23d, near Chestnut Sts., in the early spring.—J. R. Pharoab, 1638 Carlisle St., has the contract for alterations to the house of Stanley Buck, 1517 N. Broad St., to cost about \$50,000.

BALTIMORE, MD.—A new school building will be erected at Mount and Saratoga Sts., at a cost of \$35,000. according to reports.

WASHINGTON, D. C.—H. J. Hardenburgh, 10 W. 23d St.,

according to reports.

WASHINGTON, D. C.—H. J. Hardenburgh, 10 W. 23d St., New York, N. Y., is preparing plans for a new 140 x 310-ft. 11-story brick hotel to be erected on the site of the present Williard's hotel, 14th and Pennsylvania Ave., by the Virginia Hotel Co., to cost \$2,000,000. Jos. E. Williard, Pres.—Reports state that plans are being prepared for a \$700,000 residence to be erected by Senator Clark, of Montana, on Dupont Circle.—Wm. J. Palmer bas prepared plans for a row of 28 3-story houses on V St., between N. Capitol and First Sts.

NEWPORT NEWS, VA.—Plans are being prepared for a

NEWPORT NEWS, VA.—Plans are being prepared for a government hullding to cost about \$100,000, according to reports.

NORFOLK, VA.—The St. Vincent Hospital, recently stroyed by fire, will be rebuilt at a coat of \$80,000.

MORGANTOWN, W. VA.—The contract for erecting a library, an armory and a mechanical ball at the University of Morgantown has been let to Caldwell & Drake, Parkersburg, W. Va., at about \$76,000.

COLUMBIA, S. C.—The plans of F. P. Milburn, Winston, S. C., for the new city ball and opera bouse building have been selected; the building is to he three stories high, 80 × 166 ft., and will cost \$40,000.

HUNTSVILLE, ALA.—J. R. Jones will rebuild the structure on Washington St., recently destroyed by fire; cost, \$40,000.

NEW ORLEANS, LA.-A. C. Beil, City Engr., is pre-paring plans for a new \$75,000 jail. JOHNSON CITY, TENN.—The question of issuing \$6,000 of court house bonds will be voted on Nov. 23.

MEMPHIS, TENN.—The buildings occupied by the voods-Chickasaw Co., the Louisiana Molasses Co., and ne Planters' Warehouse on Tennessee, Huiling and Tolert Sts. were destroyed by fire Nov. 9; reported loss, bout \$250,000.

NASHVILLE, TENN.—It is stated that the Chamber of ommerce proposes to erect a 6-story brick building, to

BLUFFTON, O.-W. L. Kramer is reported to have employed to prepare plans for the college of the Menn Church.

MASSILLON, O.—The building occupied by Allman & Putnam, milliners, was destroyed by fire Nov. 8; reported loss, \$250,000.

loss, \$250,000.

TOLEDO, O.—A 5-story brick and stone office building will be erected at Erle and Jefferson Sts. by King & Tracy, at a cost of \$40,000, according to reports.

CHICAGO, ILL.—It is proposed to build a new police headquarters building to cost \$100,000, according to

CHICAGO, ILL.—Plans have been filed by G. E. West or a two-story brick residence at 3956 Ellis Ave., to cost

JOLIET, ILL.—Bids are asked until Nov. 21, by A. O. Marshall, Pres. Bd. Education, for erecting a bigh school building; separate bids for heating. T. A. Mason, Secy. TAYLORVILLE, ILL.—The county board is reported to have voted to erect a court bouse to cost \$100,000.

TAYLORVILLE, II.L.—The county board is reported to have voted to erect a court house to cost \$100,000.

MINNEAPOLIS, MINN.—Plans have been prepared by Fred. Kees, 603 Kasota Bidg., for an S-story addition to the Chamber of Commerce building, to cost \$25,0000.—Plans have been filed for new church, chapel and rectory buildings for St. Paul's P. E. Church, at Franklin and Bryant Avea., to cost in all \$73,000. W. A. Lord, 1324 Harmon Place; by the board of education for a new high achool building at University and 1st Aves., to cost \$80,000; by G. C. Bagley Elevator Co. for a frame grain elevator at 23th St. and 10th Ave., to cost \$25,000.

WARSAW. N. DAK.—Bids are asked until Dec. 5 for erecting a church building for St. Stanislaus parish; capacity, 1,100. Rev. F. Gawlowicz, Pastor; J. W. Ross, Arch., Grand Forks, N. Dak.

ANACONDA, MONT.—Plans bave been filed for a 5-

ANACONDA, MONT.—Plans have been filed for a 5-story brick block at Broadway and Wyoming St., the Thornton Block, to cost \$70,000; and by the Armour Packing Co. for a new refrigerator on Platinum St., to cost \$4,000.

cost \$4,000.

ODEKA, KAN.—Plans are now ready for the new \$80,000 auditorium; bids for the erection will be opened about Dec. 15. P. L. Wise, Cy. Engr.

KANSAS CITY, MO.—The Jones Building, at Main and Sixth Sts., was destroyed by fire Nov. 5; reported loss, \$300,000.

KANSAS CITY, MO.—It is stated that the Jacob Doid Packing Co. will rebuild the building recently destroyed by fire, at once. The new building will cost \$50,000, and will be furnished with \$50,000 worth of machinery.

will be furnished with Sauran worth a machinery.

ST. LOUIS, MO.—Alterations to the bolier piant in the new City Hall have heen authorized, to cost \$10,000.—

The United Railways Co. has let the contract for its new 3-story, 84×127-ft. office huilding, at 3863 Park Ave., to E. A. Steinberger, at about \$40,000.

E. A. Steinberger, at about \$40,000.

CORSICANA, TEX.—Hardy & Peck will make their new office building at 6th Ave. and 11th St. three stories instead of two; total cost, \$40,000, according to reports.

EL PASO, TEX.—Bids are asked until Dec. 6 for the purchase of \$10,000 of 5% 30-year bonds for erecting a rew city ball. B. S. Catlin, Cy. Cik.: J. Magoffin, Mayor. GALVESTON, TEX.—The contract for the 5-story hank building for M. Marx has heen let to J. T. Taylor, at \$50,000, by Geo. Stowe, Arch.

GONZALES, TEX.—Dide are asked wattl. New Other.

GONZALES, TEX.—I recting a brick church. louston, Tex. -Bids are asked until Nov. 21 for ch. O. H. P. Rudeslii & Son, Archs.

Houston, Tex.

GOLDFIELD, COLO.—The town will build a \$40,000 court house according to plans made by M. L. McBird, Victor, Colo., providing the county seat of the new Teiler county is located here.

SEATTLE, WASH.—It is stated that the Northern Pacific Ry, Co. will erect a \$400,000 passenger station here.

CLEARWATER, CAL.—Bids are asked until Dec. 6 for erecting certain new buildings and additions at County Farm. C. W. Bell, County Clk.

FUEEKA, CAL.—The preposition to issue \$40,000 of

EUREKA, CAL.—The proposition to issue \$40,000 of bool bouse bonds was defeated at the election Oct. 31.

SAN FRANCISCO, CAL.—The board passed a resolution of issue \$1,400,000 for new school huildings; \$200,000 will expended for a new Lowell High School building.

TULARE, CAL.—Reports state that Conradt & Wishar, of Visalia, Cal., bave heen awarded the contract for erecting the Congregational Church building, and will start work at once.

work at once.

SALT LAKE CITY, UTAH.—It is stated that the council will grant a franchise for the new \$500,000 union station on Third South, near Fourth West St. to W. H. Bancorft and D. C. Dodge for the Oregon Short Line and the Rio Grande Western Rys.—C. M. Neuhausen, 528 Dooly Block, is making plans for a 3-story brick residence on Brigham St. for Thos. Kearns, to cost \$75,000.

MONTREAL, QUE.—The confectionery warehouse of Viau & Frese, Notre Dame St., was destroyed by fire Nov. 12; reported loss, about \$500,000.

GUAYMAS, SONORA, MEX.—Arthur F. Wrotnowski. Guaymas, le reported to bave the contract for a new mu-nicipal palace.

PUEBLA, MEX.—Reports state that a new theatre to ost \$60,000 will he erected bere.

cost \$60,000 will be erected here.

HELLINGLY, ENGLAND.—The East Sussex County
Council has applied for authority to make a loan of about
\$1,000.000 for a lunatic asylum here. Address F. H. Tullock, Lewes.

ISLEWORTH, ENGLAND.—The following bids were received in October by the guardians of the poor for erecting a work house; W. H. Ward, Arcb. Paradiss St., Birmingbam: Leeder & Co., Chiswick, \$655,155; J. Shillitoe &
Son, Bury St. Edmunds, \$517,000; Cowley & Drake, Willesden, \$508,275; H. G. Lovatt, Wolverhampton, \$495,540;
B. E. Nightingaie, Lambeth, \$487,865; Wilcock & Co.,
Wolverhampton, \$465,625; Pattison & Sons, Westminster,
\$450,600; W. Wisdom, Isleworth, \$435,000; T. J. Messom

& Sons, Twickenham, \$434,075; J. Dorey & Co., Brent ford (accepted), \$413,165.

ford (accepted), \$413,165.

SWINDON, ENGLAND.—Bids are asked until Jan. 6 for five additional hospital buildings. Hailiday & Rodger, Archs., 14 High St., Cardiff, Wales; W. H. Kinneir, Cik. WEST HAM. ENGLAND.—The town council, it is reported, will ask Parliament for authority to acquire 100 acres of land and to erect. 3,000 workmen's dwellings, at a cost of about \$4,000,000. F. E. Hilleavy, Town Cik.; Alderman Adamson, Mayor.

HONOLULU, H. I.—Reports state that Wm. G. Irwin will erect a residence at Waikiki, to cost about \$100,000. Bids on the construction are soon to be called for. Ripley & Dickey, Archs.

WATER-WORKS.

CAMBRIDGE, MASS.—Walter H. Harding, Water Registrar, writes us that the water board has recommended to the council the adoption of a general meter system to cost about \$180,000. An appropriation of \$25,000 has been requested and is under consideration by the committee of finance.

MARBLEHEAD, MASS .- The town has voted \$3,000 for

new mains.

PASCOAG, R. 1.—We are informed that nothing bas yet been determined upon with regard to a new water supply for this place, it is expected that contracts for material will be fet in the spring. Population, 5,000. Shedd & Sarle, Engrs., Providence, R. 1.

MERIDEN, CONN.—It is stated that the question of a better water supply for this place is being considered.

MIDDLETOWN, CONN.—The trustees of the Middletown state hospital have decided to build an additional reservoir in the spring.

TERRYVILLE, CONN.—The Terryville Water Co. has let a contract to C. A. Ray & Co., Providence, for sinking a well for an increased water supply. Chas. Purrington, Secy.

cey.

LEICESTER, N. Y.—The Leicester Water Supply Co.
as been incorporated with a capital stock of \$500 by
F. White, C. W. Merville, of Mount Morris, N. Y., and

MOUNT MORRIS, N. Y.—H. H. Scoville writes us that the Mills Water-Works Co.'s property and franchises have been sold to a stock company. The new owners intend to extend the works next spring. Most of the stock of the new company is held by Scranton, Pa., people. Capital stock, \$60,000.

of the new company is held by Scranton, Pa., people. Capital stock, \$60,000.

UTICA, N. Y.—The Consolidated Water Co. has been incorporated with a capital of \$2.500,000 by Geo. L. Record, Jersey City, N. J.; John V. Bacot, West Orange, N. J.; John Rose Delafield, of New York, and others. The company will also supply New Hartford with water. OCEAN CITY, N. J.—Harvey Y. Lake, Gen. Mgr. Ocean City Water Co., writes us that nothing has yet been done regarding the proposed new tank or atand-pipe to take the place of the one that recently collapsed.

OVERBROOK, N. J.—Bids are asked until 10.30 a. m.. Nov. 16, for laying water pipe and for building a brick water tank at the county hospital. C. W. Heliman, Chn. Com., 800 Broad St., Newark, N. J.

PAULSBORO, N. J.—Wu. J. Adamson, owner of waterworks franchise, writes us that no plans for works have yet been prepared and no contracts let. Materials are wanted for complete works, tanks, wells, hydrants, pipe, etc., and also electric light supplies. Population, 2,000.

ALLENTOWN, PA.—Jacoby & Weishample, Allentown, have completed plans for the new pumping station, to be 56 x 120 ft. The plans call for machinery, electric wiring, etc. Bids for the foundations were received by the council for making surveys, plans, etc., for works to be council for making surveys, plans, etc., for works to be

ing, etc. Bids for the foundations were received by the water commissioners Nov. 14.

CANONSBURG, PA.—New bids have been asked by the council for making surveys, plans, etc., for works, to be opened at the December meeting.

HARRISBURG, PA.—Local papers state that this city on Nov. 7 voted by a majority of about 500 in favor of purchasing new pumping engines at a cost of \$75,000. The bond ordinance will now have to be advertised for four weeks before it can pass councils. Address City Clerk Miller and Select Councilmau Jauss.

HOMESTEAD, PA.—Thos. Morgan, W. I. Jack and Wm. Troup have been appointed a committee to consider the cost of sluking wells and constructing a reservoir and filtering well for a better water aupply.

HOPBOTTOM, PA.—The Spring Water Co. has been incorporated with a capital of \$4,500 by C. H. Tiffany, C. Stone, of Brooklyn; M. McVicar, of Hopbottom, and D. E. Carpenter, of Huntingdon.

LEHIGHTON, PA.—The Lehighton Water Supply Co.

Carpenter, of Huntingdon.

LEHIGHTON, PA.—The Lehighton Water Supply Co. has been incorporated with a capital stock of \$325,000, with \$32,500 paid in, by John B. Russell, Wilkes-Barre, Pa.; M. W. O'Boyle, Pittston, Pa., and Grant Pelton, Scranton. It is said that this company will have control of nearly the entire water supply of Carbon county.

PHILADELPHIA, PA.—Ordinances for the proposed filtration plants, etc., for improving the water supply to cost \$12,000,000 will not be taken up hefore the new year. The resolutions will have to be advertised for 30 working days. It will take three years to complete the work.

READING, PA.—Reports state that the board of trade is in favor of the proposition of Benneville Klemmer to sink wella in Mount Penn for a hetter water supply.

SCRANTON, PA.—The council bas passed a resolution

SCRANTON, PA.—The council bas passed a resolution introduced by Councilman Meivin, authorizing the mayor to ascertain at what price the Lackawanna Iron & Steel Co. will seli its water-works to the city.

CHRISTIANSBURG, VA.—The question of building corks is being considered. G. W. Waiters, Clk. Council. FAYETTEVILLE, N. C.—Sult bas been brought against this city, it being claimed that the \$75,000 in bonds recently voted for works and an electric plant is illegal, as no provision was made for interest or for creating a sinking fund.

sinking fund.

GREENSBORO, N. C.—Data for purchasing the works of the Greensboro Water Co. or for constructing new works is reported as being secured by W. R. Richardson, Civil Engr., for the city. Estimated cost, about \$200,000. SALISBURY, N. C.—This town recently voted to issue \$100,000 in bonds, a part of which, it is stated, will be used in purchasing the works or of building a new plant. S. F. Lord, Mayor.

ATLANTA, GA.—The question of again having the people vote upon the proposition to issue \$200,000 in bonds for extending the mains is being considered by the council.

AUGUSTA, GA.—The residents of Harrisonville bave asked Augusta to furnish that suhurb with a water supply. JACKSON, GA.-This place has voted to issue \$20,000 in bonds for works.

SUMMERVILLE, GA.—C. A. Robbe is reported to bave eeu awarded the contract, at \$2,700, for a pump to bave capacity of 500 gallons a minute.

OCALA, FLA.—David S. Williams, Secy. Bd. of Trade, writea us that the Boardman Water Co. wants to sell its works to the city. The council has appointed a com-

1

mittee to investigate the matter, and the city strorney has been directed to report on the contract between the city and the company and its validity, etc.

CLARKSDALE, MISS.—Al. Nachman, Cik., writes us that this place voted Nov. 6 to issue \$37,000 in bonds for works, an electric plant and sewers.

LAKE CHARLES, LA.—The council is considering the question of buying the property and franchises of the Lake Charles Ice, Light & Water Co. for \$100,000.

LANCASTER, KY.—This town voted Nov. 7 in favor of

Charles Ice, Light & Water Co. for \$100,000.

LANCASTER, KY.—This town voted Nov. 7 in favor of issuing bonds for water-works. The council will advertise for hids at once, according to reports.

BATAVIA, O.—Bids are ssked until Nov. 25 by the board for an electric plant and works, as stated in our advertising columns. A. T. Johnson, Secy.

advertising columns. A. T. Johnson, Secy.

BURTON, O.—H. C. Tutler, Mayor, writes us that no action has yet been taken with regard to putting in works.

CLEVELAND, O.—Bids will likely be asked in 20 days for constructing the new Kirkland St. pumping station. Four new pumping engines, with a capacity of 100,000,000 galions a day, will be installed. The machinery will cost about \$500,000 and the building \$100,000. The foundation walls of the pumping station will be sunk 27 ft. below the liske level. It is expected that the new water tunei now under construction, and which will be 7,000 ft. long, will be completed by Jan. I, 1901. The tunnel is costing about \$539,000 and the steel crib \$138,000, and the two wooden cribs \$109,000. M. W. Kingsley, Supt. Water-Works.

COVINGTON, O.—C. O. Lucas, Civil Engr., Greenville, O., is making estimates for works and an electric plant for this city. We are informed that the council expects to submit the question of issuing bonds to a vote of the people. Estimated cost. \$30,000. Address John V. Metzger.

Metzger.

DAYTON, O.—Bids are asked until Dec. 1 for furnishing a 1,000,000-gallon pumping engine for the Dayton state hospital. J. M. Ratilff, Secy.—Local papers state that water mains in a number of streets will have to be replaced on account of electrolysis.

replaced on account of electrolysis.

DELAWARE, O.—President Carpenter, of the council, writes us that this city on Nov. 7 failed to vote the required majority to issue bonds to purchase the works. Population, 10,000.

MASSILLON, O.—Councilman Johns has introduced a resolution looking to the purchase of the works of the Massilion Water Supply Co.

CHARLESTOWN, IND.—Bids are asked until Jan. I for constructing works and an electric plant, to cost \$10.000, according to reports. C. R. Hay, Engr.; E. G. Runyon, Mayor.

yon, Mayor.

FRANKTON, IND.—It is reported that certain documents connected with the franchise for works and an electric plant recently granted to E. P. Wbeeler, of Beiolt, Wls., and others, have heen lost. New proceedings looking to these improvements will therefore have to be made. It is also stated that there is a considerable feeling in favor of the city owning the plants.

TITAVERSE CITY, MICH.—Alderman Montague is urging the city to purchase the works owned by H. D. Campbell & Sons, instead of building a new plant, on account of the high price of material.

account of the high price of material.

CHICAGO, ILL.—Bilds are asked until Nov. 22 for laying water mains in 22 streets, etc. L. E. McGann, Pres. HIGHLAND PARK, ILL.—The water supply committee has recommended a filtration plant for the water supply. Until this can be put in it is recommended that the water be belied or otherwise purified.

PEKIN, ILL.—An election will be held Dec. 12 to vote on the question of issuing \$113,000 in bonds for the purchase of the works of the Pekin Water Co. Population,

MILWAUKEE, WIS.—The Pabst Brewing Co., It is stated, will sink two artesian wells about 1,600 ft. deep and erect a 10,000-gsilon tank for a water supply for

CLAYTON, IA.—It is reported that the works at this isce will be improved.

see will be improved.

MOORHEAD, I.A.—The question of a water supply for re protection is being considered.

ARLINGTON, MINN.—Bids are wanted for sinking 6 and 8-in. wells for a water supply. F. W. Jumer, Village Reedr.

DULUTH, MINN.—Aiderman J. H. Crowley writes us that the city may purchase the West Duluth works the coming year.

LIBBY, MONT.—Local papers state that construction on the proposed works must be commenced by A. B. Johnson and the Kalispell Electric Light & Power Co. within six months. The water supply will be secured from Flower Creek. Population, 500.

TOPEKA, KAN.—P. L. Wise, Cv. Engr., writes us that

TOPEKA, KAN.-P. L. Wise, Cy. Engr., writes us that ians for complete new city works are being prepared.

plans for complete new city works are being prepared. ORONOGO, MO.—The committee, consisting of Fred. Smith, Chn., and S. D. Bernard, is reported as buying machinery for the works.

ST. LOUIS, MO.—President Meier, of council, has introduced a resolution providing for a water supply for the public schools.—Water Commissioner Flad has recommended that experiments of filtration plants he made before anything definite is decided upon.

BEEVILLE, TEX.—C. N. Duulap and others have closed contracts for the proposed works and electric plant for this place.

DALLAS, TEX.—J. H. Taylor writes us that a wooden

DALLAS, TEX.—J. H. Taylor writes us that a wooden dam to cost about \$7,500 for an increased water supply is to be built.

RUSK, TEX.—The question of putting in works and au flectric plant is being considered by T. C. Nuby, care of . W. Summers.

WHARTON, TEX.—D. H. Hardy, Secy. of State, Austin, has refused to grant a charter to the Wharton Electric Light, Ice, Water-Works & Cold Storage Co., formed by Edwin Hawes and R. B. Hustou, with a capital of \$50,000.

by Edwin Hawes and R. B. Huston, with a capital of \$50,000.

ARDMORE, IND. TER.—it is stated that the proposed works for this place will cost about \$30,000.

PURCELL, IND. TER.—W. G. Bianchard, Mayor, writes us that this eity will vote next month on the question of issuing \$20,000 in bouds for works. The water supply will be secured from wells. Population, 3,000.

COLORADO CITY, COLO.—The council has decided to sink additional wells for an increased water supply. Address Mayor Robinson and Alderman Rice.

NEW WINDSOR, COLO.—It is stated that an election will he held in Windsor Nov. 28 to vote on the question of building works. M. H. Laybourn, Town Clk.

SEATTLE, WASH.—Jos. McGlivary, Min. Engr., is reported as interested in water-works and a power piant for a town in the Klondike region to cost about \$500,000.

DIXON, CAL.—Bids are asked until Dec. 4 for furnish-

DIXON, CAL.—Bids are asked until Dec. 4 for furnishing eight pumping engines, each with a capacity of about 130,000 gailons a day. The hids received Nov. 6 have been rejected. G. H. Hailiday, County Cik., Fairfield.

DUNSMUIR, CAL.—It is stated that J. Champlon has burchssed the works and will make improvements at

HEMET, CAL.—The Fruitvale Water Co. has been in-corporated with a capital of \$50,000, \$2,350 of which is paid in. P. J. Perrine and T. H. Sullivan, of San Jacinto, Cal., and K. S. Kariton, Hemet.

Cal., and K. S. Kariton, Hemet.

OROVILLE, CAL.—The Oroville Water & Power Co. will meet Dec. 21 to consider the question of purchasing the property of the Oroville Water Co., and the franchises, etc., of the Oroville Gas, Electric Light & Power Co., and of extending the properties. C. F. Lott, Pres.

and of extending the properties. C. F. Lott, Pres. SACRAMENTO, CAL.—Rudolph Hering, 100 William St., New York, has submitted his report and recommendations for a better water supply. L. J. Le Conte, P. O. Box 492, Oakland, Cal., has recommended the sinking of wells for the additional water supply. The committee proposes to make tests to secure a supply of 15,000,000 gallons a day. Address Gen. L. Tozer and D. A. Lindley, of the water committee.

SAN DIEGO, CAL.—L. J. Davids, Cy. Engr., writes us that the adverse decision on the legality of issue of \$1,500,000 of bonds for city works has been appealed to the Supreme Court.

the Supreme Court.

SONOMA, CAL.—Otto von Geidern, Civil Engr., S19
Market St., San Francisco, Cal., writes us that this city
has made two attempts to carry a proposition to issue
honds for works to cost about \$20,000, but each time it has
been defeated. The question is again being considered.
Nothing in the way of engineering will be agreed upon
until the finances have been settled. Population, 2,000.

VENTURA, CAL.—J. F. Newhy, Cy. Cik., writes us that
no steps towards holding an election to vote on the question of works and an electric plant will be taken until
after the new board of trustees meets on Jan. 1.

after the new board of trustees meets on Jan. 1. FORT DEFIANCE, ARIZ.—Bids are asked by Geo. W. Nayziett, U. S. Indian Agent, Fort Defiance, until Dec. 7, for sewers, water-works and huildings at the Navajo agency, and by J. J. McKorn, Supt. Indian School, Fort Mojave, Ariz., until Dec. 12, for the same work at Fort Mojave, W. A. Jones, Comr. Indian Affairs, Washington.

FARNHAM, QUE.—Bids for the purchase of \$30,000 of bonds for the proposed works are reported as being considered. E. Audette, Secy. Council.

SYDNEY, N. S.-It is stated that the council has voted issue \$20,000 in honds for extending the works and

SUSSEX, N. B., CAN.—Snow & Barbour, Boston and Brockton, Mass., are reported to have submitted a proposition to the fire wardens to put in works, which they will either operate or sell to the city.

VANCOUVER, B. C.—The city engineer estimates that the city will have to purchase next season about \$27,000 worth of water mains.

CALGARY, N. W. TER.—Willis Chipman, 103 Bay St., Toronto, Ont., is reported as preparing plans for works for this place and also plans for works at Kamloops, B. C.

EDMONTON, N. W. TER.—Estimates for works for this clace have been prepared by A. J. Harriman.

GANANOQUE, ONT.—A. McCammon, Clk., writes us that Willis Chipman, 103 Bay St., Toronto, Ont., is preparing pisns for works and a sewerage system. The wster supply will be secured from the St. Lawrence River. The question of issuing bonds for the improvements will probably be submitted to the voters early next year. Population, 3,500.

FORT WILLIAM, ONT — E. P. Rutledge, Town Cik... writes us that the city has extended the mains about 10,000 ft. and will probably next year extend the mains about 2,000 ft. John Galt, Engr., Ottawa; W. H. Smith,

HONOLULU, H. I.—Reports state that wells are to be unk in this city for an artesian water supply.

HULL, ENGLAND.—Bids are asked until Nov. 20 for sinking a 6-ft. well 35 ft. and a 6-in. well 205 ft. building tank. furnishing pumping machinery, oil or gas engine, 12,591 ft. of 3, 4 and 5-in. water pipe, etc. W. H. Welisted, Engr.

Weilsted, Engr.

MOTHERWELL, ENG.—Parliament will be asked to grant this city authority to spend about \$600,000 for a water supply.

SEWERAGE.

PORTLAND, ME.—The following bids were received Nov. 10 for grading Norwood St. and for sewers in Nor-wood and Amberst Sts: Wooster & Wilson (accepted), 81.237; John W. Gulliver, \$1.571; John H. Flannagan, 81.658; Angeilo Lorells, \$1.722; Thomas Shannahan, \$1. 788; John J. Mahoney, \$1,956.

WOODSTOCK, VT.—Geo. Aitken, Chn. Village Trustees, writes us that R. A. Cairnes, Waterbury, Conn., is preparing plans for the system. The question of building a system will be submitted to the people at the village meeting Jan. 1.

eeting Jan. 1.

SALEM, MASS.—The question of an improved system or the entire city is helng discussed. Dr. L. J. Cherring-nn, Jas. Fanning and Wm. H. Jedly sre on the committee to investigate the question of abating the North River

WAKEFIELD, MASS.—The question of sewer improve-ments to cost \$350,000 and of making a connection with the Metropolitan system is being considered by the

council.

WESTBORO. MASS.—J. J. Van Valkenburg, of South Framingham, Mass., has been directed to make plans for a system of sewage disposal at the Lyman school.

ALBANY, N. Y.—Bids are asked until Nov. 20 for constructing a pipe sewer in Thatcher St.; bond, \$2,500. T. J. Lanahan, Cy. Cik.——The state commission is discussing the question of a sewer for the Manhattan Insane Hospital, Central Islip, where there will be 10,000 patients.——Property owners have protested against repairs to the old Fox Creek sewer, and have asked for a new sewer.

to the oid for creat states.

BINGHAMTON, N. Y.—S. E. Monroe, Cy. Engr., has been directed to prepare plans, etc., for the sewers that should be taken into the proposed trunk system, and to secure cost of engaging an expert. L. H. Quackenbush and C. S. Darling are on the committee.

CARTHAGE, N. Y.—The question of putting in a system is being discussed, but no steps have yet been taken. P. R. Wrape, Pres. Village.

NORTH TONAWANDA, N. Y.—Wm. Nellis, Pres. Bd. Aldermen, writes us that the people voted to raise by tax \$30,000 for sewer extensions. W. C. Oille, Mayor, writes that nothing further will be done until next year.

SAG HARBOR (L. I.). N. Y.—The people sre again talk-

writes that nothing further will be done until next year. SAG HARBOR (L. I.) N. Y.—The people are again talking of building a system. John Fordham, City Trustee.

ATLANTIC CITY, N. J.—The question of a drainage system is being discussed. J. A. Hackney, Cy. Engr., is reported to be in favor of a canal parallel to Mediterranesn Ave.

ELIZABETH, N. J.—Francis Collingwood, Civil Engr., writes us that the question of a tide water sewer is quite problemstical, as the differences in opinions are very wide.

GLOUCESTER CITY, N. J.—Reports state that City urveyor Loomis has completed plans for a system to

LANDSDOWNE, PA.—Reports state that this town has voted to Issue \$15,000 in bonds for sewers.

PHILADELPHIA, PA.—Robt. T. Corson, mittee appointed to secure the improvement of sewer conditions in Frankford, is reported to be to covering Little Tacony Creek, and will lay to matter the fore the mayor at once.

HAMPTON, VA.—Hill & Quick, 520 Equited filled Baltimore, Md., are preparing plans for a spaying. Work will not be commenced before NEWPORT NEWS, VA.—The council has take the contract for building the system away contractors, and have the city finish the world direction of Aiex, Potter, Consult. Engr., 157 New York, according to reports.

ROANOKE, VA.—I. H. Wingate, Cy. Engr. that the contract for sewers in sections 25 and share been let to Markley & Co., at \$1.700 and \$5.200.

SALISBURY, N. C.—R. W. Price, Cy. Cik, that \$5,000 worth of bonds will be suild at once with the system.

COCHRAN, GA.—The question of a system is

the system. COCHRAN, GA.—The question of a system is becaused, seconding to reports.

ALEXANDRIA, LA.—Bids are asked until Nove cording to reports, for constructing a system Sylvester, Engr.

GREENVILLE, MISS.—Bids are asked until be constructing 15 miles of pipe sewers, as stated in vertising columns. J. M. Lee, Cy. Clk.: Wm. Mayor; Alex. Potter, Consult. Engr., 157 Broadw York.

York.

BELLEFONTAINE, O.—J. R. Cassidy, Mayor sthat the pronosition to issue \$45,000 in honds to tem was defeated Nov. 7.

CINCINNATI, O.—The board of city affairs awa following contracts on Nov. 9 for sewer work and Guy Sts., G. W. Murray, \$2,629; Csrr and R. Sts., G. W. Murray, \$1,533; State Ave. to the Ohi J. Strack, 88,881; I. Strack also received the contract of the sewer in Bloody Run, at \$44,480.

LIMA, O.—C. E. Lynch, Cy. Cik., writes us question of issuing sewer bonds was carried No MARTINSVILLE, IND.—Bids are asked until for a 24-in. outlet sewer, with 18, 15, 12, 10 a branches; total length, about 11 miles. F. W. Cy. Engr.

Cy. Engr.

NORTH MANCHESTER, IND.—Robt. P. Woods. Cy.
Engr. of Wabash, has completed plans for a system to
be about 15 miles iong.

LAPEER, MICH.—The council has voted to construct
a sewer in district No. 5. S. D. Brown, Cy. Clk.

LAKE BLUFF, ILL.—The motion for an assessment of
\$37,500 for a system was temporarily defeated Nov. 2.

The matter will be taken to the Circuit Court.

ROCHELLE, ILL.—We sre informed that plans for a system to cost \$35.000 are being prepared by the lowa Engineering Co., Clinton, Ia. The mayor writes us that nothing further will be done this year. W. B. McHenry, Cy. Cik.

Cy. Clk.

NASSAU, IA.—Chas. P. Chase, Mgr. Iowa Engineering
Co., Clinton, Ia., writes us that the company is preparing
plans for a system for this place.

SIGOURNEY, IA.—We are Informed that the Iowa Engineering Co., Clinton, Ia., has completed the plans for
the proposed system for this city.

WEST DULUTH, MINN.—Health Officer Webster is reported to be in favor of the septic-tank system of sewage disposal.

ST. LOUIS, MO.—The assembly has appropriated \$30,000 for constructing the Tower Grove storm sewer.

EL PASO, TEX.—Bids are asked until Dec. 6 for the purchase of \$20,000 of sewer extension honds; check.

\$700. B. S. Catlin, Cy. Clk.; Jos. Magoffin, Mayor.

Stool. B. S. Catlin, Cy. Cik.; Jos. Magoffin, Mayor.
HOUSTON, TEX.—The proposition to issue \$300,000 in
5% bonds for a new system was carried Nov. 9. Alex
Potter, Engr., 157 Broadway, New York.
EL RENO, OKLA.—C. C. Brown writes us that an election was held Nov. 7 to vote on the question of issuing
\$7,000 of bonds for a sewer. Plans not yet completed.
PUBBLO, COLO.—Wm. Peach, Cy. Engr., writes us
that the preliminary plans for a combined sanitary and
storm system are prepared, and that the contract will
probably be let early in the spring, if not before.

LAS VEGAS, N. MEX.—The Las Vegas Sewer Co. has
been incorporated with a capital stock of \$10,000 by H.
O. Wheeler, J. B. Mackel, O. L. Gregory, and proposes to
construct a system for Las Vegas and East Las Vegas.

EVERETT, WASH.—The question of building a complete system for Everett is being discussed, according
to reports.

to reports.

LOS ANGELES, CAL.—The council is waiting to receive the report of Rudolph Hering, 100 William St., New York, on the system before taking steps to Improve it. GANANOQUE, ONT.—A. McCammon, Cik., writes us that Willis Chipman, Engr., 103 Bay St., Toronto, is preparing plans and estimates for a system and water-works, and that an election will probably be held early next year to vote on the question of issuing bonds. Population, 3,500.

3,500.

HAVANA, CUBA.—M. J. Dady, of Brooklyn, is in Washington to confer with President McKinley and Secretary of War Root regarding his claim for the ratification of his contract with the city of Havana for the proposed system to cost about \$12,000,000.

GARBAGE DISPOSAL-STREET CLEANING

BROOKLINE, MASS.—Bids are asked until 4 p. m., Nov. 20, for removing and disposing of the refuse other than swill for ten years, and ashes, and for erecting a crematory. Check, \$500. Geo. F. Joyce, Cik. Selectmen: Horace James, Chn. Com.

NEW HAVEN, CONN.—Local papers state that Director Troup, Street Cleaning Dept., has asked local manufacturers and owners of sprinkling earts to submit bids for supplying the city with 50 carts.

for supplying the city with 50 carts.

ALBANY, N. Y.—The board of health has adopted a resolution in asking for \$23,750 for garbage disposal, etc. to be used according to the specifications adopted Oct. 13.

LOCKPORT, N. Y.—Blds were asked by the city clerk until Nov. 13 for cleaning and sprinkling certsin streets for one year from Dec. 1. W. Hurst, J. S. Witmer and F. A. Ransom are on the committee.

NEW YORK, N. Y.—Bids are asked by the department of street cleaning until Nov. 24 for removing snow and lee from the paved streets, alleys, etc., in Brooklyn, beginning with date of execution of contract to ending of April 15.

NEW YORK, N. Y.—The Barren Island committee of

April 15.

NEW YORK, N. Y.—The Barren Island committee of the health board has decided that there is no other means by which to dispose of the city garhage than by way of the Barren Island plant. The health hoard will welcome suggestions for improving the method of disposing of the garbage. B. J. York, Chn. Com.

HOBOKEN, N. J.-Bids are asked until Dec. 13 for

SEY CITY, N. J.—Bids are asked until Nov. 21 for cleaning as follows for one year from Dec. 1: About in miles of stone pavement swept and cleaned, per die; about 1,850 lin. miles of asphalt pavement, and in for removing askes and garbage for the year, to hout \$17,000. It cost this city \$36,000 last year to 4000 miles of streets, and \$17,000 for removing the The plans provide for the division of parts of the to street cleaning divisions, which are to be placed to their particular blocks swept day and night. This mas been tried on limited scale in Mercer St. and on age Place. The specifications will also provide for ompt removal of waste paper. Jas. S. Nolan, Ch., on Sts. and Sewers.

INFIELD, N. J.—The council is considering on of buying the plant of the Piainfield Sanitary (mitte steps will be taken until next year. Addresselbe.

Rockfellow.

Ig. PA.—Kraft & Walther, Erle, have contracted for stablishment of a garbage disposal plant to cost so and is to be in operation by April 15.

RITHORE, MD.—Local papers state that Commissor of Health Jones is interested in a scheme whereby ity's garbage and waste may be turned into a profit, being tried by Boston and New York.

AND RAPIDS, MICH.—The committee is securing from W. C. Smith on the matter of reducing the ting expenses of the plant.

ating expenses of the plant.

LIET, ILL.—Bids are asked until Nov. 27 for furning the materials for constructing a garbage crema-as described in our advertising columns. W. F. lasters, Cy. Cik.; H. A. Stevens, Cy. Engr.

PAUL, MINN.—The aldermen are considering plans specifications for the collection of the garbage and plant it to the crematories. It has been agreed to two crematories to have a capacity of 100 tous a Bids for furnishing the crematories are wanted Nov. 24, as stated in our issue of Nov. 2. A. K. on, Comr. Health.

Norton, Comr. Health.

GALVESTON, TEX.—Bids are asked until Dec. 1 for furnishing and equipping two garbage disposal plants, as described in our advertising columns. No satisfactory bids for furnishing these plant were received Nov. 6. Geo. Q. McCracken, Cy. Cik. and Secy. Bd. Pub. Wks.

OAKLAND, CAL.—The committee voted Oct. 28 to recommend to the council that the city clerk ask for bids at once for the erection of a garbage disposal plant. Propositions have heen submitted by J. W. Northrup, of the San Fraucisco Garbage Crematory Co., and by another San Francisco company, represented by Col. Clemishire.

Address Councilman Schaffer.

SAN DIEGO, CAL.—The question of hullding a garbage arrying boat and also a wharf, at a cost of \$7,500, is gain being considered.

again being considered.

HACKNEY, ENGLAND.—Bids are asked until Dec. 12 for furnishing refuse destructors for the vestry. Geo. Grocott, Vestry Clk., Hackney; Robt. Hammond, Engr., 64 Victoria St., Westminster, London, S. W.

STREETS AND ROADS.

BOSTON, MASS.—Bids are asked until Nov. 17 for about 91,000 cu. yds. of filling. B. W. Wells, Supt. Streets. BROOKLINE, MASS.—At a special town meeting Nov. 9 the people appropriated \$300,000 for street improvements. NEWTON, MASS.—The street department has asked for appropriation of \$22,000 for paving.

au appropriation of \$22,000 for paving. BROOKLYN. N. Y.—Mayor Van Wyck has approved the appropriation of \$700,000 for repaving portions of 33 streets with asphalt and 11 streets with granite blocks. BUFFALO, N. Y.—E. A. Bond, State Engr., Albany, writes us that no contracts have heen let, and nothing further will be done regarding the improvement of River Road until the legislature makes another appropriation for the work.

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for the work.

ITHACA, N. Y.—The commissioners passed a resolution for grading Eddy and Cook Sts.; they also directed F. P. Spaulding to proceed with the paving with hrick and concrete of Eddy St. and Stewart Ave.

NEW ROCHELLE, N. Y.—It is stated that Col. Richard Lathers has offered the city a new road to North Pelham; he will build one end if the city will build the other.

HADDONFIELD, N. J.—The council has passed the originance for improving sidewalks, etc. Borough Engineer Haines estimates the cost at about \$44,000.

LONGPORT, N. J.—Reports state that the Oberon In-restment & Development Co. will advertise for hids for wilding and grading streets at Oberon.

audding and grading streets at Oberon.

ALLEGHENY, PA.—The council recommended the folowing contracts Nov. 7: Grading Brighton Road, John
arson & Co., \$91,005; Grading Arthur St., John Carson
& Co., \$1,274; lateral sewer, Fleming Ave., Thos. Prosser,
1.045. Robt. McAfee, Dir. Pub. Wks., was authorized to
dvertise for bids for grading, paving, curbing and sidevalking several streets.

EMSWORTH, PA.—The council has passed au ordinance
roviding for widening and grading Beaver Ave., according to reports.

READING, PA.—It is stated that G. F. Baer, Pres. Prom., is organizing a company to construct a speedwn Mount Penn; cost, ahout \$25,000.

on Mount Penn; cost, about \$25,000.

RIDLEY PARK, PA.—This town voted Nov. 7 in favor of a loan of \$14,000 for permanent improvements.

BALTIMORE, MD.—The question of paving five streets with sheet asphalt and one with vitrified brick will be discussed Nov. 16. Ordinances have heen introduced for paving portions of four streets with Belgian blocks, four with macadam and repairing one street.

WASHINGTON, D. C.—Bids are asked by the district WASHINGTON, D. C.—Bids are asked by the district provided ave. to Columbia Road, as stated in our advertising columns.

WILMINGTON, N. C.—The street committee has been with the district of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee has been with the control of the street committee the street

using columns. WiLMINGTON, N. C.—The street committee has been authorized to pave two blocks of Princess St. with brick. ALEXANDRIA, LA.—Bids are asked until Nov 25, acrording to reports, for street improvements. Ira W. Sylester, Cy. Engr.; F. M. Welch, Mayor.

SOMERSET, KY.—The question of issuing \$100,000 of turnpike honds was defeated Nov. 7.

GALLIPOLIS, O.—Bids are asked until Dec. 4 for 14,-990 sq. yds. grading foundation and paving, 7,050 ft. straight curh, 75 ft. circular curh, and gutter crossing. Specifications are on file in the office of Engineering News, 220 Broadway, New York. T. E. Bradbury, Cy. Cik. IRONDALE, O.—A road is proposed from Irondale to a point near Hammondsville. J. H. French, C. Bowman, County Comrs., Lisbon.

CHICAGO, ILL.—Bids are asked until Nov. 22 for paving portions of nine streets with macadam, eight with cedar, six with briek and one with granite, at a total cost of \$262,000. L. E. McGann, Comr. Pub. Wks.—Alderman Alling has introduced an ordinance providing for a boulevard from the Lake Front Park to Jackson Park.

OAK PARK, ILL.—Bids are asked until Nov. 20 for grading, curbing aud paving Madison St., Harlem. G. Schrade, C. Hilliner, J. H. Gold, local board.

OSHKOSH, WIS.—G. H. Randall, Cy. Engr., writes us that the city will probably not do anything regarding the paving of Main St. until this winter. The Main St. Committee has reported in favor of doing the work.

ST. PAUL, MINN.—Oscar Claussen, Cy. Engr., writes us that several large contracts for brick paving will be let by Dec. 15. Bids have not yet been advertised for.

GALVESTON, TEX.—R. H. Peek, Cy. Engr., is reported to have been ordered to prepare specifications for paving Tremont St.

FORT WORTH, TEX.—Bids are asked until Nov. 17 for bout 4,000 sq. yds. of brick paving on concrete base. J. Hawley, Cy. Engr.

MANUFACTURING PLANTS.

WOBURN, MASS.—Local papers state that the tanning lant of Beggs & Cobb was damaged by fire on Nov. 10 the extent of \$75,000.

HARTFORD, CONN.—The Columbia Electric Vehicle Co. is said to be negotiating for the purchase of the Hurtford Cycle Co.'s building, to be used for the construction of motor carriages.

of motor carriages.

ARLINGTON, N. J.—The New York Air Compressor Co. recently incorporated by J. N. Duntley, Pres., and W Pressinger, Secy., with \$100,000 capital stock, will soot build a plant in this place, according to reports, PASSAIC, N. J.—E. Ruckdeschel and Ernst Meyer, o the firm of Ernest Fr. Welssflag, of Gera, Germany, arsaid to have purchased a piece of property in this town on which they will soon erect a weaving plant to be known as the Gera Mills, which will be represented by C. Bohn sen, 462 Broome St., New York.

PERTH AMBOY, N. J.—The Standard Undergroup.

PERTH AMBOY, N. J.—The Standard Underground Cable Co., Pittsburg, has purchased 8% acres of land in this town on which it is erecting a plant to cost about \$250,000, the buildings being now under construction. The main one will be 350 ft. long and 65 ft. wide.

GREENSBURG, PA.—It is reported that H. Y. Haws, Johnstown, has purchased 14 acres of land at Penn Sta-tton from the Penn Gas Coal Co. and will soon begin the construction of a \$100,000 plant for the manufacture of silica fire brick.

PHILADELPHIA, PA.—Local papers state that the concators have received the plans for the 6-story brick and on building to be built by the Baldwin Locomotive orks as an extension to its plant.

RANKIN, PA.—Chess Bros., Pittsburg, Pa., contemplate making an addition to their nail plant at this place, by constructing a new open-hearth furnaee.

WILKESBARRE, PA.—Wm. T. Henry, Fail River, Mass., Clarence Whitman, New York, and other capitalists of this city, are said to be interested in the formation of a new company, to be capitalized at \$500,000, that will creet a cotton mill to employ 400 hands.

BALTIMORE, MD.—The directors of the Maryland Brewlug Co. are said to be considering the question of constructing a new plant at Knoxville, Tenu., to cost about \$150,000.

SOUTH BALTIMORE, MD.—It is stated that the Mary-land Car Wheel Works is making preparations for the erection of a plant in this town with a capacity of 4001 wheels a day.

wheels a day.

CHARLOTTE, N. C.—L. L. Poweil, H. T. Dekker and Troop Mason, of Dekker, Mason & Co., New York, are said to have selected a site for a large manufacturing and electric plant, to be creeted here in the near future.

GREENVILLE, S. C.—J. I. Westervelt writes us the Brandon Mills will have an addition in the way of a 3-story brick building, 14xx200 ft., for which bids will probably be asked about Nov. 30. Lockwood, Greene & Co., Archs., Boston, Mass.——Frank Hammond of the Pickens Mfg. Co., writes that the subscriptions for stock for that company will be completed about the first of next year.

ARLINGTON, GA.—Local papers state that a cotton f tory is proposed for this town, to cost about \$100,000. S. Withaus has offered to take \$50,000 worth of stock the new company, providing the people take up the rema

Ing \$50,000.

CARTERSVILLE, GA.—Local papers state that W. H. Howard, representing a company, has obtained option from the board of directors of the Cartersville Laud Co., on a piece of property ou which the company will hulla a cotton mill equipped with 3,500 spindles, to cost about \$75,000.

COLUMBUS, GA.—We are Informed by the president of the Eagle & Phoenix Mills that the contract for the machinery for the company's plant has been let; also, the contract for the building, which will be five stories high and of brick, to eost about \$25,000, has been awarded to Geo. A. Clayton, Atlanta. The contract for boilers and engines has not been let.

LAGRANGE, GA.—Local papers state that the Mutual

engines has not been let.

LAGRANGE, GA.—Local papers state that the Mutual Aid Society, through Cicero Bevis, has purchased the Old Towns place of 150 acres, on which a cotton mill will be erected to be operated exclusively by negroes.

HUNTSVILLE, ALA.—It is reported that the board of directors of the Dallas Mfg. Co. are considering the question of expending \$700,000 in the enlargement and improvement of the Dallas Mills.

VICKSBURG, MISS.—It is stated that the Diamoud Match Works will enlarge its plant so as to double its capacity. The machinery of the Gould plant at Detroit is to be used.

BRISTOL, TENN.—The Columbian Paper Co., Philadel hia, is reported to be about to erect a pulp mill here t

CHATTANOGA, TENN.—Local papers state a number of New England capitalists have asked the Chamber of Commerce for the location of a large sewing machine plant. The corporation will be capitalized at \$200,000.

plant. The corporation will be capitalized at \$200,000. NASHVILLE, TENN.—We are informed that the coutract for constructing the new buildings for the Nashville Hoslery Mills plant, has been let to N. G. Rives, and will cost about \$8,000. The structures, which were designed by Thompson & Ferguson, will be as follows: Main building, four stories, 44×150 ft.; dye house, two stories, 30×60 ft.; engine and holler house, 40×40 ft.; store house, 30×50 ft.

30 × 50 ft.

FAIRPORT, O.—The Holley Steel Co., which is being formed by Cleveland capitallists, has 1,000 acres of land under option on which it will build a plant with a capacity of 600 tons a day, to cost about \$5,000,000.

CHICAGO, ILL.—The South Chicago Furnace Co. Is said to be making arrangements for extensive additions in the shape of new blast engines, pumps and an engine-house, to cost in all about \$200,000. The company will put in two new blast furnaces in the spring to cost about \$700,000.

\$700,000.

St. LOUIS, MO.—Conrad Kellerman has received the general contract for the work on the new plant of the St. Louis Elevator & Cold Storage Co., at \$180,000. The contract for the Iron work has been awarded to the Brown-Ketchum Iron Works, Indianapolis, Ind., at \$75,000. The plant will cost about \$500,090.

RUSK, TEX.—Plans for the plant of the Rusk cotton and woolen mills are being prepared and the work will start as soon as completed, according to reports. T. C. Nuby, Gen. Mgr.

SPOKANE, WASH.—It is reported that a company has been incorporated by Patrick Clark, A. B. Campbell, J. C. Wakelled and others, with \$100,000 capital stock, for the purpose of engaging in the manufacture of ice on a large scale. A plant with he constructed upon the selection of a site by the company.

CHEYENNE, WYO.—Press reports state that a smelter is to be erected at the American mine in the Mountain Home district, to cost about \$100,000.

HAMILTON, ONT.—The Hamilton Blast Furnace Co. is reported to have decided on rebuilding and enlarging its furnaces, at a cost of about \$50,000.

MEXICO, MEX.—John Brantiff, Jr., Mexico City, has applied to the department of encouragement, for permission to construct an aluminum factory here, at a cost of about \$1,000,000, according to reports. It is proposed to nitilize water power in Vera Cruz.

COVENTRY, ENGLAND.—The Coventry Pure Ice & Cold Storage Co., Lid., has heen organized with a capital of \$50,000, to erect an Ice manufacturing plant and cold storage warehouse, etc., and will soon send out requisitions for its entire plant.

HULL, ENGLAND.—The United Ice Co. has been organized with a capital stock of \$200,000 to huild a plant

tions for its entire plant.

HULL, ENGLAND.—The United Ice Co. has been organized with a capital stock of \$200,000 to huild a plant with a capacity for 120 tons of ice a day. The plant will cost \$155,000. E. B. Cargill, T. Hamling, and J. Walton are interested. Walter Scott, Secy.

PARIS, FRANCE.—Reports state that La Societe Francaise pour la Construction Electriques of Paris has increased its capital from \$50,000 to \$200,000, in order to extend its husiness.

MILAN, ITALY.—An Employee.

creased its capital from \$70,000 to \$200,000, in order to extend its husiness.

MILAN, ITALY.—An English paper states that the Societa Italiana per l'Industria dei Tessuti Stampata, or the Italian Printworks Co., has been formed with a capital of 15,040,000 flre, or \$3,000,000, with power to Increase to 24,000,000, to undertake the business of printers and finishers of cotton, woolen and slik goods. The company will take over the print works of De Angell & Co., Milan, weaving, dyeing and print works of M. Ackernmann & Co., of Crusmatlo, and of A. Blumer & Co., of Aglie. M. Ackermann, Alb. Blummer and other manufacturers will be members of the board. Ernest de Angell, Mgr.

DUNEDIN, N. Z.—The New Zealand Refrigerating Co. is said to have increased its capital stock to \$300,000, to make improvements to its plant to cost about \$100,000.

SHANGHAI, CHINA.—The Shanghal Ice, Cold Storage & Refrigeration Co., it is reported, will put to new machingry and additional power.—The Shanghal Paper & Pulp Co. has been organized with a capital stock of \$200,000, to build a paper mil to cost over \$100,000. Considerable machinery has already been purchased by the American agents. So far, contracts are said to have hen let to the Lane & Bodley Co., Cincinnati, U., the Beloit Iron Works, all machinery to be delivered by April. Lamar Lindon, Engr.

GAS PLANTS.

RICHMOND, VA.—The council has appropriated \$21,500 for improving the City Gas Works. Address Councilmen Wallerstein and Gibson.

TERRE HAUTE, IND.—Geo. West, E. E. Osborne and I. W. Martiu, of Chicago, have asked for a franchise for new gas company, which, it is claimed, will furnish gas it less than \$1 per 1,000 ft., according to reports.

OSHKOSH, WIS.—Reports state that E. P. Sawyer has surchased the Gas Light Co., for about \$150,000, and will nake large extensions.

TOPEKA, KAN.-W. J. Faulkner, Chicago, has secured a franchise from the city to erect a gas and electric light plant, according to reports.

LOS ANGELES, CAL.—The Graham-Loftus Oil Co. has sunk a well which yields 20 barrels of oil an hour, ac-cording to reports.

SAN FRANCISCO, CAL.—The Consolidated Oliuda Oil Co, is reported to have suuk a well in the Fullerton field with an average of 108 barrels per day.

MISCELLANEOUS CONTRACTS.

PIER.—Chicago, III.—Henry Ives Cobb, Arch., is reported to be about to build a 600-ft. pier off Belmont Ave.
RIVER WORK.—Cleveland, O.—City Eugineer Ritchie has completed plans for the widening of the river at Collision Bend.

PIER.—Philadelphia, Pa.—Armstrong & Printzenhoft have been awarded the contract to erect an 80×540 -ft pier at Race St.

TELEPHONE.—Kokomo, Ind.—The council has granted 15-year franchise to the New Long Distance Telephone o., according to reports.

Co., according to reports.

TELEPHONE.—Racine, Wis.—Plans are being prepared, according to reports, for five telephone exchanges for the Wisconsin Telephone Co.

TELEPHONE.—Greensburg, Pa.—It is stated that the Bell Telephone Co. has asked permission to lay an underground cable system here.

COAL DOCK.—Two Harbors, Minu.—Reports state that the Duluth & Iron Range R. R. will build a larger coal dock, the present one being too small.

DRY-DOCK.—Astoria, Ore.—Reports state that the Astoria Progressive Commercial Association proposes to build a dry-dock to cost about \$600,000.

TELEPHONE.—Pensacola, Fla.—An ordinance has been introduced granting the Southern Hell Telephone Co. a thirty-year franchise, according to reports.

wharf,—Providence, R. I.—Wm M. Harris is reported to have purchased a large piece of water-front from the Tuher Estate, and will soon erect the wharf.

PARK.—Philadelphia, Pa.—The park hoard is reported as considering the question of issuing \$250,000 in bonds for the purpose of enlarging Fairmount Park.

TELEPHONE.—Rome, N. Y.—Bids are asked until Nov. 21 for installing a telephone system, etc., at the Rome State Custodial Asylum. J. F. FitzGerald, Supt.

PARK.—Cleveland, O.—Reports state that the city will purchase ahout six acres of land in the Haymarket District for a public park, and also to erect bath houses.

BOARD WALK.—Atlautle City, N. J.—Bids are asked until Nov. 20 for removing and re-creeting about 1,140 ft. of wood and steel board walk. D. R. Barrett, Chn. DIPPER DREDGES.—Montgomery, Ala.—H. P. Chan-

DIPPER DREDGES.—Montgomery, Ala.—H. P. Chan-ler, chief clerk, writes us that Capt. C. A. F. Flagler, U. Engr., received no bids Nov. 3 for building two dipper

DREDGING -Boston, Mass.—The only bid for dredging in Broad Sound received Nov. 13 at the office of the U. S. Engineer was from Aug. R. Wright, Portland, Me., at \$601,979.

TELEPHONE.—Crookston, Minn.—The Northwestern Telephone Exchange Co. has, according to reports, decided to extend its line along the route of the Great Northern's St. Vincent line.

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PARK.—San Diego, Cal.—L. J. Davids, Cy. Engr., writes a that plans have been completed for a 50-acre park, in-lading two earth dams, 25 and 30 ft. high, and a dis-

WHAITF.—Pensacola, Fla.—The Louisville & Nashville R. R. has purchased the Commandancia St. wharf, and will replace it with a new one to be 1.227 ft. long, and will erect on it a warehouse 1.202 × 50 ft.

MINING.—Bon-Khadra, Algeria.—It is stated that La Societe des Mines de Bon-Khadra has heen formed in Brussels, Belgium, to acquire and develop zinc deposits at Bon-Khadra. Capital stock, \$200,000.

AIR COMPRESSING MACHINERY.—London, Eng.—Bids are asked until Jan. 1 for furnishing air compressing machinery for Kangoon. Address Oglivy, Gilianders & Co., Engrs., Sun Court, 67 Cornhill, E. C., London.

BREAKWATER.—Sheboygan Harbor, Wis.—Bids are saked until Dec. 14 for building a crib breakwater at Sheboygan Harbor, by Capt. J. G. Warren, U. S. Engr., Milwaukee, Wis., as stated in our advertising columns. WET BASIN.—Boston, Mass.—Reports state that the bay department will try to bave the contract of the Fitchburg R. R. Co. to build the wet basin at the navy yard cancelled, owing to the company's delay in starting work.

DRAINAGE.—Hlack River Falls, Wis.—Judge Wyman has appointed W. P. Wheelahan, of Necedah; G. A. Marvin, of Mather, and I. C. Baldwin, of Manston, a committee to ascertain the cost of draining the swamps of Juneau county, which will be about \$40,000.

county, which will be about \$40,000.

CUKE.—Neuhansen, Switzerland.—The Aluminum Industrie-Actien Gesellschaft, of Neuhausen, has asked for the names of coke manufacturers and dealers. This company uses about 10,000 tons of coke a year, and wishes to secure prices of the American product.

SEA WALL.—Boston, Mass.—The following bids were received by Wm. Jackson, Cy. Engr., Nov. 6 for building a sea wall on Dorchester Ave.: L. Miller, \$47,374 (accepted); Wm. J. Lawler, \$48,288; Central Contracting Co., \$51,500; W. L. Ellis & Co., \$53,400; Rose & Fowler, \$67,918.

COMFORT STATION.—New York, N Y.—The following bids were received Nov. 2 for erecting a public comfort station at the Zoological Park in Broux Park, Broux: T. B. Timpson Co., 1231 Franklin Ave., \$16,550; J. R. Sheehan, 62 E. 90th St., \$18,850; P. K. Lantry, 20d E. 50th St., \$21,300.

\$21,300.

TURNTABLES, LOCOMOTIVES, ETC.—Brusseis, Belgium.—Reports state that the minister of railways, posts and telegraphs, Brusseis, wants bids for furnishing 70 locomotive turntables, 25 locomotives and a large quantity of wheels and axles. I. P. F. Blancquaert, Ch. Dir. Rolling Stock, State Railways.

LOCOMOTIVES.—St. Petersburg, Russis.—Press reports state that the Russian government will, within six weeks, ask for plans, specifications and bids for about 600 locomotives for the Trans-Siberian railway. V. A. Messoyedoff-Ivanoff, Pres. Bd. State Railway Administration, Fontanka, 117 St. Petersburg.

TENNEL.—Calcutta, India.—Reports state that plans

TUNNEL.—Calcutta, India.—Reports state that plans are being considered for a tunnel under the Hooghly litver here. thus plan is for two fron-lined tunnels, each 17 ft. In diameter and 10 ft. apart in the clear. The river at this point is about 36 ft. deep at low water, and it is proposed to have the tunnel pass 12 ft. beneath the bed.

Marysville, Wash., 300 ft., \$12; total, \$3,600. Chas. E. West, index, Wash., 1st 100 ft., \$12; 2d 100 ft., \$13; 3d 100 ft., \$14 a lin. ft.; total, \$3,500. W. C. Shattuck, index, 300 ft., \$13; total, \$3,900; J. Hummert and J. Hanbury, Seattle Hotel, Seattle, \$3,900; J. Hummert and J. Hanbury, Seattle Hotel, Seattle, \$14; timbering to be paid for extra; total, \$4,200; Miller & Co., Galena, Wash., 500 ft., \$14 a lin. ft; total, \$7,000. This will be a cross-cut tunnel of four rius, and will be 5×7 ft. in the clear.

STREET SPIRINKLING.—Pasadena, Cal.—Heman Dyer, Cy. Cik., Informs us that the following bids were received Oct. 30, 1899, fnr street sprinkling, (1) being for day service, per bour; (2) for night service, per hour; (3) for day and night service, not specified; (4) price per 10,000 gallons; (5) term of contract; all except Chambers are local bidders: Chas. Mushrush, (3) 40 ets.; (4) \$2. J. W. Ritzman, (1) 28 ets. and 294, ets.; (2) 33 ets.; (4) \$1.50; 30 ets.; (4) \$1.50 and \$1.40; (5) 3 or 5 years. W. H. McNelly, (1) 29 ets.; (2) 33 ets.; (2) 35 ets.; (4) \$1.50; (5) 3 or 5 years. Allin & Reld, (1) 37½ ets. and 35 ets.; (2) 40 ets.; (5) five years. Allin & Reld, (1) 37½ ets. and 35 ets.; (2) 40 ets.; (5) five years. Sid. Sid., three years; 35 ets., five years; 334/c ets., three years; 35 ets., five years; 339/c ets., three years; 35 ets., five years; 339/c ets., three years; 35 ets., five years; 36/d ets., three years; 36 ets., five years; 36/d ets., three years; 37 ets., five years; 38/d ets., three years; 36 ets., five years; 36/d ets., three years; 36 ets., five years; 36/d ets., three years; 36/d ets., five years; 36/d ets., three years; 37 ets., five years; 38/d ets., three years; 38/d ets., five years; 38/d ets., three years; 36/d ets., five years; 36/d ets., three years; 36/d ets., five years; 36/d ets., five years; 36/d ets., three years; 36/d ets., five years; 36/d ets., five years; 36/d ets., three years; 36/d ets., five years; 36/d ets., five years; 36/d ets., three years; 36/d ets., five years;

We have received no information regarding the hids for furnishing 10 or more sprinkling carts of 600 galions capacity.

GRADING, CURBING, ETC.—Passalc, N. J.—The following bids were received by the street committee Nov. 3, 1809, for grading, curbing, etc., in Myrtle Ave., from Home Ave. to Main Ave., in all about 20,000 cu. yds.: J. J. Van Noordt, 41 cts. a yd.; Wm. DeVogel, 47.5 cts.; Wright & Lindsley, 52 cts., and Maybury & Son. 68 cts. Mr. Van Noordt hid 52 cts. for curb and Maybury 58 cts. ASPHALT PAVING.—Chicago, Ili.—Bids were opened Nov. 8 for asphalt paving, to cost about \$380,000. The Bermudez Asphalt Co. submitted the lowest bid at \$1.87 or asphalt paving in Hamilin Ave., from Lake St. to Madison St. The asphalt bids ranged as high as \$2.18 a yd. Chas. J. Kelley submitted the lowest hid at \$1.87 a yd. or brick paving in Canal St., to cost about \$60,000. The bids for brick, cedar block and granite paving were the same as usual. The following are the bids on the more important streats: Astor St., asphalt, \$2.15; Market St., granile, \$2.16; Canal St., brick, \$1.87; Flournoy St., asphalt, \$2.13; 443 Ave., asphalt, \$2.15; Market St., granile, \$2.16; Ilamilin Ave., asphalt, \$2.16; Lexington St., asphalt, \$2.18; Kedzie Ave., asphalt, \$2.16; Lexington St., asphalt, \$2.16; May St., asphalt, \$2.16; West Ilpth St., asphalt, \$2.17; Locus Ct., asphalt, \$2.16; West Ilpth St., asphalt, \$2.17; Day Jerry Cts., asphalt, \$2.16; May St., asphalt, \$2.16; West Ilpth St., asphalt, \$2.17; Day Jerry Cts., asphalt, \$2.18; Cordinated in Ave., asphalt, \$2.16; Excington St., asphalt, \$2.17; Day Jerry Cts., asphalt, \$2.18; Cordinated in Ave., asphalt, \$2.18; Cordinated in Ave.

THE AMERICAN IMPULSE WHEEL CO., 120 Liberty St., New York, has recently shipped the machinery for an electric transmission plant in Sweden.

THE RUFFALO FORGE CO., Buffalo, N. contract for the hot hlast heating and ventua for the new shops of the German Garvin M. Berlin.

THE CANTON ROLL & MACHINERY CO Ohio, has completed its plant for the mana chilled, sand and semi-steel rolls and rolling chinery.

THE PRESSED STEEL CAR CO., Pittsbur, ning an addition to its Woods River plant to ground recently purchased from the Baker Wagon Iron Co.

THE MAPES-REEVE CONSTRUCTION CO sau St., New York, is insolvent, and Henry M been appointed by the court referee to inqui-application of the company for a voluntary di-

THOMAS CARLIN'S SONS, Allegheny, Pa, a that the interest of John H. Carlin has been p by W. J. Carlin, by whom the business will be as heretofore under the name of Thomas Carlin. The company has removed its offices to 380 to 32 Ave.

W. J. CARLIN CO., 514-515 Park Raw B York, and 610-611 Lewis Bldg., Pittsburg, Pa., purchased the large mining and concentrating Brewster, N. Y., and will dismantle it at on said that this plant was equipped without any expense.

said that this plant was equipped without any regard to expense.

THE WEIR FROG CO., Cincinnati, is very busy at preent and has just shipped several carloads of material Honolulu, II. 1; also shipments to Parrao, Mex. Bomestic trade is also very briek. Monterey, Mex. Domestic trade is also very briek. The plant is running overtime every da Two 500-HP. Stirling boilers and additional new methinery has been installed, increasing the capacity of the plant 80% during the past six months.

THE DAYTON GLOBE IRON WORKS CO. Dayto Ohio, manufacturers of gas englines, water wheels, to bines, etc., has just erected in its foundry a ten-ton-electric traveling crane huilt by the Cleveland Crane & Co., Cleveland, O. The crane is of 50-ft. span, is equipped with five Thresher Electric Co. dynamos, and is the on electric crane in a foundry in Dayton. The company reports a large business in all departments.

THE CLARK ENGINE & BOILER CO., Kalamazo Mich., has an order for 21 engines averaging 20 HP each and 28 boilers aggregating 500 HP., for shipment England. W. R. Brixey, 203 Broadway, New York, and the contract for 40 miles of rubber-cover feed cable for the Havana Electric Ry. Co., costing \$18.000. Mr. Brixey has recently shipped \$150,000 worth telephone wire to Japan, and made other shipments England and the British colonies.

THE NEW YORK AIR COMPRESSOR CO., 120 Lie and 22 to the contract for the shipment and the British colonies.

100. Mr. Brixcy has recently shipped \$150,000 worth of telephone wire to Japan, and made other shipments to England and the British colonies.

THE NEW YORK AIR COMPRESSOR CO., 120 Liberty St., New York, has been organized under the laws of the state of New Jersey, with a capital stock of \$100,000. A complete foundry and machine shop plant has been purchased on the line of the New York & Greenwood Laker. R. at Arlington, N. J., and contracts have already been let for a full equipment of tools. It is intended to manufacture a complete line of air compressing machinery Pres., J. W. Duntley; Vice-Pres., Alexander MacKay; Secy. and Treas., W. P. Pressinger.

THE RITER-CONLEY MFG. CO., Pittsburg, is announced in a press report to have secured a foreign order, through an Amsterdam house, for six steel oil tanks, each having a capacity of 100,000 liters. The tanks are intended for the Dordtsche Petroleum Maatschappif, or Sourabaya, Java. The report states that the works of this company have been going day and uight for more than 12 months; that the capacity of the structural shops has been doubled, and that the company has now in band more than \$5,000,000 worth of foreign contracts.

THE WEFUGO CO., Cincinnati, manufacturers of water softening plants, is just instailing a 6,000-HP, plant for the Lucy Furnace, Carnegie Steel Co., Pittsburg, Fa. also a 1,250-HP, plant for Westinghouse, Charch, Kerra & Co., for the Toledo, Fremont & Norwalk Electric Ry. at Fremont, O., in connection with a 4,000-HP, power station. Last spring the Wefugo Co. installed at the Lorain Steel Works, Lorain, O., a 12,000-HP, water softening plant, which is now to be duplicated at the Bessemer plant, Lorain, O., of the same company.

THE GOULDS MFG. CO., Seneca Falls, N. Y., announces that it has purchased ten acree of land on which will be erected additions to its plant. The plans for the new buildings show a machine shop 258 x100 ft, bolier house 44 x 67 ft., a foundry 122 x 85 ft., and a pattern warehouse 78 x 30 ft.; also coke and sand sheds

rew days.

THE LANE & BODLEY CO., Cincinnati, has a contract to build a four-cylinder, triple-expansion Corliss engine for a paper mill at Shanghal, China; also a large saw mill outfit, with a capacity of 50,000 board feet a day, for New Zealand. The company is also building a large cross compound duplex gas compressor to be shipped to the Indiana gas helt. The steam cylinders are 30 x 4 x . 48 lns., and the gas cylinders are 16 x 48 lns., and it will compress to 300 lbs. pressure to the sq. in. The company has just shipped to the Pittsburg Water-Works the steam end of a duplex pumping engine of 5,000,000 gallons daily capacity, which will be used in connection with a Laidlaw-Dunn-Gordon pump. The company is also building six 300-HP. steam engines to drive irrigating pumps in Texas, and reports great activity in all departments.

THE ROEBLING CONSTRUCTION CO., 121 Liberty

pumps in Texas, and reports great activity in all departments.

THE ROEBLING CONSTRUCTION CO., 121 Liberty St., New York, announces that its system of fireproofing is being used in a new residence on Greenwood Ave., Chicago. All the floors are of this construction, with 1-beam framing. On Oct. 30 a loading test was made on a section of arch 5 ft. 10 lns. span, and 3 ft. 10 ins. long, with a rise of 8 lns., being %-in at the crown and 11 lns. at the haunches. The beams were 12 lns. deep. On the rods and wire netting sprung between the flanges of the heams was laid the cinder concrete, composed of 1 part Atlas Portland cement, 3½ parts coarse sand and 6½ parts power-house cinders. The concrete was shovelied in loosely and not tamped. It was laid Oct. 4. This section of the floor was loaded with bricks and cement in hags to a total of 1,239 lbs. per sq. ft., with a total The architects of the huilding are Frost & Granger, of The Temple, Chicago, and the Falkenau Construction Co. had the contract for erection. The test was conducted under the supervision of Mr. J. T. Montgomery, Western agent of the Roehling Construction Co., 171 Laks St., Chicago.

Itids Received at Boston, Mass., Nov. 6, 1899, for Grading the Revere Beach Parkway.

	Earth,		Filling material,					
Bidder.		cu.yds.						Total.
	cu. yds.		290,000	500	200	400	530	
Albert H. Eichern, Boston		\$2.50	80.85*	\$0.65	\$0.90	\$1.25	\$5.00	\$294,405
Ward & Conlin, East Boston	. 45	1.65	.75	.85	.95	1.35	4.50	255,645
Nawn & Brock, Boston	.27	1.25	.75	.50	1.00	1.00	8.00	245,615
H. W. Varnum, Caribou, Me	.33	1.43	.59	.45	.55	.69	5.50	201.917
F. W. McCusker, Waltham, Mass	28	1.25	.54	. 413	.60	1.00	5.00	183,445
Coleman Bros., Charlestown, Mass	. 25	.90	.54	.45	1.00	1.50	4.25	178,958
Massachusetts Grading Co., Boston	25	1.50	.44	.40	.50	1.00	7.00	156,310
					0			

FIRE ENGINES AND SUPPLIES.—Pittsburg, Pa.—The following bids were received Nov. 3 by J. O. Brown for furnishing fire engines and engine-hnuse supplies: Manchester Locomotive Works, one first-size steam engine, \$5,000; two at \$4,700; two second-size engines, \$4,500. American Fire Engine Co. & La France Steam Fire Engine Co. bid the same. Fire Extinguisher Mfg Co., one 60-ft. chemical and hydrostatic pressure-raising water tower, \$5,950; one 65-ft. water tower, raised by screw power, \$6,300; one semi-truss base ladder, with turn-table hook and ladder truck and 35-ft. ladder, \$3,250; with 55-ft. ladder, \$3,550; 60-ft. ladder, \$3,850; 75-ft. ladder, \$3,950. Chas. T. Holloway & Co., one or more combination chemical engines and bose wagons, of wood, \$2,575; one or more combination chemical engines and hose wagons, of steel, \$2,660.

CONTRACT PRICES.

ASPHALT PAVING.—New York, N. Y.—The department highways received the following hids Nov. 14, 1899, for sphalt paving on present foundation in 65th St., from

Third to Lexington Ave.:					
	Pave-		Cur	n	
	-me	nt-v	-sto	ne-	No. P.
Bidder.	Asphalt, 1,510 sq. yds.	Old stone blk,1.540 sq. yds.	New, 790 lin. ft.	01d, 110 lin. ft.	muble co ers, wate
Asphalt Construction Co	\$2.94	\$0.22	\$0.80	\$0.28	\$20.00
Atlantic Alcatraz Asp. Co.		.23	.78	.23	22.50
Barber Asp. Paving Co		.40	.80	.30	22.00
Fruin-Rambrick Paving C		.39	.82	.29	21.00
Wurren-Scharf Asp. Pvg.C			.86	.27	22.00
Sicilian Asphalt Paving C			.73	.23	22.00
Uvalde Asphalt Paving Co	0 2.62	.28	.70	.23	22.00
DREDGING -Boston Mc	100 - A 11	en etne	DY	Kelebi	Dont

DREDGING.—Boston, Mass.—Augustus R. Wright, Port-land, Me., submitted the only bid Nov. 13, 1889, for dredg-ing in Broad Sound, Boston Harbor, at 72 cts. a cu. yd. for dredging and \$25 a cu. yd. for removing howiders of over six tons each. Col. Chas. R. Suter, U. S. Engr.

over six tons each. Col. Chas. R. Suter, U. S. Engr.
TUNNEL.—Seattle, Wash.—C. Lovejoy, Secy. Bonanza
Mining & Smelting Co., SI Sullivan Bldg., Seattle, writes
us that the following bids were received Oct. 4 tor driving
a tunnel 300 or 500 ft.: A. Venette & Co., Cosmopolitan
Hotel, Seattle, \$10 a lin. ft.; total, \$5,000. Awarded contract Oct. 12 for 500 ft. from present face of tunnel,
which has a depth of 60 ft. J. W. Watkins, Renton,
Wash., 200 ft., \$12 a ft.; 3d 100 ft., \$11; 4th and 5th 100
ft., \$12; total, \$5,500. J. Coughlin and W. O'Donohue,
Index, Wash., 300 ft., \$12; \$3,600. Turner, Main & Co.,

BRIDGE ABUTMENTS.—Indianapolis, Ind.—The following bids were received by the board of public parks Nov. 6, 1809, for the stone abutments for the Illinois St. bridge: Capitol Paving & Construction Co., \$9,002; Otto Strange, \$11,188; Robbins & Cooper, dry excavation, 20 ets. a cu. yd.; wet excavation, \$1.50 a cu. yd.; masonry, \$6.50 a cu. yd.; coping, 40 cts. a cu. ft.; lumber, \$25 a M., B. M.; William Fife, dry excavation, 25 cts. a yd.; wet excavation, \$1 a yd.; masonry, \$6 a yd.; coping, 50 cts. a cu. ft.; lumber, \$20 a M., B. M.; Koss & Fritz, dry excavation, 30 cts. a yd.; wet excavation, \$1 a yd.; masonry, \$7.50 a cu. yd.; coping, 45 cts. a ft.; lumber, \$22 a M., B. M.; foothridge, \$250. CURBING.—Des Moines, 1a.—E. Van Dyke & Co. have

a yd.; masonry, \$7.50 a cu. yd.; coping, 45 cts. a ft.; lumber, \$22 a M., B. M.; foothridge, \$250.

CURBING.—Des Moines, 1a.—E. Van Dyke & Co. have been awarded the contract for curbing, at 39 9-10 cts. a lin. ft. The contract for lemporary sidewalks, 5½ ft. wide, has been let to John Griffin, at 36½ cts. a lin. ft.

PAVING.—Omaha, Neh.—The board of public works received the following bids Oct. 27, 1890, for certain paving: Ames Ave., from 22d to 25th St., Grant Paving Co., \$2.37, asphalt; W. P. Mumaugh, \$1.50, brick; Hugh Murphy, \$2.39; Barher Asphalt Paving Co., \$2.42, asphalt; Katz & Crandell, \$1.55, brick. 42d St., from Cuming to Hamilton, Barber Asphalt Paving Co., \$2.08; the Grant Paving Co., \$2.09; lyugh Murphy, \$2.13, on asphalt; W. P. Mumaugh, \$1.75; Katz & Crandell, \$1.70, brick. Burt St., from 38th to 40th St., Barher Asphalt Paving Co., \$2.14; Hugh Murphy, \$2.17; the Grant Company, \$2.09; W. P. Mumaugh, \$1.75; Katz & Crandell, \$1.30, brick. 22d st, from Davenport to California, Barber Asphalt Co., \$1.89; Hugh Murphy, \$1.19; the Grant Co., \$1.97; W. P. Mumaugh, \$1.24½; Katz & Crandell, \$1.30, brick. SCREENINGS, ETC.—New York, N. Y.—The park department received the following hids Nov. 2, 1890, for trap-rock screenings for Grand Ave., Bronx: Jacob E. Conklin, 135 Front St., \$1.44; J. F. Quinn, 129 Broad St., \$1.75; E. P. Mahony, \$1.84.—About 20,000 cu. yds. of top soil or garden mould at Red Hook Park: John F, Maillie, 1245 Prospect Place, Brooklyn, 80 cts.; Norton & Gorman, Brooklyn, 90 cts.; Bart Dunn, \$1.68; William Young, \$1.34.

INDUSTRIAL NOTES.

WM. B. SCAIFE & SONS. Pittsburg, are manufacturing and erecting a large har mill building; also a holler house, both of steel frame construction, as additions to the plant of the W. Dewees Wood Co., at McKeesport.

FRASER & CHALMERS, 568 Washtenaw Ave., Chicago, has a contract from S. S. Fowler, of the Ymir Gold Mines, Ltd., British Columbia, for machinery for a mill of 40 additional stamps, making a total milling capacity of 80 stamps.

DO YOU WANT TO PURCHASE SUPPLIES? —— ALL THE PROMINENT MANUFACTURERS READ ENGINEERING NEWS.

ADVERTISE FOR BIDS IN THIS PAPER AND SECURE PESIRABLE COMPETITION.

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