#### CONTENTS OF SUPPLEMENT.

PERSONAL	217
THE PING SOCIETIES	41.4
Coming Technical Meetings	
and that of Contracts Fending	217
Hallways	
Leading Light and Power	610
mailtens	219
Duddings	$\frac{219}{220}$
	$\frac{220}{220}$
	221
Streets and Roads	221
*** **********************************	221
Gas Planteous Contracts  Miscellaneous Contracts  Contract Prices	221
Contract Prices	21313
INDUSTRIAL NOTES New Companies	223
PROPOSALS	

#### PERSONAL.

Mr. O. A. Yeakum, of St. Louis, Mo., has been ap-ointed General Traffic Manager of the Tennessee Central R. R.

Mr. William M. Stuart, of Detroit, Mich., has been appointed Chief of the Manufactures Division of the Census Hureau for 1900.

Mr. Samuel Rea, M. Am. Soc. C. E., First Assistant to the President of the Pennsylvania R R., has been promoted to be Fourth Vice-President.

Mr. Stiliman W. Wheelock, formerly with Park, Brother & Co., Ltd., has been appointed Sales Agent in charge of the Denver office of the Illinois Steel Co.

Mr. Fred. W. McNair, Professor of Mathematics and Physics of the Michigan College of Mines, at Houghton, Mich., has been elected President of that institution.

Mr. Lewis E. Hellows, of Holyoke, Mass., for the last en years with the Deane Steam Pump Co., has resigned bis position as Sales Manager of that company.

Major John L. Van Ornum, U. S. Vol. Engrs., Associ. Am. Soc. C. E., bas been elected Professor of Civi M. Am. Soc. C. Engineering in Washington University, St. Louis, Mo.

Mr. William J. Carter, Assoc. M. Am. Soc. C. E., has been appointed Assistant Engineer in charge of Sewera and Drains in the Department of Public Works of Cleveland, O.

Mr. W. H. Relliy bas been appointed Master Mechanic of the Fort Worth & Rio Grande Ry., with headquarters at Fort Worth, Tex., to succeed Mr. T. J. Sheilhorn,

Mr. William H. Luster, Jr., has been elected City Surveyor of Elizabeth, N. J., to succeed the late William Colgan. He graduated from Rutgers College in 1884, Colgan. and lately has been engaged on the New York state

Mr. William A. Patton has been elected President of the New York, Philadelphia & Norfolk R. R. Co., to succeed Mr. Andrew J. Cassatt, who resigned upon being ap-poluted President of the Pennsylvania R. R., as referred to in our last issue.

Mr. W. H. Marshail, Assistant Superintendent of Motive Power and Machinery of the Chicago & Northweatern Ry., has been appointed Superintendent of Motive Power of the Lake Shore & Michigan Southern R. R., vice Mr. G. Stevens, resigned.

eral Manager of the New York Suburban Water Co., of Mouat Vernon, N. Y., has accepted a position in the business department of the American Water-Works & Guarantee Co., of Pittsburg, Pa.

Mr. F. R. Pechin has been appointed Assistant Super-interdent of the Wisconsin Division of the Chicago & Northwestern Ry., with headquarters at Milwaukee, Wis., to succeed Mr. W. D. Cantilion, who has been appointed Superintendent of the Winona & St. Peter Ry.

Rear-Admiral John G. Walker, U. S. Navy, has been elected President of the commission recently appointed by President McKiniey to determine the most feasible route for a canal across the Isthmus of Panama. The personnel of the commission was given in our last isaue.

orks.

Cliv

f the

2-ln.,

and

uncii

613

Mr. W. C. Merriman, who was Engineer of the Huffalo Improvements on the New York Central & Hudson River R. R. until that office was abelished last month, has been appointed Division Engineer of the West Virginia Short Line R. R., with headquarters at New Martinsville,

Mr. Ira A. McCormack has been appointed General Superintendent in Charge of Operation of the Prospect Park & Coney Island R. R., which bas been leased by the Brooklyn Heights R. R. Co. Mr. J. C. Brackenridge has been appointed Chief Engineer in Charge of Maintenance of Way, Buildings and Construction.

Sir William C. Van Horne has retired from bis position as President of the Canadian Pacific Ry., and has been appointed Chairman of the Board of Directors, which is a new position. He was born in Hilinola in 1843, and in 1856 became a telegraph operator on the Hilinois Central R. R., going in 1858 to the Michigan Central R. R. and in 1864 to the Chicago & Aiton R. R., where he became Division Superintendent in 1869. From 1872 to 1874 be was General Superintendent of the St. Louis, Kansas City & Northern Ry., then General Manager and President of the Southern Minnesota Ry. until the end of 1879, and in 1878-79 was also General Superintendent of the Chicago & Alton R. R. Throughout 1880 and 1881 hs was General Superintendent of the Chicago, Mil-

wankee & St. Paul Ry., and in January, 1882, he went to the Canadian Pacific Ry. as General Manager. In IS81 he was made Vice-President and General Manager. and in 1888 he became President, and was Knighted by the Queen

Mr. J. N. Chester, Assoc. M. Am. Soc. C. E., of Brooklyn, N. Y., for several years connected with the sales department of Henry R. Worthington, has accepted a position with the engineering department of the American Water-Works & Guarantee Co., of Pittsburg. Pa. The company controls and operates many water-works plants throughout the United States.

Mr. Thomas G. Shaughnessy, Vice-President of the Canadian Pacific Ry., has been appointed President, to succeed Sir Wm. C. Van Horne, who has retired. He was born in Milwaukee in 1853, entered the service of the Chicago, Milwaukee & St. Paul Ry. in 1863, and became General Storekeeper in 1879. In 1882 he was appointed General Purchasing Agent of the Canadian Pacific Py., Assistant General Manager in 1885, Assistant President In 1889, and Vice-President in 1891.

A number of important changes will be made in the Transportation Department of the Baltimore & Ohlo R. R. in July. The position of General Superintendent of the Trans-Ohio lines, now held by Mr. J. M. Graham, will be abolished, and the jurisdiction of General Superintendent Thomas Fitzgerald will be extended over the main line from Philadelphia to Chicago, including its branches. Mr. Graham will become Chief Engineer, with branches. Mr. Graham will become Chief Engineer, with headquarters at Haltimore, succeeding Mr. W. T. Manning, who resigned on March 10, with Mr. P. H. Irwin as Assistant. The jurisdiction of Mr. John E. Spurrier, Superintendent of First Division and branches, with headquariers at Baltimore, will be extended over the Second Division. Mr. F. A. Husted, Superintendent of the Middle Division, will have the Third, Fourth and Fifth divisions, with headquarters at Grafton, W. Va. Mr. R. M. Sheats, Superintendent of the Pourth and Fifth divisions, will be Superintendent of the Chicago terminals. Mr. T. J. English, Superintendent of the Chicago Division, will have the Ohlo and Midland divisions, with head-sion, will have the Ohlo and Midland divisions, with head-sion. sion, will have the Ohio and Midland divisions, with head quarters at Newark, Ohlo, vice Mr. J. H. Glover, assigned to other daties. Mr. F. C. Batchelder, of the Soo Line, will be Superlutendent of the Chicago Division, with head-quarters at Garrett, Ind. Mr. Charles Galloway, Train Master of the First Division, will be Assistant Superin tendent of the First and Second divisions, with head-quarters at Cumberland, Md.

Rear-Admiral George W. Mciville, Engineer in Chief of the United States Navy, received on June 7, 1899, the Honorary Degree of Master of Science from Columbia University, New York. In introducing the Admiral to the President of the University, during the Commence ment Exercises, Professor F. R. Hutton, Head of the Department of Mechanical Engineering, spoke in part as

follows.

Mr. President: I am to present to you Rear-Admiral George W. Melville, Engineer in Chief of the United States Navy, who has been named by the Trustees for the Honorary Degree of Master of Science. It is significant that this degree is given to-day for the first time in the history of the University and that its award should be to one to whom the honor is so singularly fitting.

I present you Admiral Melville as a Master of Science, both lu that field where knowledge for its own sake is its own exceeding great reward, and also in that where the Mechanical Engineer leaves the impress of his thought and creative energy upon concrete achievements in iron and steel.

I bring you, sir, one who has mode the content and creative energy upon concrete achievements in iron

and creative energy upon concrete achievements in iron and steel.

I bring you, sir, one who has made himself, in the first place, an authority and expert upon Arctic exploration. This knowledge has been acquired in service as an officer, first upon the "Tigress" in the search for a part of the crew of the "Polaris," later as Engineer Officer of the "Jeannette" under Lieut, De Loug, and finally with the "Hear" and the "Hear.

I turn to the achievements of Admiral Melville in that other field where as Mechanical Engineer he has impressed himself upon the engineering of the Navy of our country. Melville is now serving as Engineer in Chief of the United States Navy for his third term. When he was appointed in 1888, the only modern vessels in commission were the "Atlanta," the "Bostom" and the "Dolphin," two cruisers and a dispatch boat. The twelve years of his service have enabled him as Bureau Chief to he responsible for the design and engineering of 120 ships, aggregating 700,000 P.P. Heginning with the "San Francisco," the earliest Anerican-dealgned vessel of our modern Navy, bis sound mechanical judgment, bis boldness, and his progressiveness have culminated in the "Columbia" and the "Minneapolis," each triple-screw glants, each holding for a time the world's record for speed.

glants, each holding for a time the world's record for speed.

But, sir, lest I weary with technical detail, I pass to a final reference, to that upon which Columbia to-day bases her need of praise. I refer, sir, to the significance in the war of 1898 which belongs to the preparation and the achievements of the Navy in the Spanish-American conflict. This conception of a floating machine-shop, whereby vessels could be outfitted and repaired a thousand miles from a shore basia and a navy yard, and the development of conomical distilling ships whereby a large body of men and vessels on blockade could be supplied with fresb water witbout the necessity of touching a hostile shore, and the condition of the engineering departments of our vessels when the hour of battle had struck, give Admiral Melville's leadership a significance which we are glad to bonor.

## OBITUARY.

Mr. J. Fred Moore, formerly City Engineer of Waltbam, Mass., died at his home in that city on June 18.

Col. George C. Boynton, Treasurer of the Columbian Iron Works, of Baitimore, Md., died at Bristol, R. I., on June 17, aged 50 years.

Capt. George W. Coffin, U. S. Navy, retired, is reported to have died at the Yokohama Naval Hospital. He graduated from the Naval Academy in 1863. In 1884 he commanded the "Alert" on the Greely relief expedition, and became Secretary of the Lighthouse Board in 1889. He became a Captain in 1893, and on Sept. 15, 1897, was placed on the retired list.

Mr. Hilary J. Brunot, a civil engineer and one of the pioneers in the natural gas business of Pennsylvania, died at his home in Greenshurg, Pa., on June 18, aged

Mr. George W. Phelps, builder and principal owner of the Avon, Geneseo & Mouat Morris R. R., which now forms a branch of the Eric R. R., died at Mount Morris, N. Y., on June 9, aged 78 years.

Rear-Admiral Pierce Crosby, U. S. N., retired, died in Washington, D. C., on June 15, aged 76 years. He entered the navy in 1838 as a midshipman, and served on the "Decatur" in the Mexican War. During the Civil the "Decatur" in the Mexican War. During the Civil War he was Ficet Captain of the North Atlantic Squadron under Admiral Lee.

Mr. Charles Baldwin Thurston died at his home in Jersey City, N. J., on June 14, aged 67 years. He was connected with the Pennsylvania R. R., and was the President of the Fayetleville Water, Light & Power Co. of North Carolina, the Jersey City Chain Works Co., the Richmond & Bergen Point Ferry Co., and the Millstone & New Brunswick R. R. Co., and was a member of the boards of several other corporations.

#### ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS

COMING TECHNICAL MEETINGS.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS June 26-28. Annual meeting at Boston, Mass. Seey., Raiph W. Pope, 26 Cortlandt St., New York city.

AMERICAN SOCIETY OF CIVIL ENGINEERS. June 27-30. Annual meeting at Cape May, N. J. Seey., Chas. W. Hunt, New York city.

CANADIAN ELECTRICAL ASSOCIATION.

June 28-30. Annual meeting, Hamilton, Ont. Seey., C. H. Mortimer, Confederation Life Hidg., Toronto, Chiada.

MONTANA SOCIETY OF ENGINEERS.

July S. Hutte, Mont. Seey., A. S. Hovey, Nat'l Bank Bidg., Helena, Mont.

THE LOUISIANA ENGINEERING SOCIETY.

July 10. Seey., J. F. Coleman, 712 Uniou St., New Orleans, La.

WISCONSIN STATE CHEMICAL ASSOCIATION.

July 13. Seey., I. Ladoff, 154 Knapp St., Milwankee, Wis. INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS, AMERICAN SECTION.

Ang. 15, 16. Annual meeting at Pittsburg, Pa. Seey., Richard L. Humphrey, City Hall, Philadelphia, Pa. SOCIETY FOR THE PROMOTION OF ENGINEERING, EDUCATION.

Richard L. Humphrey, City Hall, Philadelphia, Pa. SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION.

Aug. 17-19. Annual meeting, Columbus, O. Secy., Albert Kingsbury, Durham, N. H.

AMERICAN ASSOCIATION FOR THE ADVANCEMBNT OF SCIENCE.

Aug. 21-26. Annual meeting at Columbus, O. Secy., Prof. Frederick Bedell, Ithaca, N. Y. Local Secy., Prof. B. F. Thomas, Columbus, O. EASTERN MAINTENANCE OF WAY ASSOCIATION. Sept. 26. Portland, Me. Secy., F. C. Stowell, B. & M. R. R., Ware, Mass.

FRANKLIN INSTITUTE .- A paper on "Water Power Electrical Plants in the United States" was read before the Electrical Section on June 13, by Mr. II. C. Washington, Jr., of Washington, D. C.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.—The work of the association will be continued throughout the summer, but will consist of visits to irrigation, harbor, beet sugar and other works.

AMERICAN ASSOCIATION FOR THE ADVANCE-MENT OF UNINCE.—The preliminary announcement of the 48th and 121 meeting of the association, and of the several affihated scientific societies, has been issued. The meeting will be held at Columbus, O., Aug. 21-26. Prof. Frederick Bedeil, Ithaca, N. Y., is Secretary of the association, and Prof. B. F. Thomas, Columbus, O., is Local Secretary. The following affiliated national societies will hold meetings before or during the meeting of the association: Forestry, Geological, Chemical, Agricultural Science, Economic Entomologists, Mathematical, Engineering Education, Folk-Lore, Hotanical and AMERICAN ASSOCIATION FOR THE ADVANCEmatical, Engineering Education, Folk-Lore, Botanical and Microscopical.

# CONSTRUCTION NEWS.

Bids to be	OF OPENING BIDS.	r.
opened. Work.	Place, News.	
June 22. Hrick paving, S	alamanca, N. YJune I	5
Advertised, En	ineering News June 15	
June 24. Electric plant,	Newport, R. I May 2	5
Advertised, En	Newport, R. I	
June 24. Stone roads, L.	ong Hranch, N. JJune 1	5
Advertised, En	ineering News, June 15.	
June 24. Navy yard bul	lings, New York, N. YJune 1	5
June 24. Heating plant,	Hoston, MassJune 2 enfield, IndJune 2	22
June 24. Bridges (3), Gr	enfield, IndJune 2	12
June 26. Rubble stone,	Hosion, MassJune	1
Advertised, Er	g. News, June 1 to 22.	
June 26. Excavation, B	ffaio, N. YJune	1
Advertised, Er	g. News, June 1 to 22.	
June 20. Artesian Well,	farboro, N. CJune 1	ð
Advertised, Er	News, June 15 and 22.	
	Cortland, N. YJune 1	0
June 26 Water size	R. News, June 15 and 22.	m
June 26 Debuilding mo	ves, etc., Kewanee, illJune ument, Springfield, IllJune liding, Jamesville, N. YJune	10
June 26 Denitoutions by	ument, apringheid, InJune a	100
June 26 School building	s (2), Washington, D. CJune 2	100
June 26 School building	s, etc., New YorkJune 2	10
June 27 Tainter gates	b Daul Minn Tune	2
Advertised E	st. Paul, MinnJune g. News, June 1 to 22.	A
June 27 Fire hell etc.	Joboken, N. JJune	90
	enterville, Mich June	
June 27 Gravel road	shury Park N J June '	393
June 27. Paving Jersey	City, N. J June	29
June 27. Hospital build	City, N. J June June June	20
June 27. Park shelters	tc., Newark, N. J June	207
Advertised, Et	gineering News, June 22.	-
	on, MassJune	1
Advertised, E	g. News, June 1 to 22.	-
June 28. Electric plant.	St. Paris, OJune	8
Advertised, E	g. News, June 1 to 15.	
June 28. Lanterna (3).	Compkinsville, N. YJune	12
Advertised, E	g. News, June 15 and 22.	

	-
F 00 P.	
June 28. Reservoir, West Point, NebJune 15	
June 28. Garbage plant, Lancaster, PaJune 15	
June 28. Brick paving, Norwich, N. Y June 15	
Advertised, Eng. News, June 15 and 22	
June 28, Masonry arches Cleveland O June 15	
Advertised king News June 15 and 22	
June 28. Main sewer Princeton III	
June 28 Floretto night Dorton More	
June 28 Dike reces Verner 1.1	
June 23. Fike roads, vernon, IndJune 22	
June 29. Random stone, Key West, FlaJune 1	
Advertised, Eng. News, June 1 to 22.	
June 29. Dredging, Tampa, FlaJune 1	
Advertises, Eng. News, June 1 to 22.	
June 29. Waii-Channel, Albany, N. Y June 15	
Advertised, Eng. News, June 15 and 22.	
June 29. Heating, electric lighting, etc., New York, June 22	
June 29. Filter basin etc. Phoenixville Pa June 29	
Advertised Eng News June 22 and 20	
June 90 Bridge Cope Mey N. I	
Adventised Englander Name 100	
Advertised, Engineering News, June 22.	
June 30. Electric ry (23 miles), Shanghai, China. Mar. 2	
Advertised, Eng. News, Nov. 17 to Dec. 8.	
June 30. Barges (6), New Orleans, LaJune 8	
Advertised, Eng. News, June 8 to 22.	
June 30. Sewers, Marshail, MichJune 15	
Advertised, Eng. News, June 15 and 22	
June 30, Dredging, Cleveland, O June 15	
Advertised Eng News June 15 and 22	
June 20 Wafer-Works Changi Hill N C June 15	
Advertised Engineering Name Inna 18	
June 20 Water and clostic starts Delayada Missanda Missanda	
June 30. Water and electric plants, Beigrade, Minn.June 13	
June 30. Water and sewer systems, Walker, Minn. June 15	
June 30. Engine for electric plant, Prescott, OntJune 22	
June 30. Water-works, Michigan City, Ind June 22	
Advertised, Eng. News, June 22 and 29.	
June 30. Brick sewer, Troy, N. YJune 22	
June 30. Municipal building, Groton, N. YJune 22	
July 1 Reverments, Duiuth, Minn, June 1	
Advertised Eng News June 1 to 22	
July 1 Sewers Larchmont N V June 15	
Advertised Engineering Nows June 15	
Tule 1 Daving Wooster O. Tuno 15	
Tile 1 Niednot Bont Worth Tow	
July 1. Vladdet, Fort Worth, 1ex	2
July 1. Bridge, Wood River, NebJune 13	
July 1. Bridge, Abbott, NebJune 13	,
July 1. Bridges (2), Montesano, WashJune 15	
July 1. Roof for huilding, New York, N. YJune 22	2
Jaiy 1. School building, Yonkers, N. YJune 22	)
July 1. Paint shop, etc., Port Royal, S. C., June 22	)
July 1 Public building Chicago IIIJune 22	,
July 1 Bridge Coatesville Pa June 29	)
Luiv 1 Bridges (2) Cooperstown N Dak June 25	,
Iniv I leving water mains Livermore Fails Me June 2	,
July 2 Plane for kurgaal Harrogate England May 19	2
July 9. Halls for Automa, Hart Winnings Mon Mor 9	
July 3. Water softening plant, Winnipeg, Man May 2.	5
July S. Levee work, Memphis, 1enn	,
Advertised, Eng. News, June 8 to 29.	
July 3. Bridge, Hornelisville, N. YJune 1.	)
Advertised, Eng. News, June 1 and 8.	
July 3. Water-works eastings, Cineinnati, OJune 13	)
July 3. Turnpike road, Maynardville, TennJune 1:	5
July 3. Hlock paving, Toledo, OJune 1:	5
July 3. School building, Coshocton, OJune 2.	2
July 3 Bridge, Port Orehard, Wash,June 2	2
July 3 Paying Hinghamton, N. YJune 2	2
July 3 Hridge, San Jose, CalJune 22	2
July 2 Bridges (10) Kentland Ind June 2	)
Tute 9 Tubular hollors (2) Columbus () June 2	)
July 9 Dumping ongine Grand Forks N Dok June 9	)
July 5. Fumping engine, Grand Police, N. DakJune 2	5
July 3. Paving and sewers, Rome, N. 1June 2.	6
Advertised, Eng. News, June 22 and 29.	
July 4. Paving and sewers, Marion, IndJune 2	6
July 5. Supplies, Memphis, TennJune	5
Advertised, Eng. News, June 8 to 29.	
July 5. Drainage system, New Orleans, La May	4
Advertised, Eng. News, May 4 to June 29.	
July 5. School building, Barbersville, IndJune 13	5
July 5 Sewers, Cohoes, N. YJune 2	2
Advertised, Engineering News, June 22	
July 5 H & huilding work Minneapolis Minn June 9	2
Tule 5 Steel bridges (5) Fowler Ind June 9	2
July 5 Drick paying Chillicothe O Tune 2	9
Advertised Engineering Mores Tune 99	-
Advertised, Engineering News, June 22.	9
No date. Electric plant, seymour, 1aJune 2	de
Advertised, Engineering News, June 22.	10
" . Electric railway (30 mls), Indianapolis, Ind. June 2	2
" .Artesian well, Fort Gaines, GaJune 2	2
June 28. Reservoir, West Point, Neb	-
DALLWAVE	

## RAILWAYS.

ARIZONA & UTAH.—S. B. McConnico, Vice-Pres. and Gen. Mgr., Kingman, Ariz., Informs us that 18 miles of of this line have been huilt, and that the balance is under contract to Kenefiek & Lusk., 32 Wall St., New York. The route is from Kingman to White Hills, via McConnico and Chloride, 50 miles. F. L. Underwood, Pres., 31 Nassau St., New York: H. M. McCartney, Ch. Engr., Kingman. CHATTAHOOCHEE VALLEY.—A. C. Smith, West Point, Ga., informs us that bids are now heing received for constructing an extension between Lanett and Riverdale, via Langdale, 35 miles. The right of way has been obtained and the capital secured. L. Lanier, Pres., West Point. CHESAPEAKE & OHIO.—Contracts have been let, ac-

Langdale, 35 miles. The right of way has been obtained and the capital secured. L. Lanier, Pres., West Point. CHESAPEAKE & OHIO.—Contracts have been let, according to reports, for double tracking fte section of this line between Clifton Forge, Va., and Huntington, W. Va. The D. Shanahan Sons Co., of Louisville, Ky., are about to commence the erection of a steel viaduct and a station at Richmond, Va., to cost \$3,000,000. Other extensive improvements are being planned. H. Plerce, Engr. Mainfenance-of-Way, Huntington, W. Va. DENVER, KINGFISHER & GULF.—Incorporated in Oklahoma June 8 with \$1,000,000 capital stock, to construct a line from Denver east to Klowa, Kingfisher and Sahine Pass, Tex. F. L. Winkler, W. F. Bart and J. A. Overstreet, of Kingfisher, Okla., are directors. EDDYSTONE & DELAWARE RIVER.—Incorporated In Pennsylvania June 12 with \$50,000 capital stock, to construct a steam railway in Delaware county. Lincoln Godfrey, Pres., Radnor, Pa.; Wm. P. Simpson, Overbrook, Pa.; and John W. Fraley, New York, are incorporators.

Pa.; and John W. Fraley, New York, are incorporators. GREENWICH & JOHNSONVILLE.—This company has decided to extend its line to Middle Falls, N. Y., a distance of about 2 miles. Henry Gray, Greenwich, N. Y. KANSAS, OKLAHOMA CENTRAL & SOUTHWESTERN.—We are informed that work is being pushed on this branch of the Atchison, Topeka & Santa Fe Ry, between Caney, Kan., and Bartlesville, Ind. Ter. Steel has been laid from Caney south to Cotton Creck, and it is expected to reach Bartlesville in July, provided that high water does not inferfere with the bridge work. B. J. Daiton, Ch. Engr., Caney, Kan.

MANHATTAN & JERSEY CITY.—Incorporated in New York June 16 with \$10,000 capital stock, to construct one mile of railway through a tunnel under Hudson River from New York to Jersey City or Hoboken, N. J. Ernest C. Moore, 130 Pearl St.; H. W. Brinckerhoff, and Oliver Huil, New York, are incorporators.

MISSOURI PACIFIC.—A company has been organized at

Huil, New York, are incorporators.

MISSOURI PACIFIC.—A company has been organized at Perry. Okla., according to reports, to build an extension of the Roper and Peru branch of this line in Kansas, south through Pawhuska, Ind. Ter., to Perry.

PEORIA & ST. LOUIS.—Dwight L. Wing, Springfield, Ill., the promoter of this rallway, is taking active steps toward constructing the proposed line from Peoria to

Springfield, Iil., 55 miles. E. F. Harper, Engr., East St.

Louis, III.

RAQUETTE LAKE.—About 600 men are reported to be at work on this new line of rallway from Clearwater, N. Y., on the Mohawk & Msione branch of the New York Central & Hudson River R. R., to Brown's Tract Inlet on Raquette Lake. The road is graded to Eagle Bay, on Fourth Lake, about one-half the distance, and it is expected to complete the work by Aug. 1. J. W. & E. Whalen, Whitehall, N. Y., are the contractors.

SERVIA.—Edward Calthorp' and D. Markus, London, England, are reported to have received a concession from the Servian government to build and operate six railways. Work must begin within two years, and he completed within nine years.

TEXAS.—The Clark & Boice Lumber Co., Jefferson,

TEXAS.—The Clark & Boice Lumber Co., Jefferson, Tex., contemplates the construction of a railway from Jefferson to Linden. Address C. H. Nelson, Linden.

TEXAS.—The Clark & Boice Lumber Co., Jefferson, Tex., contemplates the construction of a railway from Jefferson to Linden. Address C. H. Nelson, Linden.

TEXAS & PACIFIC.—This company is about to build an extension of its line from Port Alien to New Rhodes, La., ahout 25 miles. Part of the contracts have been let. B. S. Wathen, Ch. Engr., Dailas, Tex.

TEXAS CENTRAL.—C. Hamilton, Vice-Pres. and Gen. Mgr., Waco, Tex., informs us that the location has been completed, the right of way obtained and capital secured for building the extension from Albany to Stamford, Tex., 40 miles. The contract for grading has been let to Ricker, Lee & Co., Gaiveston, Tex.; for masonry, to R. L. Newman and J. M. Ackerman; for ties to William Cameron, and for steel hridges to the Edge Moor Bridge Works, Wilmington, Del. H. K. McHarg, Pres., New York.

TIFTON, THOMASVILLE & GULF.—The Union Lumber Co. is constructing this proposed line from Tifton, Ga., towards Thomasville, and expects to complete 56 miles of line this year. F. J. Ansley, Secy., Tifton.

TRENTON, LAWRENCEVILLE & PRINCETON.—We are informed that the second section of this new line of steam railway, or between Lawrenceville and Stony Brook, N. J., a distance of 4.55 miles, was let on June 20 to M. Hurley, Trenton, N. J. The route is from Trenton to Princeton, via Ewing, Lawrenceville and Rosedale. The total length now let and under construction is 0½ miles. J. L. Branson, Pres., Langhorne, Pa.; E. G. Weir, Ch. Engr., Trenton, N. J.

WADLEY & MOUNT VERNON.—This company has announced its intention to apply for authority to extend its line from Wadley, northeast to Augusta, Ga., 55 miles, and from Rixville, southwest to Valdosta, Ga., 140 miles. T. J. James, Pres., Wadley, Ga.

YANKTON, NORFOLK & SOUTHERN.—J. S. Meckling, Chicago, Ill., is said to be making arrangements for financiering a construction company to huild this proposed line from Yankton and Norfolk, Neb., have heen graded and bridged, and is owned by W. W. Graham, Norwalk, O.

#### STREET AND ELECTRIC RAILWAYS.

PORTLAND, ME.—The Portland R. R. Co. has filed an application with the railroad commissioners for per-mission to extend its Cape Elizabeth branch to Saco, a distance of 14 miles. E. A. Newman, Secy. and Mgr.

LEXINGTON, MASS.—The Lexington & Boston St. Ry. Co. has been chartered, with \$170,000 capital stock, to build from Arlington Heights through Lexington and Bedford to Bilierica, 17 milea. C. W. Smith, Treas.

RANDOLPH, MASS.—The sclectmen granted a fran-hise June 14 to the Stoughton & Randolph St. Ry. Co.

chise June 14 to the Stoughton & Randolph St. Ry. Co. MONTVILLE, CONN.—Peck, Williams & Co., Norwich, Conn., are reported to have been awarded the contract for erecting the new car houses and power house for the Montville St. Ry. Co., at Thamesville.

SOUTHINGTON, CONN.—Work began in this town, June 14, on the grading for the proposed extension of the Central Ry. & Electric Co.'s line from Plainville to Southington. F. G. Platt, Treas., New Britain, Conn. The contract is held by F. T. Ley & Co., Springfield, Mass. NIAGARA FALLS, N. Y.—The council granted a franchise to the Niagara Falls St. Ry. Co., June 12, to construct a crosstown line from the upper power district to the property of the Highlands Land Co. in the northeastern part of the city. J. L. Simmons, Vice-Pres., Giuck Bidg., Niagara Falls.

OSWEGO, N. Y.—The Oswego Traction Co. has been

Giuck Bldg., Niagara Fails.

OSWEGO, N. Y.—The Oswego Traction Co. has been organized, with \$300,000 capital stock, by S. M. Coon, D. B. Page, Oswego; C. C. Cook, New York, and others. SCHENECTADY, N. Y.—The Schenectady Ry. Co. has been granted a franchise to extend its line through Nott Terrace, Union St. and Union Ave. Theo. Stebbins, Mgr. HOBOKEN, N. J.—The New Jersey Electric Ry. is reported to have been sold at Secaucus, N. J., to Chanler tiker, Newark, N. J., for \$4,500,000. The system comprised the Jeraey City, Hoboken & Rutherford Electric Ry., the Paterson, Passaic & Rutherford Electric Ry., and the Paterson Central Electric R. R., operating 60 miles of line.

MORRISTOWN, N. J.—The Morris County Traction 60

miles of line.

MORRISTOWN, N. J.—The Morris County Traction Co. has been incorporated, with \$250,000 capital stock, to build a troiley line from Caldwell to Morristown, and ultimately to Lake Hopatcong. John H. Copstick, Montville, N. J.; Robert D. Foote, Morristown, and George W. Stickle, Rockaway, N. J., are incorporators.

NEWARK, N. J.—The White Line Traction Co. was incorporated June 9, with \$4,000,000 capital stock, with \$25,000 paid in, to construct and operate lines in New Jersey. Fred. W. Egner, Edward A. Pruden and George Barker, 763 Broad St., Newark, are incorporators.

PATERSON, N. J.—Albert A. Wilcox, Paterson, bought

Barker, 763 Broad St., Newark, are incorporators.
PATERSON, N. J.-Albert A. Wilcox, Paterson, bought the property of the Paterson Central Electric R. R., at a foreclosure sale, on June 15.
TRENTON, N. J.—It is announced that most of the right of way has been obtained, and that construction work will soon be begun on the Trenton, Lakewood & Seashore Electric Ry., from Trenton to Point Pleasant, via Newton, Alientown, Cassville, Lakewood and Burrsville. John L. Murphy, Trenton, and Gerrit S. Glen, New York, are interested; C. C. Vermuele, Engr., 203 Broadway, New York.
BETHLEHEM, PA.—The Bethlehem & Bath St. Ry.

Broadway, New York.

BETHLEHEM, PA.—The Bethlehem & Bath St. Ry. Co. was incorporated June 20, with \$36,000 capital stock, to construct a line between Bethlehem and Bath. Joseph J. McKee, Pres.; F. W. Leinbach and Geo. H. Wolle, of Bethlehem; A. S. Keck, Allentown, Pa., are incorporatora. OXFORD, PA.—G. W. Taft, Kennett Square, Pa., Pres. of Oxford & Kennett Electric Ry. Co., incorporated June 12, informs us that this line is projected as an extension of the West Chester, Kennett & Wilmington Ry. No steps have been taken beyond procuring a charter.

have been taken beyond procuring a charter. SPRINGFIELD, PA.—The Springfield St. Ry. Co. was incorporated June 6, with \$75,000 capital stock, to build in Delaware county. Simon Bennett, Pres., Springfield; P. D. Curtis, Marple, Pa., and F. H. MacDonald, Philadelphia, are incorporators. YARDLEY, PA.—The Yardley, Morrisville & Trenton St. Ry. Co. was incorporated June 7, with \$36,000 capital stock, to build in Yardley. W. F. Sadler, Prea., and M. F. Thompson, Carlisle; W. F. Sadler, Jr., Trenton, N. J.

WASHINGTON, D. C.—The district commissioners have uthorized the Washington Heights Traction R. R. Co. o commence work on its line. It is not intended to comlete the work until an entrance into this city is provided or by the construction of a proposed extension of the by the construction of

NORFOLK, VA.—The Washington Traction & Elect Co. was incorporated June 5, with \$12,000,000 propos capital stock. Samuel B. Lawrence, Pres.; Geo. Spencer, Treas., New York.

Spencer, 1reas., New York.

Sr'AntraAburg, S. C.—F. D. McEowen, Charleston, S. C., and F. B. Jennings, New York, are reported to nave received a trancnise to construct a street rainway and an electric light and power prant in this city. About an Pittsburg, Pa.

bol

received a franchise to construct a street railway and an inches of nine will be outilt at once. F. H. Khox, Engl., Date of nine will be outilt at once. F. H. Khox, Engl., OWENSBORO, KY.—We are informed that the right of Cainoun Electric Ry., to be about 22 miles in length about 10,000 acres of coal lands have been leastly performed in the right of Cainoun Electric Ry., to be about 22 miles in length about 10,000 acres of coal lands have been leastly performed in the result of the proposed Owensboro & About 10,000 acres of coal lands have been leastly performed in the result of the proposed Owensboro. J. H. Hirkman, Pres.

ALLIANCE, O.—The Alliance, selina & Salem Electric Ry. Co., of Selina, was incorporated June 7, with \$100,000 capital stock, to outild from Albance to Sebring. H. W. Kieln, J. C. Whitia and H. C. Estep are incorporators.

FINDLAY, O.—The Findlay St. Ry. Co. has been granted a franchise to nuild an extension to Mortimer.

SPRINGFIELD, O.—The Springfield, Columbus & Zanessitie Electric Ry. Co. has been incorporated, write \$10,000 capital stock, by J. A. Menling, A. T. Seymour, W. H. Jones and others, of Columbus, O.

INDIANAPOLIS, IND.—We are informed that plans have been perfected for the proposed indianapolis & Martinswine, 30 miles, and that bids for construction and equipment, jointly or separately, will now be received. The company will also offer \$5,00,000 in bonds for sale. The proposed line will pass through nine towns, and the adjacent farms are prosperous. There is also an abundant water power along the route. Address J. C. Tarkingston, Gen. Mgr., 218 North Meridian St., Indianapolis.

LOWELL, MiCH.—J. H. McLane & Co., Coldwater, Mich., are reported to have been awarded the contract, June 9, 10r constructing the proposed Grand Rapids, Belding & Saginaw Electric Ry. trom Lowell to Belding, at about \$150,000. Work is to be completed by Sept. lo. PEORIA, ILL.—John J. McDonald has been awarded the contract for erecting the car and round house of the Peoria & Pekin Terminal Co., to cost ab

MINNEAPOLIS, MINN.—The Minneapolis & St. Paul Suburhan Ry. Co. was incorporated, June 9, with \$1,399, 000 capital stock, to build an extension to Stillwater. Thomas Lowry, C. G. Goodrich and M. B. Koon.

BAKERSFIELD, CAL.—H. F. Williams & Co. have applied to this city for a franchise to build from this city to Kern. Power will be furnished by the Development Co. in Kern River Canyon, 14 miles from Bakersfield.

RIO DE JANIERO, BRAZIL.—Bids are asked by the Brazillan government until Aug. 12 for 30 miles of street railway track.

# ELECTRIC LIGHT AND POWER.

BOSTON, MASS.—Bids are asked until June 28 for installing a plant in the postoffice and subtreasury building. H. A. Taylor, Asst. Secy., Washington.

EAST HADDAM, CONN.—The East Haddam Electric Co., it is reported, proposes to build a stone dam 55 ft. high, a power house, etc., at East Hampton; estimated cost, about \$75,000.

CAMILLUS, N. Y.-W. G. Sisson, of the Camilius Electric Light Co., writes us that it is assured that the franchise will be secured in about two months. Bids will be wanted for a complete plant.

FREEPORT, (L. I.), N. Y.—This place voted on June 10 to Issue \$10,000 in bonds for enlarging the plant.

10 to issue \$10,000 in bonds for enlarging the plant.
OGDENSBURG, N. Y.—Amasa Thornton, 35 Nassau St., and F. S. Williamson, Consuit. Engr., 257 Broadway, both of New York, are interested in a proposed water-power plant on the Waddington River, at Waddington. We are informed that the plant will at first generate 3,000 HP, and will cost \$350,000. The project is not financed as yet. Mr. Williamson has made a report to Sir Douglas Fox, 28 Victoria St., S. W., London, which he has endorsed. Further examinations will now be made. It is intended to develop 13,000 HP, by means of turbines. Contracts have already been made to sell several thousand electric horse-power. Mr. Williamson will be chief engineer, with Sir Douglas Fox and Francis Fox, London, England, as consulting engineers.
UTICA, N. Y.—M. J. Brayton, Seey. Utica Electric Light

don, England, as consulting engineers.

UTICA, N. Y.-M. J. Brayton, Seey. Utica Electric Light
Co., writes us that preliminary plans are being prepared
for the development of the water power at Trenton Falls:
the construction of a power house, electrical equipment
and necessary transmission line for the Trenton Falls
Electric Light & Power Co. The hydraulic development
has not as yet been given in charge of the engineers, but
probably will be at an early date. The company hopes to
eable to let the contracts in July. A meeting of the
stockholders will be held June 26 to approve the agreement made by the directors for the consolidation of the
Utica Electric Light Co., the Utica Electrical Mfg. & Supply Co., and the Trenton Falls Electric Light & Power Co.
CARBONDALE. PA.—A new company is reported by

CARBONDALE, PA.—A new company is reported by local papers as being organize to build a plant.

GIRARD, PA.—Bids are asked until July 7 for furnishing the materials and for constructing a plant and waterworks, as stated in our advertising columns. J. F. Witmer, Engr., Ellicott Square, Buffalo, N. Y.; C. C. Sherman, Burgess.

LUZERNE, PA.—Councilman J. T. Killeen writes us that the town is about to build a plant.

DOVER, DEL.—Councilman Alden R. Benson writes us that bids will be wanted in June or July for constructing a plant fo cost \$19,000. The plant will have a capacity for 40 are and 500 incandescent lights.

BALTIMORE, MD.—The council is considering an ordinance spointing A. Leo Knott, Prof. Jacob H. Hollender, of the Johns Hopkins University, and Chas. E. Phelps, Jr., Ch. Engr. Subway Comn., a commission to investigate the question of a municipal plant.

Ch. Engr. Sudway Comm., a commission to investigate the question of a municipal plant.

NORFOLK, VA.—The property of the Virginia Electric Co. which has been purchased for about \$700,000 by Middendorf, Oliver & Co., Baltimore, and John L. Williams & Sons, Richmond, Va., has heen transferred in New York. The syndicate is the same that controls the Norfolk & Ocean View Ry. Co. R. Lancaster Williams is president of both. The consolidated company may he named the Norfolk & Ocean View Ry. Co. The electric plant will be enlarged and improved and will furnish power to the street railways.

HARPER'S FERRY, W. VA.—The Harper's Ferry Light & Power Co.'s plant has been sold to John A. Livers, of Gettysburg, Pa., and H. W. Riley, of Hanover, Pa., who will enlarge the plant.

THOMAS, W. VA.—O. M. Nearsherd, Mayor, writes us that nothing will be done toward constructing a plant until the water-works are completed, which will be Sept. 1. GASTONIA, N. C.—An election will be held Aug. 1 to

until the water-works are completed, which will be Sept. 1.
GASTONIA, N. C.—An election will be held Aug. 1 to yote on the question of issuing honds for a plant.
LOUISBURG, N. C.—Geo. S. Baker writes us that the election to yote on the question of huilding a plant and water-works has been postponed.
WAYNESVILLE, N. C.—H. W. Ferguson, Mayor, writes us that bids will be wanted about July 15 for the purchase of the bonds for the proposed water power plant.
GREENVILLE, S. C.—The American Pipe Mfg. Co., 219 Filbert St., Philadelphia, is reported as preparing to improve the plant here, at a cost of about \$25,000.

to improve the plant here, at a cost of about \$25,000. HUNTSVILLE, ALA.—The Huntsville Ry., Light & Power Co., it is stated, will build a plant. BASTROP, LA.—This place has voted to issue honds for a plant and water-works.

LAKE PROVIDENCE, LA.—Arthur Hider, U. S. Asst. Engr., Lake Providence, has been engaged to prepare plans for a plant and water-works to cost \$17,500. COOKEVILLE, TENN.—A company is heing organized to build a plant, according to reports.

BAINERIDGE, O.—E. O. Lease, Mayor, writes us that honds for the plant, to cost \$7,000, will probably he sold about Aug. 1.

BATAVIA, O.—John Hillen, Mayor, writes us that the

BATAVIA, O.—John Hillen, Mayor, writes us that the committee, which is investigating the question of building a plant will report July 3. A report states that \$50,000 in bonds will he issued for a plant and water-works.

BELLAIRE, O .- Bids will he asked at once for lighting

the streets.

VERSAILLES, O.—This place is making arrangementa for the construction of its proposed plant and water-works to cost ahout \$25,000. J. W. Reser, Cy. Clk.

SEYMOUR, IND.—The question of either huilding a city plant or of granting a franchise will soon he voted upon, according to reports.

GRAND RAPIDS, MICH.—The Frank B. Rae Engineering Co. and W. S. Monroe, Chicago, Ill., have submitted a report for a power plant on the Grand River, at this place, to cost ahout \$330,000. W. H. Rowe, Julius Berkey, C. G. A. Volgt and J. W. Spooner are interested.

CHICAGO, ILL.—The Diamond Match Co. has submitted

CHICAGO, ILL.—The Diamond Match Co. has submitted a proposition to the sanitary hoard to utilize the water power of the drainage channel. The work is estimated to cost about \$1,000,000.

DECATUR, ILL.—A new company is said to have been organized to build a plant. John Allen is interested. LA SALLE, ILL.—The Enterprise Light, Heat & Power Co. has been granted a franchise. A steam-heating and electric light plant to cost \$100,000 will be built at once, according to reports.

according to reports.

LOUISVILLE, ILL.—It is stated that the council has voted to contract with Reed & Surrels, Chicago, to put in a plant and water-works for this city, to cost \$10,500.

MINIER, ILL.—The question of building a plant is being considered by the trustees.

DUBUQUE, IA.—The Dubuque Light & Traction Co.'s plant has been sold to the General Electric Co., Schenectady, N. Y., for \$50,000. It is said that a number of improvements will he made.

MECHANICSVILLE, IA.—We are informed that a 10-year lighting contract has been made with Davidson & Helmer, of this place. The plant is to be in operation by Sept. 1. L. L. Kennedy, Mayor.

SEYMOUR, IA.—Blds are asked by R. F. Greer, Town Clk., for furnishing the material and for constructing a plant, as advertised in Engineering News. Population, 2,200. Fred. W. Saimon, Engr., Burlington, Ia.

MANKATO, MINN.—The Mankato Electric Ry., Light-ing & Power Co. has purchased some property on which a new plant will he huilt. W. I. Gray & Co., Engrs., Sykes Bldg., Minneapolis.

SANDSTONE, MINN.—A company has been organized build a plant, it having already received the contract or lighting the town.

KANSAS CITY, MO.—The Mutual Electric Light & Power Co. has been organized by W. H. Weiss, Coate's House, Kansas City, and others, to huild a plant, to cost about \$500,000.

PINE BLUFF, ARK.—Plans are reported as being pre-pared for a plant.

pared for a plant.

BELLEVILLE, TEX.—J. G. Wessendorf is reported as interested in the proposed plant.

LOVELAND, COLO.—Ray Smith, Longmont, Colo., has been granted a franchise, it to be in operation Oct. 1.

VICTOR, COLO.—The Hayden Electric Co., of Goldfield, Colo., has applied for a 25-year franchise.

NAPA, CAL.—The Clear Lake Electric Power Co. proposes to hulid a plant on Cache Creek to transmit power to St. Helena, Napa, Vallejo, Benicia, Santa Rosa, etc., estimated cost \$650,000. Richard Wyrile, Pres. Napa; E. H. Winship, Gen. Mgr., Napa; A. M. Hunt, 310 Pine St., and Wynn Meredith, Engrs, hoth of San Francisco.

SANTA ANA, CAL.—The trustees have contracted with

SANTA ANA, CAL.—The trustees have contracted with Belmont, Perry & Co., Los Angeles, to install a plant to cost about \$60,000. Power is to be brought from Santa Ana Canyon, 100 miles distant, in the San Bernardino Mountains.

Mountains.

LEHI, UTAH.—Christian Garff, of Ogden, Utah, has been granted a franchise. A plant to cost about \$30,000 will be built at the mouth of American Fork Canyon.

HAMILTON, ONT.—The hoard of works is said to have accepted a proposition submitted by the Cataract Power Co. to furnish arc lights for 10 years from Sept. 1, 1900.

PRESCOTT, ONT.—Bids are asked until June 30 for an engine for a plant; capacity, about 125 HP. Galt & Speakman, Engrs., Canada Life Bidg., Toronto, Ont. ST. HYAGINTHE, QUE.—Press reports state as follows: A syndicate of Toronto capitalists has purchased the franchises and property of the Hyacinthe Power &

Electric Light Co. It is proposed to rebuild the power house, remodel the electric system and make extensive improvements, for which considerable machinery and supplies will be required.

THURSO, QUE.—The Stadacona Electric & Water Co. is to make improvements, for which the town has appropriated \$18,000, according to reports.

NELSON, B. C.—The council is reported as making arrangements for extending the plant, to cost \$15,000, for which bonds were voted May 30.

#### BRIDGES.

SPRINGFIELD, VT.-M. L. Lawrence, Town Clk., informs us that plans for the construction of a bridge have been submitted, but that no action will be taken soon.

forms us that plans for the construction of a bridge have been submitted, but that no action will be taken soon.

AGAWAM, MASS.—Bids are asked by the selectmen until June 22 for the construction of a two 120-ft span riveted steel bridge: estimated cost, \$16,000. H. E. Bodentha, Chn. Selectmen; H. L. Norton, Des. Engr.

GLENS FALLS. N. Y.—The contract for the construction of two iron bridges over Halfway Brook was awarded June 16 to Monty, Higley & Co., of Sandy Hill, at \$1,090.

OWEGO. N. Y.—Reports state that the contract for constructing three county bridges has been let to the Owego Bridge Co., at \$2,500.

ROCK RIFT, N. Y.—It is stated that a new steel bridge is to be erected at a cost of \$8,000.

SYRACUSE, N. Y.—It is reported that the contract for the erection of a 40-ft, span bridge over Ley Creek in the lown of Salina has been awarded to H. Ryan, at \$2,000.

CAPE MAY, N. J.—Bids are asked by the committee of the board of freeholders until June 29 for the construction of a bridge and abutments at Schellenger's Landing, as stated in our advertising columns. F. R. Long Co., Engrs., 320 Broadway, New York.

COATESVILLE, PA.—Bids are asked by the Street Committee until July 1 for the construction of a stone and brick bridge over Gibbon's Run on Fourth Ave. Joseph Graham, Chn.

KANE, PA.—Bids are asked by the Borough of Kane for the construction of an and prick bridge over Gibbon's Run on Fourth Ave.

KANE, PA.—Bids are asked by the Borough of Kane or the construction of an iron or steel bridge across the littshurg & Easton R. R. tracks. J. E. Mullin, Secy. NEWPORT, KY.—E. E. Ball, County Engr., California. Cy., informs us that the following bids were received une 5 for the construction of the iron spans over Tendile and Phillips Creeks:

7	Creek. 24-ft.	Phillips Creek. 36-ft.
	span.	span.
Pittsburg Bridge Co., Pittsburg	.8432	\$684
La Fayette Bridge Co., La Fayette	459	5.89
Cincinnati Bridge Co., Cincinnat		598
Brackett Bridge Co., Cincinnati		579
Joliet Bridge Co., Joliet, fll	. 985	
Variety Iron Works, Cleveland	. *18	
Massillon Bridge Co., Massillon		586

\*A lin. ft.

There will be under construction in the next 90 days three wooden bridges and two iron bridges.

LIMA, O.—Bids are asked until July 6 for the construc-tion of two steel bridges over Ottawa River, as stated in our advertising columns. C. E. Lynch, Cy. Cik.

our advertising columns. C. E. Lynch, Cy. Cik.

FOWLER, IND.—Bids are asked by the county commissioners of Benton county until July 5 for the construction of five steel county bridges. J. A. Blaisdel, Surv.

GREENFIELD, IND.—Bids are asked by the county commissioners until June 24 for the construction of three county bridges, and until July 10 for the construction of a bridge over Sugar Creek near Milners Corner on the Township line between Green and Brown townships, Hancock county. Ind. John Manche, Comr.

INDIANAPOLIS, IND.—Bids are asked by the board of park commissioners until June 23 for the construction of two footway suspension bridges in Riverside Park. according to reports. Wm E. English, Chn.—Reports state that at the meeting June 12 the board of works requested the city controller to recommend that there he appropriated the sum of \$150,000 for the construction of new bridges over Fail Creek and White River.

KENTLAND, IND.—Bids are asked by the county com-

KENTLAND, IND.—Bids are asked by the county com-missioners until July 3 for the construction of the su-perstructure of ten bridges, according to reports. Ed-ward E. Parsons, Chn.

INDEPENDENCE, WIS-It is stated that the village hoard will ask for hids for the construction of a steel hridge across Elk Creek.

DAKOTAH. IA.—We are informed that the Clinton Bridge Co., Clinton, Ia., bld \$2.736 for a 170-ft, span steel bridge to be erected at this place.

STAPLES, MINN.—Bids are asked until June 24 for the construction of a hridge over Swan Creek, according to reports. Ed. Ryan, Town Clk.

COOPERSTOWN, N. DAK.—Bids are asked until July 1 for the construction of two hridges, according to reports. Mason Knapp, Town Clk.

DICKINSON, N. DAK.—Bids are asked until July 8 for the construction of a steel bridge, according to reports. John Pressheck, County Audr.

FARGO, N. DAK.—Bids are asked until July 10 for the construction of a steel bridge across the Maple River, according to reports. O. J. Olson, County Audr.

GLENDIVE, MONT.—Reports state that the question of rebuilding the bridge, at an estimated cost of \$40,000, is being considered.

heing considered.

MILES CITY, MONT.—Bids are asked by A. H. Swerdfiger, Clerk of Custer county, until June 26, for the construction of two wagon bridges, one over Powder River and the other over Mispath Creek, according to reports. PORT ORCHARD, WASH.—Bids are asked until July 3 for the construction of a bridge in road district No. 11, on Watts Road. C. W. Clausen, Audr. Kitsap County. COQUILLE, ORE.—Bids are asked by the County Court of Coos county until July 8 for plans, specifications, etc., and for building a bridge according to such plans across the middle fork of the Coquilie River. L. Harlocker, County Judge.

LOS GATOS. CAL.—Bids are asked until July 3 for the onstruction of a hridge over Los Gatos Creek, at Campconstructio heil's Ave.

SAN JOSE, CAL.—Bids are asked by the City Clerk until July 3 for the construction of a bridge over San Antonio Creek.

WATSONVILLE, CAL.—Bids are asked by the county supervisors until July 3 for the construction of a hridge over Corraitos Creek. H. H. Miller, Cik. of the Bd.

over Corralitos Creek. H. H. Milier, Cik. of the Bd. WILLOWS, CAL.—Reports state that the Southern Pacific will during this month erect a steel bridge across Story Creek, at Orland; also one across Walker Creek, hetween this place and Germantown.

ALBUQUERQUE, N. MEX.—Reports state that the contract for building the bridge across the Rio Grande River has been swarded to the Pueblo Bridge Co., of Pueblo. Colo., at \$13,000.

#### BUILDINGS.

BOSTON, MASS.—Bids are asked until June 24 for the installation of a hot-water heating apparatus for the ropewalk, etc., at the navy yard, Boston. A. S. Kenny, Paymaster-General, U. S. N., Washington, D. C. NEWPORT, R. I.—Bids are asked by the bureau of navigation, Washington, D. C., until July 12, for constructing a barracks at the U. S. naval training station on Coaster's Harbor Island, Newport.

master-General, U. S. N., Washington, D. C.

NEWPORT, R. I.—Bids are asked by the bureau of navigation, Washington, D. C., until July 12, for constructing a barracks at the U. S. naval training station on Coaster's Harbor Island, Newport.

NEW HAVEN, CONN.—Plans are reported to have heen accepted for the new law school building for Yale University of the Control of the International Cody, Box Lee Sec. 21 East 17th St., New York.

BROOKLESSO, 21 East 17th St., New York.

BROOKLESSO, 22 East 17th St., New York.

BROOKLESSO, 25 East 17th St., New York.

BROOKLESSO, 2

YONKERS, N. Y.—Bids are asked by the board of edu-cation until July 1 for creeting a school building at Mc-Lean and Park Hill Aves.

Lean and Park Hill Aves.

NEWARK, N. J.—Bids are asked until June 27 for constructing the masonry and frame work of shelters Nos.

1, 2 and 3, and public lavatory building. in Branch Brook Park, Newark, as stated in our advertising columns. 4. Church. Seev. of Essex County Park Commission. 900 Procad St. Newark: Carrere & Hastings, Archs., 28 East 41st St., New York.

ORANGE, N. J.—It is reported that a free nublic library building will be erected in this city as a memorial to the late Dr. J. M. Stickler.

building will be erected in this city as a memorial to the late Dr. J. M. Stickler.

CARLISLE, PA.—Bids are asked until June 26 for furnishing and delivering about 2,000 bushels of sand, 650 bushels of ilme 150,000 brick structural iron, etc., for the Carlisle Indian Industrial School. R. H. Pratt, Supt. NORRISTOWN. PA.—Bids are asked until June 27 for constructing two new brick ward buildings at the State Hospital for Inssne for the Southeastern District of Pennsylvania, at this piace. Thomas P. Lonsdale, Consulting Arch... 4th and Wainut Sts., Philadelphia.

WASHINGTON, D. C.—Bids are asked until July 10 for excavating and boring on site of new building for government printing office. Lient, John S. Sewell, U. S. Engrs. 735 North Capitol St.—The following bids were received June 10 for erecting a new S-room school building on 15th St., between Rosedale and Gales Ave.: W. E. Sneft, 837.-550; Richardson & Burgess, 837.214; Glesson & Humphrey, 832.290, with \$500 extra for cement and \$600 extra for foors with steel girders in the school rooms. As the bids exceed the appropriation, no contracts will probably be let.—The following bids were received by the sunervising architect, Washington, D. C., June 15, for renalrs to the beating and power plants of the U. S. Treasury (Winder) Bidg, in this city; Philadelphia (Pa.) Steam Hending Co., 823.993, Oct. 15: Sellers & Co., 1404 P. St., NW., Washington, S. C.—Bids are asked by the district commissioners until June 26 for constructing an 8-room

WASHINGTON, D. C.—Bids are asked by the district commissioners until June 28 for constructing an 8-room school building at South Carolina Ave. and 2d St. S. W., and an 8-room school building on 15th St, between Gales and Rosedale Sts., N. E.; also for hot air or hot blast steam heating apparatus, with mechanical ventilating appliances, for the same.

FORTRESS MONROE, VA —The following hids are reported to have been received June 10 for constructing a hospital steward's quarters at Fort Monroe; C. P. Townsley, Q. M., U. S. A.: D. B. Burham, Newport News, Va.,

June 28. Reservoir, West Point, Neb	
June 28 Reservoir West Point Nob June 15	
June 28 tiarbase plant I specified De Tune 15	
June 20. Oarhage plant, Lancaster, PaJune 15	
June 28. Brick paving, Norwich, N. YJune 15	
Advertised, Eng. News, June 15 and 22.	
June 28. Masonry arches Cleveland O June 15	
Advertised the love the standard to	
Advertised, Edg. News, June 15 and 22.	
June 28. Main sewer, Princeton, 111June 22	
June 28. Electric plant. Boston. MassJune 22	
June 28. Pike roads Vernor, Ind June 29	
Tune 'da Mandon atana Kan Black Pla	
June 25. Random stone, Key West, Fla	
Advertised, Elig. News, June 1 to 22.	
June 29. Dredging, Tampa, FiaJune 1	
Advertises, Eng. News, June 1 to 22.	
June 29 Wall-Channel Albany N V	
John 25. Wall-Channel, Albany, N. 1.	,
Advertised, Eng. News, June 15 and 22.	
June 29. Heating, electric lighting, etc., New York, June 22	2
June 29 Fifter basin etc. Phoenivville Pa June 29	,
Jane 20. Fitter Habit, etc., Fitteriaville, Fa	
Advertised, Eng. News, June 22 and 29.	
June 29. Bridge, Cape May, N. JJune 22	2
Advertised, Engineering News, June 22.	
June 20 Flectric r'v (22 miles) Shaughei China Mar 9	)
June 30. Electric I y (25 Elles), Shanghai, China. Mar.	
Advertised, Eng. News, Nov. 17 to Dec. 8.	
June 30, Barges (6), New Orleans, LaJune 8	3
Advertised Eng News June 8 to 29	
Tune 20 Comors Marshall Mich	
June oo. Sewers, Marshall, MichJune la	,
Advertised, Eng. News, June 15 and 22.	
June 30. Dredging, Cleveland, OJune 1.	)
Advertised Eng News June 15 and 99	
Into 20 Wefer Works Cherel Hill M. C. Ture 1	
June ov. Water-Works, Chaper Hill, N. CJune 1:	3
Advertised, Engineering News, June 15.	
June 30, Water and electric plants, Beigrade, Minn June 17	)
June 30 Water and sawer systems Walker Minn Tune 1	5
Time 90 Paris and Sewel Systems, Walker, Minn. June 11	
June 30. Engine for electric plant, Prescott, OntJune 2.	-
June 30. Water-works, Michigan City, Ind June 2.	2
Advertised, Eng. News, June 22 and 29.	
June 20 Brick sewer Troy N V	)
tone 90 Municipal building Choice N V June 9	1
June 30. Municipal building, Groton, N. 1June 2.	-
July 1. Revetments, Duluth, MinnJune	1
Advertised, Eng. News, June 1 to 22.	
July I. Sewers, Larchmont, N. YJune 1	5
Advertised, Engineering News, June 15. July 1. Paving, Wooster, O. June 1. July 1. Pidaduct, Fort Worth, Tex. June 1. July 1. Bridge, Wood River, Neb. June 1. July 1. Bridge, Ahbott, Neb. June 1. July 1. Bridges (2), Montesano, Wash. June 1. July 1. Roof for building, New York, N. Y. June 2. July 1. School building, Yonkers, N. Y. June 2. July 1. Paint shop, etc., Port Royal, S. C. June 2. July 1. Puhlic building, Chicago, Ill. June 2. July 1. Bridges (2), Cooperstown, N. Dak. June 2. July 1. Bridges (2), Cooperstown, N. Dak. June 2. July 1. Laying water mains, Livermore Falis, Me. June 2. July 3. Plans for kursaal. Harrogate, England. May 1. July 3. Levee work, Memphis, Tenn. June 1. Advertised, Eng. News, June 8 to 29. July 3. Bridge, Hornellsville, N. Y. June 1. Advertised, Eng. News, June 1 and 8. July 3. Water-works castings, Cincinnati, O. June 1. July 3. Turnpike road, Maynardville, Tenn. June 1.	
Tule 1 Daving Wester O	
July 1. Paving, Wooster, O June 1.	
July 1. Viaduct, Fort Worth, TexJune 1.	9
July 1. Bridge, Wood River, NebJune 1	5
July 1. Bridge, Abbott, NebJune 13	5
Trib 1 Delige, Milest, Market Block	ě.
July 1. Bridges (2), Montesano, WashJune 1	9
July 1. Roof for building, New York, N. YJune 2:	2
July 1. School building, Yonkers, N. YJune 2:	2
July 1. Paint shop, etc., Port Royal, S. CJune 2:	9
July 1. Patite Subject, 10th toyal, S. C	5
July 1. Public building, Chicago, IllJune 2.	-
July 1. Bridge, Coatesville, Pa June 2:	2
July 1. Bridges (2), Cooperstown, N. Dak June 2:	2
July 1. Laying water mains, Livermore Falls, Me., June 2:	9
July 1. Daying water mains, Divermore Faria, Me., due 2.	0
July 3. Plans for kursaal, Harrogate, England May 13	9
July 3. Water softening plant, Winnipeg, Man May 2	.)
July 3. Levee work, Memphis, TennJune	8
Adventised First News Tune 8 to 90	-
Advertised, Eng. News, June 6 to 20.	
July 3. Bridge, Hornellsville, N. YJune 13	J
Advertised, Eng. News, June 1 and 8.	
July 3. Water-works castings, Cincinnati, OJune 1.	5
July 3. Turnpike road, Maynardville, TennJune 1	5
July 9. I dilipine road, Maylarderine, Tenni	2
July 3. Block paving, Toledo, OJune 1	0
July 3. School building, Coshocton, OJune 2	-
July 3. Bridge, Port Orchard, WashJune 2	2
July 3. Paving, Binghamton, N. YJune 2	2
Tule 9 Deldes Con York Col	9
July 3. Bridge, San Jose, CalJune 2	5
July 3. Bridges (10), Kentland, IndJune 2	-
July 3. Tuhular boilers (3), Columbus, OJune 2	2
July 3. Pumping engine, Grand Forks, N. DakJune 2	2
July 9. Hamilia and sample Doma N. V. Tuno 9	-
July 3. Paving and sewers, Rome, N. YJune 2	de
July   2. Water-works castings, Cincinnati, O.   June 1: July   3. Turnpike road, Maynardville, Tenn.   June 1: July   3. Block paving, Toledo, O.   June 1: July   3. School building, Coshocton, O.   June 2: July   3. Bridge, Port Orchard, Wash.   June 2: July   3. Bridge, San Jose, Cal.   June 2: July   3. Bridge, San Jose, Cal.   June 2: July   3. Bridges (10), Kentland, Ind.   June 2: July   3. Bridges (10), Kentland, Ind.   June 2: July   3. Tuhular boilers (3), Columbus, O.   June 2: July   3. Pumping engine, Grand Forks, N. Dak.   June 2: July   3. Paving and sewers, Rome, N. Y.   June 2: July   4. Paving and sewers, Marion, Ind.   June 2: July   5. School huilding, Tenn.   June   Advertised, Eng. News, June 8: to 29. July   5. School huilding, Barhersville, Ind.   June 2: July   July   5. School huilding, Barhersville, Ind.   June 2: July   July   5. School huilding, Barhersville, Ind.   June 2: July   July   5. School huilding, Barhersville, Ind.   June 2: J	0
July 4. Paving and sewers, Marion, IndJune 2	2
July 5. Supplies, Memphis, TennJune	8
Advertised Fig News Tune 8 to 90	_
Advertised, Eng. News, June 8 to 28.	4
July 5. Drninage system, New Orleans, LaMay	4
Advertised, Eng. News, May 4 to June 29.	
July 5 School building, Barbersville, Ind June 1	5
Tule E Comone Cohoos M V	9
July o. Sewers, Conces, N. IJulie 2	-
Advertised, Engineering News, June 22.	
July 5.U. S. huilding work, Minneapolis, MinnJune 2	2
July 5 Steel bridges (5) Fowler, Ind June 2	12
July 5 Brick paying Chillicothe O June 9	(4)
July J. Direk paving, Commercial, No. 1 300	-
Advertised, Engineering News, June 22.	
No date, Electric plant, Seymour, IaJune 2	2
Advertised, Engineering News, June 22	
Flootrie reliway (20 mls) Indianapolis Ind June 9	99
the Antonian well Fort Calpan Ca	(×)
Artesian wen, Fort Games, Ga	200
Advertised, Eng. News, May 4 to June 29. July 5. School huilding, Barhersville, Ind. June 1 July 5. Sewers, Cohoes, N. Y. Advertised, Engineering News, June 22. July 5. U. S. huilding work, Minneapolis, Minn. June 2 July 5. Steel hridges (5), Fowler, Ind. June 2 July 5. Brick paving, Chillicothe, O. June 2 Advertised, Engineering News, June 22. No date. Electric plant, Seymour, Ia. June 2 Advertised, Engineering News, June 22. Electric rallway (30 mis), Indianapolis, Ind June 2 "Artesian well, Fort Gaines, Ga. June 2 "Steel hridge, Kane, Pa. June 2	2
RAILWAYS.	

# RAILWAYS.

RAILWAYS.

ARIZONA & UTAH.—S. B. McConnico, Vice-Pres. and Gen. Mgr., Kingman, Ariz., informs us that 18 miles of of this line have been built, and that the halance is under contract to Kenefick & Lusk., 33 Wall St., New York. The route is from Kingman to White Hills, via McConnico and Chloride, 50 miles. F. L. Underwood, Pres., 31 Nassau St., New York: I. M. McCartney, Ch. Engr., Kingman. CHATTAHOOCHEE VALLEY.—A. C. Smith. West Point, Ga., informs us that bids are now heing received for constructing an extension hetween Lanett and Riverdale, via Langdale, 35 miles. The right of way has been obtained and the capital secured. L. Lanler, Pres., West Point. CHESAPEAKE & OH10.—Contracts have been let, according to reports, for double tracking the section of this line hetween Clifton Forge, Va., and Huntington, W. Va. The D. Shanahan Sons Co., of Louisville, Ky., are ahout to commence the erection of a steel viaduct and a station at Richmond, Va., to cost \$3,000,000. Other extensive improvements are heing planned. H. Pierce, Engr. Maintenance-of-Way, Huntington, W. Va.

DENVER, KINGFISHER & GULF.—Incorporated in Oklahoma June 8 with \$1,000,000 capital stock, to construct a line from Denver east to Klowa, Kingfisher and Sahine Pass, Tex. F. L. Winkler, W. F. Bart and J. A. Overstreet, of Kingfisher, Okla., are directors.

EDDYSTONE & DELAWARE RIVER.—Incorporated in Pennsylvania June 12 with \$50,000 capital stock, to construct a steam railway in Delaware county. Lincoln Godfrey, Pres., Radnor, Pa.; Wm. P. Simpson, Overbrook, Pa.; and John W. Fraley, New York, are incorporated in Sensibility. The properties of the Atchison, Topeka & Santa Fe Ry. between Caney, Kan., and Bartlesville, Ind. Ter. Steel has been laid from Caney south to Cotton Creek, and it is expected to reach Bartlesville in July, provided that high water does not interfere with the bridge work. B. J. Daiton, Ch. Engr., Caney, Kan.

MANHATTAN & JERSEY CITY.—Incorporated in New York June 16 with \$10,000 capital stock, to construct one mile of railway thro

Springfield, Ill., 55 miles. E. F. Harper, Engr., East St.

Louis, III.

RAQUETTE LAKE.—About 600 men are reported to he at work on this new line of railway trom Clearwater, N. Y., on the Mobawk & Maione brauch of the New York Central & Hudson River R. R., to Brown's Tract inlet on Raquette Lake. The road is graded to Eagle Bay, on Fourtb Lake, about one-half the distance, and it is expected to complete the work by Aug. 1. J. W. & E. Whalen, Whitehall, N. Y., are the contractors.

SERVIA.—Edward Calthorp and D. Markus, London, England, are reported to have received a concession from the Serviau government to huild and operate six railways. Work must begin within into years, and be completed within nine years.

England, are reported to huild and operated the Serviau government to huild and operated with Serviau government to huild and operated within nine years.

TEXAS.—The Clark & Boice Lumber Co., Jefferson, Tex., contemplates the construction of a railway from Jefferson to Linden. Address C. H. Nelson, Linden.

TEXAS & PACIFIC.—This company is about to build an extensiou of its line from Port Allen to New Rhodes, La., about 25 miles. Part of the contracts have heen let. B. S. Watben, Ch. Engr., Dallas, Tex.

TEXAS CENTRAL.—C. Hamilton, Vice-Pres. and Gen. Mgr., Waco, Tex., informs us that the location has been completed, the right of way obtained and capital secured for building the extension from Albany to Stamford, Tex., 40 miles. The contract for grading has been let to Ricker, Lee & Co., Galveston, Tex.; for masonry, to R. L. Newman and J. M. Ackerman; for ties to William Cameron, and for steel bridges to the Edge Moor Bridge Works, Wilmington, Del. H. K. McHarg, Pres., New York.

TIFTON, THOMASVILLE & GULF.—The Union Lum-

mington, Del. H. K. McHarg, Pres., New York.

TIFTON, THOMASVILLE & GULF.—The Union Lumber Co. is constructing this proposed line from Titton, Ga., towards Thomasville, and expects to complete 56 miles of line this year. F. J. Ansley, Secy., Tifton.

TRENTON, LAWRENCEVILLE & PRINCETON.—We are informed that the second section of this new line of steam railway, or between Lawrenceville and Stony Brook, N. J., a distance of 4.55 miles, was let on June 20 to M. Hurley, Trenton, N. J. The route is from Trenton to Princeton, via Ewing, Lawrenceville and Rosedale. The total length now let and under construction is 9½ miles. J. L. Branson, Pres., Langhorne, Pa.; E. G. Weir, Ch. Engr., Trenton, N. J.

WADLEY & MOUNT VERNON.—This company has an-

Ch. Engr., Trenton, N. J.

WADLEY & MOUNT VERNON.—This company has announced its intention to apply for authority to extend its liue from Wadley, northeast to Augusta, Ga., 55 miles, and from Rixville, southwest to Valdosta, Ga., 140 miles. T. J. James, Pres., Wadley, Ga.

YANKTON, NORFOLK & SOUTHERN.—J. S. Meckling, Chicago, Ill., is said to be making arrangements for financiering a construction company to build this proposed line from Yankton, S. Dak, to Omaha, Neb., 180 miles; estimated cost, \$2,700,000. About 45 of the 75 miles between Yankton and Norfolk, Neb., have been graded and bridged, and is owned by W. W. Graham, Norwalk, O.

#### STREET AND ELECTRIC RAILWAYS.

PORTLAND, ME.—The Portland R. R. Co. has filed an application with the railroad commissioners for permission to extend its Cape Elizabeth branch to Saco, a distance of 14 miles. E. A. Newman, Secy. and Mgr.

LEXINGTON, MASS.—The Lexington & Boston St. Ry. Co. has been chartered, with \$170,000 capital stock, to build from Arlington Heights through Lexington and Bedford to Billerica, 17 miles. C. W. Smith, Treas.

Bedford to Billerica, 17 miles. C. W. Smith, Treas.
RANDOLPH, MASS.—The sclectmen granted a franchise June 14 to the Stoughton & Randolph St. Ry. Co.
MONTVILLE, CONN.—Peck, Williams & Co., Norwich,
Conn., are reported to have heen awarded the contract
for erecting the new car houses and power house for the
Montville St. Ry. Co., at Thamesville.
SOUTHINGTON, CONN.—Work hegan in this town,
June 14, on the grading for the proposed extension of the
Central Ry. & Electric Co.'s line from Plainville to
Southington. F. G. Platt, Treas., New Britain, Conn.
The contract is held by F. T. Ley & Co., Springfield, Mass.
NIAGARA FALLS, N. Y.—The council granted a fran-

The contract is held by F.T. Ley & Co., Springheld, Mass. NIAGARA FALLS, N. Y.—The council granted a franchise to the Niagara Falls St. Ry. Co., June 12, to construct a crosstown line from the upper power district to the property of the Highlands Land Co. in the northeastern part of the city. J. L. Simmons, Vice-Pres., Gluck Bldg., Niagara Falls.

OSWEGO, N. Y.—The Oswego Traction Co. has been organized, with \$300,000 capital stock, by S. M. Coon, D. B. Page, Oswego; C. C. Cook, New York, and others.

D. B. Page, Oswego; C. C. Cook, New York, and others. SCHENECTADY, N. Y.—The Schenectady Ry. Co. has been granted a franchise to extend its line through Nott Terrace, Union St. and Union Ave. Theo. Stebhins, Mgr. HOBOKEN, N. J.—The New Jersey Electric Ry. Is reported to have heen sold at Secaucus, N. J., to Chanler Riker, Newark, N. J., for \$1,500,000. The system comprised the Jersey City, Hoboken & Rutherford Electric Ry., and the Paterson, Passaic & Rutherford Electric Ry., and the Paterson Central Electric R. R., operating 60 miles of line.

miles of line.

MORRISTOWN, N. J.—The Morris County Traction Co. has been incorporated, with \$250,000 capital stock, to huild a trolley line from Caldwell to Morristown, and ultimately to Lake Hopatcong. Jobn H. Copstick, Montville, N. J.; Robert D. Foote, Morristown, and George W. Stickle, Rockaway, N. J., are incorporators.

NEWARK, N. J.—The White Line Traction Co. was incorporated June 9, with \$4,000,000 capital stock, with \$25,000 paid in, to construct and operate lines in New Jersey. Fred. W. Egner, Edward A. Pruden and George Barker, 763 Broad St., Newark, are incorporators.

PATERSON, N. J.—Albert A. Wilcox, Paterson, bought the property of the Paterson Central Electric R. R., at a foreclosure sale, on June 15.

TRENTON, N. J.—It is announced that most of the

a foreclosure sale, on June 15.

TRENTON, N. J.—It is announced that most of the right of way has been obtained, and that construction work will soon be hegun on the Trenton, Lakewood & Seashore Electric Ry., from Trenton to Point Pleasant, via Newton, Allentown, Cassville, Lakewood and Burrsville. John L. Murphy, Trenton, and Gerrit S. Glen, New York, are interested; C. C. Vermuele, Engr., 203 Broadway, New York.

Broadway, New York.

BETHLEHEM, PA.—The Bethlehem & Bath St. Ry.
Co. was incorporated June 20, with \$36,000 capital stock,
to construct a line hetween Bethlehem and Bath. Joseph
J. McKee, Pres.; F. W. Leinhach and Geo. H. Wolle, of
Bethlehem; A. S. Keck, Allentown, Pa., are incorporators.

Bethlehem; A. S. Keck, Allentown, Pa., are incorporators. OXFORD, PA.—G. W. Taft, Kennett Square, Pa., Pres. of Oxford & Kennett Electric Ry. Co., incorporated June 12, informs us that this line is projected as an extension of the West Chester, Kennett & Wilmington Ry. No steps have heen taken beyond procuring a charter.

SPRINGFIELD, PA.—The Springfield St. Ry. Co. was incorporated June 6, with \$75,000 capital stock, to build in Delaware county. Simon Bennett, Pres., Springfield; P. D. Curtis, Marple, Pa., and F. H. MacDonald, Philadelphia, are incorporators.

VARDLEY, PA.—The Vardley, Morrisville & Tranton St.

YARDLEY, PA.—The Yardley, Morrisville & Trenton St. Ry. Co. was incorporated June 7, with \$36,000 capital stock, to build in Yardley, W. F. Sadler, Pres., and M. F. Thompson, Carlisle; W. F. Sadler, Jr., Trenton, N. J.

WASHINGTON, D. C.—The district commissioners have authorized the Washington Heights Traction R. R. Co. to commence work on its line. It is not intended to complete the work until an entrance into this city is provided for by the construction of a proposed extension of the Capital Traction Co.'s line.

ANNAPOLIS, MD.—The Potomac & Severa Electric R. Co. has oeen incorporated, with \$1,000,000 capital slock, to build from the eastern line of the District of Columbia to this city, on the Severa River, J. O. Elingston, and incorporated, with \$1,000,000 capital slock, to was incorporated June 2, with \$200,000 capital stock, by W. M. Duglass, Millerstown, Fa., Albert Nizzell, Hagerstown, and others.

NORFOLK, VA.—The Washington Traction & Electric Co. was incorporated June b, with \$12,000,000 proposed capital stock. Samuel B. Lawrence, Fres., 'Go. H. Co. Traction & Electric Co. was incorporated June b, with \$12,000,000 proposed capital stock. Samuel B. Lawrence, Fres., 'Go. H. Co. H. C. Scantandburg, S. C.—F. D. McEowen, Coarleston & Spencer, Treas, New York.

Spencer, Treas, New York.

Stantanburg, S. C.-F. D. McEowen, Charleston, S. C., and F. B. Jennings, New York, are reported to marreceived a tranchise to construct a street rainway and a electric light and power plant in this city. About so miles of line will be nuilt at once. F. H. Knox, Eng. (AMEN. ADDR.)

mines of line will be built at once. F. H. Koox, Edg.,
OWENSBORO, KY.—We are informed that the right of
way has oeen obtained for the proposed twensooro &
Cainoun Electric ky., to be about 22 miles in length
About 10,000 acres of coal lands have been leased; petroleum, natural gas and clays are also found along the
route. For further information address John D. Fredd,
Owensboro. J. H. Hickman, Fres.
ALLIANCE, O.—The Alliance, Selina & Salem Electra
Ry. Co., of Selina, was incorporated June 7, with \$100,000.
Capital stock, to build from Alliance to Schring, H. W.
Kieln, J. C. Whitla and H. C. Estep are incorporators.
FINDLAY, O.—The Findlay St. Ry. Co. has been
granted a franchise to ould an extension to Mortimer.
SPRINGFIELD, O.—The Springfield, Columbus & Zanesville Electric ky. Co. has been incorporated, with \$10.
OU capital stock, by J. A. Menling, A. T. Seymour, W.
H. Johes and others, of Columbus, O.
INDIANAPOLIS, IND.—We are informed that plans
have been perfected for the proposed contents.

ood capital stock, by J. A. Menling, A. T. Seymour, W. H. Jones and others, of Columbus, O.

INDIANAPOLIS, IND.—We are informed that plans have been periected tor the proposed indianapolis & Martinsville Electric St. Ry. to run irom this city to Martinsville Electric St. Ry. to run irom this city to Martinsville, 30 miles, and that bids for construction and equipment, jointly or separately, will now be received. The company will also offer \$500,000 in bonds for sale. The proposed line will pass through into towns, and the adjacent farms are prosperous. There is also an abundant water power along the route. Address J. C. Tarkington, Gen. Mgr., 21s North Meridian St., Indianapolis.

LOWELL, MICH.—J. H. McLane & Co., Coldwater, Mich., are reported to bave beer awarded the contract. June 9, for constructing the proposed Grand Rapids, Beiding & Saginaw Electric Ry. From Lowell to Beiding, at about \$150,000. Work is to be completed by Sept. Io. PEORIA, H.L.—John J. McDonald has been awarded the contract tor erecting the car and round house of the Peoria & Pekin Terminal Co., to cost about \$25,000. The power house is now under construction.

ROCKFORD, H.L.—The Rock River Electric Ry. is now

power house is now under construction.

ROCKFORD, ILL.—The Rock River Electric Ry. is now under construction, and a large force of men is at work rebuilding the dam at Oregon, where the power station will be located. The line will be 25 mites in length, extending from Rockford to Oregon, Ill., and will connect with the Chicago Great Westeru Ry. at Byron. Next year it will be extended to Dixou, and eventually to Sterling and some point on the Mississippi River. The track will he laid with 69-lb. T-rails, and the line will carry passengers and freight traffic, serving as a feeder to the Chicago Great Western Ry. E. M. Hopkins, Pres.

MANKATO, MINN.—The Mankato Electric St. Ry., Light & Power Co. was incorporated, June 19, with \$500,000 capital stock. L. S. Lamm, C. J. McBeth and O. W. Schmidt are incorporators.

MINNEAPOLIS, MINN.—The Minneapolis & St. Paul Suburban Ry. Co. was incorporated, June 9, with \$1.300,000 capital stock, to build an extension to Stillwater. Thomas Lowry, C. G. Goodrich and M. B. Koon.

BAKERSFIELD, CAL.—H. F. Williams & Co. have ap-

BAKERSFIELD, CAL.—H. F. Williams & Co. have applied to this city for a franchise to build from this city to Kern. Power will be furnished by the Development Co. in Kern River Canyon, 14 miles from Bakersfield.

RIO DE JANIERO, BRAZIL.—Bids are asked by Brazilian government until Aug. 12 for 30 miles of st railway track.

## ELECTRIC LIGHT AND POWER.

ELECTRIC LIGHT AND POWER.

BOSTON, MASS.—Bids are asked until June 28 for installing a plant in the postoffice and subtreasury building. H. A Taylor, Asst. Secy., Washington.

EAST HADDAM, CONN.—The East Haddam Electric Co., it, is reported, proposes to build a stone dam 55 ft. high, a power house, etc., at East Hampton; estimated cost, ahout \$75,000.

CAMILLUS, N. Y.—W. G. Sisson, of the Camillus Electric Light Co., writes us that it is assured that the franchise will be secured in about two months. Bids will be wanted for a complete plant.

FREEPORT, (L. I.), N. Y.—This place voted on June 10 to issue \$10,000 in honds for enlarging the plant.

OGDENSBURG, N. Y.—Amasa Thornton, 25 Nassau St., and F. S. Williamson, Consult. Engr., 257 Broadway, both of New York, are interested in a proposed water-power plant on the Waddington River, at Waddington. We are informed that the plant will at first generate 3,000 HP, and will cost \$350,000. The project is not financed as yet. Mr. Williamson has made a report to Sir Douglas Fox, 28 Victoria St., S. W., London, which he has endorsed. Further examinations will now be made. It is intended to develop 13,000 HP, by means of turhines. Contracts have already been made to sell several thousand electric horse-power. Mr. Williamson will be chief engineer, with Sir Douglas Fox and Francis Fox, London, writes us that preliminary plans are being prepared for the development of the water power at Trenton Falis; the construction of a power house, electrical equipment and necessary transmission line for the Trenton Falis Electric Light & Power Co. The hydraulic development has not as yet been given in charge of the engineers, but probably will be at an early date. The company hopes to be ahle to let the contracts in July. A meeting of the stockholders will be held June 28 to approve the agreement made by the directors for the consolidation of the Utica Electric Light Co., and the Trenton Falis Electric Light Power Co.

CARBONDALE, PA.—A new company is reported by local papers as helng

CARBONDALE, PA.—A new company is reported by local papers as helng or anized to build a plant.

GIRARD, PA.—Bids are asked until July 7 for furnish-lag the materials and for constructing a plant and water-works, as stated in our advertising columns. J. F. Witmer, Engr., Ellicott Square, Buffalo, N. Y.; C. C. Sherman, Burgess.

LUZERNE, PA.—Councilman J. T. Killeen writes us that the town is about to build a plant.

DOVER, DEL.—Councilman Alden R. Benson writes us that bids will be wanted in June or July for constructing a plant fo cost \$10,000. The plant will have a capacity for 40 are and 500 incandescent lights.

BALTIMORE, MD.—The council is considering an ordinance appointing A. Leo Knott, Prof. Jacob H. Hollender, of the Johns Hopkins University, and Chas. E. Phelps, Jr., Ch. Engr. Suhway Comn., a commission to investigate the question of a municipal plant.

ch. Engr. Subway Comm., a commission to threestigate the question of a municipal plant.

NORFOLK, VA.—The property of the Virginia Electric Co. which has been purchased for about \$700,000 by Middendorf, Oliver & Co. Baltimore, and John L. Williams & Sons, Richmond, Va., has been transferred in New York. The syndicate is the same that controls the Norfolk & Ocean View Ry. Co. and the Norfolk & Ocean View Ry. Co. The electric plant will be enlarged and improved and will furnish power to the street railways. HARPER'S FERRY, W. VA.—The Harper's Ferry Light & Power Co.'s plant has been sold to John A. Livers, of Gettysburg, Pa. and H. W. Riley, of Hanover, Pa., who will enlarge the plant.

THOMAS, W. VA.—O. M. Nearsherd, Mayor, writes us that nothing will be done toward constructing a plant until the water-works are completed, which will be Sept. 1. GASTONIA, N. C.—An election will be beld Aug. 1 to

GASTONIA, N. C.—An election will be beld Aug. 1 to one on the question of issuing bonds for a plant.

LOUISBURG, N. C.—Geo. S. Baker writes us that the lection to vote on the question of building a plant and rafer-works has been postponed.

wafer-works has been postponed.
WAYNESVILLE, N. C.—H. W. Ferguson, Mayor, writes us that hids will be wanted about July 15 for the purchase of the bonds for the proposed water power plant.
GREENVILLE, S. C.—The American Pipe Mfg. Co., 1319 Filbert St., Philadelphia, is reported as preparing to improve the plant here, at a cost of about \$25,000. HUNTSVILLE, ALA.—The Huntsville Ry., Light & Power Co., it is stated, will build a plant.

BASTROP, LA.—This place has voted to issue bonds for plant and water-works.

a plant and water-works.

LAKE PROVIDENCE, LA.—Arthur Hider, U. S. Asst. Engr., Lake Providence, has been engaged to prepare plans for a plant and water-works to cost \$17,500.

COOKEVILLE, TENN.-A company is being organized build a plant, according to reports.

BAINBRIDGE, O.—E. O. Lease, Mayor, writes us that honds for the plant, to cost \$7,000, will probably be sold about Aug. 1.

bout Aug. 1.

BATAVIA, O.—John Hillen, Mayor, writes us that the ommittee, which is investigating the question of building plant will report July 3. A report states that \$50,000 n bonds will be issued for a plant and water-works.

BELLAIRE, O.—Bids will be asked at once for lighting

he streets.

VERSAILLES, O.—This place is making arrangements or the construction of its proposed plant and water-works o cost about \$25,000. J. W. Reser, Cy. Clk.

SEYMOUR, IND.—The question of either building a city lant or of granting a franchise will soon be voted upon, ecording to reports.

according to reports.

GRAND RAPIDS, MICH.—The Frank B. Rae Engineering Co. and W. S. Monroe, Chicago, Ill., have submitted a report for a power plant on the Grand River, at this place, to cost about \$330,000. W. H. Rowe, Julius Berkey, C. G. A. Voigt and J. W. Spooner are interested.

CHICAGO, ILL.—The Diamond Match Co. has submitted a proposition to the sanitary board to utilize the water power of the drainage channel. The work is estimated to DECATUR, ILL.—A row.

DECATUR, ILL.—A new company is said to have been rganized to build a plant. John Allen is interested.

LA SALLE, ILL.—The Enterprise Light, Heat & Power Co. has been granted a franchise. A steam-heating and electric light plant to cost \$100,000 will be built at once, according to reports.

electric light plant to cost \$100,000 will be built at once, according to reports.

LOUISVILLE, ILL.—It is stated that the council has voted to contract with Reed & Surrels, Chicago, to put in a plant and water-works for this city, to cost \$10,500. MINIER, ILL.—The question of building a plant is being considered by the trustees.

DUBUQUE, IA.—The Dubuque Light & Traction Co.'s plant has been sold to the General Electric Co. Schenectady, N. Y., for \$50,600. It is said that a number of improvements will be made.

MECHANICSVILLE, IA.—We are informed that a 10-year lighting contract has been made with Davidson & Helmer, of this place. The plant is to be in operation by Sept. 1. L. L. Kennedy, Mayor.

SEYMOUR, IA.—Bids are asked by R. F. Greer, Town Cik., for furnishing the material and for constructing a plant, as advertised in Engineering News. Population, 2.200. Fred. W. Salmon, Engr., Burlington, Ia.

MANKATO, MINN.—The Mankato Electric Ry., Light-

MANKATO, MINN.—The Mankato Electric Ry., Light-ing & Power Co. has purchased some property on which a new plant will be built. W. I. Gray & Co., Engrs., Sykes Bldg., Minneapolis.

SANDSTONE, MINN.—A company has been organized build a plant, it having already received the contract or lighting the town.

KANSAS CITY, MO.—The Mutual Electric Light & Power Co. has been organized by W. H. Weiss, Coate'a House, Kansas City, and others, to build a plant, to cost about \$500,000.

PINE BLUFF, ARK.—Plans are reported as being pre-ared for a plant.

pared for a plant.

BELLEVILLE, TEX.—J. G. Wessendorf is reported as interested in the proposed plant.

LOVELAND, COLO.—Ray Smith, Longmont, Colo., has been granted a franchise, it to be in operation Oct. 1.

VICTOR, COLO.—The Hayden Electric Co., of Goldfield, Colo., has applied for a 25-year franchise.

NAPA, CAL.—The Clear Lake Electric Power Co. proposes to build a plant on Cache Creek to transmit power to St. Helena, Napa, Vallejo, Benicia, Santa Rosa, etc., estimated cost \$650,000. Richard Wylle, Pres., Napa; E. H. Winship, Gen. Mgr., Napa; A. M. Hunt, 310 Pine St., and Wynn Meredith, Engrs, both of San Francisco.

SANTA ANA, CAL.—The trustees have contracted with

and wynn Meredith, Engrs, both or San Francisco. SANTA ANA, CAL.—The trustees have contracted with Belmont, Perry & Co., Los Angeles, to install a plant to cost about \$60,000. Power is to be brought from Santa Ana Canyon, 100 mlles distant, in the San Bernardino Mountains.

Mountains.

LEHI, UTAH.—Christian Garff, of Ogden, Utah, has been granted a franchise. A plant to cost about \$30,000 will be built at the mouth of American Fork Canyon.

HAMILTON, ONT.—The board of works is said to have sceepted a proposition submitted by the Cataract Power Co. to furnish are lights for 10 years from Sept. 1, 1900.

PRESCOTT, ONT.—Bids are asked until June 30 for an engine for a plant; capacity, about 125 HP. Galt & Speakman, Engrs., Canada Life Bidg., Toronto, Ont.

ST. HYACINTHE. QUE.—Press reports state as fol-

ST. HYACINTHE, QUE.—Press reports state as follows: A syndicate of Toronto capitalists has purchased the franchises and property of the Hyacinthe Power &

Electric Light Co. It is proposed to rebuild the power house, remodel the electric system and make extensive improvements, for which considerable machinery and supplies will be required.

THURSO, QUE.—The Stadacona Electric & Water Co. is to make improvements, for which the town has appropriated \$18,000, according to reports.

NELSON, B. C.—The council is reported as making arrangements for extending the plant, to cost \$15,000, for which bonds were voted May 30.

SPRINGFIELD, VT.—M. L. Lawrence, Town Clk., Informs us that plans for the construction of a bridge bave been submitted, but that no action will be taken soon.

AGAWAM, MASS.—Bids are asked by the selectmen until June 22 for the construction of a two 120-ft span riveted steel bridge; estimated cost, \$16,000. H. E. Bodentha, Chn. Selectmen; H. L. Norton, Des. Engr.

GLENS FALLS. N. Y.—The contract for the construction of two iron bridges over Halfwar Brook was awarded June 16 to Monty, Higley & Co., of Sandy Hill, at \$1,090.

OWEGO, N. Y.—Reports state that the contract for constructing three country bridges has been let to the Owego Bridge Co., at \$2,800.

ROCK RIFT, N. Y.—It is stated that a new steel bridge

ROCK RIFT, N. Y.—It is stated that a new steel bridge to be erected at a cost of \$8,000.

SYRACUSE, N. Y.—It is reported that the contract for the erection of a 40-ft. span bridge over Ley Creek in the own of Salina has been awarded to H. Ryan, at \$2,000. town of Salina has been awarded to H. Ryan, at \$2,000. CAPE MAY, N. J.—Bids are asked by the committee of the board of freeholders until June 29 for the construction of a bridge and abutments at Schellenger's Landing, as stated in our advertising columns. F. R. Long Co., Engrs., 320 Broadway, New York.

COATESVILLE, PA.—Bids are asked by the Street Committee until July 1 for the construction of a stone and brick bridge over Gibbon's Run on Fourth ive. Joseph Grabam, Chn.

seph Graham, Chn.

KANE, PA.—Bids are asked by the Borough of Kane for the construction of an Iron or steel bridge across the Pittsburg & Easton R. R. tracks. J. E. Mullin, Secy.

NEWPORT, KY.—E. E. Ball, County Engr., California, Ky., informs us that the following bids were received June 5 for the construction of the iron spans over Ten-Mile and Phillips Creeks:

Mile and rullips Creeks.		
	Ten-Mile Creek. 24-ft.	Phillips Creek. 36-ft.
	span.	snan.
Pittsburg Bridge Co., Pittsburg	\$432	\$684
La Fayette Bridge Co., La Fayette		589
Cincinnati Bridge Co., Cincinnat		598
Brackett Bridge Co., Cincinnati		579
Jollet Bridge Co., Joliet, Ill		
Variety Iron Works, Cleveland		
Massillon Bridge Co., Massillon		586

\*A lin. ft.
There will be under construction in the next 90 days three wooden bridges and two iron bridges.

LIMA, O.—Bids are asked until July 6 for the construc-tion of two steel bridges over Ottawa River, as stated in our advertising columns. C. E. Lynch, Cy. Clk.

tion of two steel bridges over Ottawa River, as stated in our advertising columns. C. E. Lynch, Cy. Clk.

FOWLER, IND.—Bids are asked by the county commissioners of Benton county until July 5 for the construction of five steel county bridges. J. A. Blaisdel, Surv.

GREENFIELD, IND.—Bids are asked by the county commissioners until June 24 for the construction of three county bridges, and until July 10 for the construction of a bridge over Sugar Creek near Milners Corner on the Township line between Green and Brown townships, Hancock county, Ind. John Manche, Comr.

INDIANAPOLIS, IND.—Bids are asked by the board of park commissioners until June 23 for the construction of two footway suspension bridges in Riverside Park, according to reports. Wm E. English, Chn.—Reports state that at the meeting June 12 the board of works requested the city controller to recommend that there be appropriated the sum of \$150,000 for the construction of new bridges over Fall Creek and White River.

KENTLAND, IND.—Bids are asked by the county commissioners until July 3 for the construction of the superstructure of ten bridges, according to reports. Edward E. Parsons, Chn.

INDEPENDENCE, WIS.—It is stated that the village hoard will ask for bids for the construction of a steel bridge across Elk Creek.

DAKOTAH. IA.—We are informed that the Clinton Bridge Co., Clinton, Ia., bid \$2,736 for a 170-ft. span steel bridge to he erected at this place.

pringe to ne erected at this place.

STAPLES, MINN.—Bids are asked until June 24 for the onstruction of a bridge over Swan Creek, according to eports. Ed. Ryan, Town Clk.

COOPERSTOWN, N. DAK.—Bids are asked until July for the construction of two bridges, according to resorts. Mason Knapp, Town Clk.

DICKINSON, N. DAK.—Bids are asked until July 8 for he construction of a steel bridge, according to reports. ohn Pressbeck, County Audr.

John Pressbeck, County Audr.

FARGO, N. DAK.—Bids are asked until July 10 for the construction of a steel bridge across the Maple River, according to reports. O. J. Olson, County Audr.

GLENDIVE, MONT.—Reports state that the question of rebuilding the bridge, at an estimated cost of \$40,000, is being considered.

MILES CITY MONT.—Bids control of the property of th

rebuilding the bridge, at an estimated cost of \$40,000, is being considered.

MILES CITY, MONT.—Bids are asked by A. H. Swerdfiger, Clerk of Custer county, until June 26, for the construction of two wagon bridges, one over Powder River and the other over Mispath Creek, according to reports. PORT ORCHARD, WASH.—Bids are asked until July 3 for the construction of a bridge in road district No. 11, on Watts Road. C. W. Clausen, Audr. Kitsap County.

COQUILLE, ORE.—Bids are asked by the County Court of Coos county until July 8 for plans, specifications, etc., and for building a bridge according to such plans across the middle fork of the Coquille River. L. Harlocker, County Judge.

LOS GATOS, CAL.—Bids are asked until July 3 for the construction of a bridge over Los Gatos Creek, at Campbell's Ave.

SAN JOSE, CAL.—Bids are asked by the City Clerk until July 3 for the construction of a bridge over San Antonio Creek.

WATSONVILLE, CAL.—Bids are asked by the county supervisors until July 3 for the construction of a bridge over Corralitos Creek. H. H. Miller, Clk. of the Bd.

over Corrations Creek. H. H. Miller, Cik. of the Bd.
WILLOWS, CAL.—Reports state that the Southern Pacific will during this month erect a steel bridge across
Story Creek, at Orland; also one across Walker Creek,
between this place and Germantown.

ALBUQUERQUE, N. MEX.—Reports state that the contract for building the bridge across the Rio Grande Rivar
has been awarded to the Pueblo Bridge Co., of Pueblo.
Colo., at \$13,000.

#### BUILDINGS.

BOSTON, MASS.—Bids are asked until June 24 for the installation of a bot-water heating apparatus for the rope-walk, etc., at the navy yard, Boston. A. S. Kenny, Paymaster-General, U. S. N., Washingfon, D. C. NEWPORT, R. I.—Bids are asked by the bureau of navigation, Washington, D. C., until July 12, for constructing a barracks at the U. S. naval training station on Coaster's Harbor Island, Newport.

NEW HAVEN, CONN.—Plans are reported to have been

a barracks at the U. S. naval training station on Coaster's Harbor Island, Newport.

NEW HAVEN, CONN.—Plans are reported to have been accepted for the new law school building for Yale University, to be erected on Elm Sf. at a cost of \$100,000.

Cady, Berg & See, 3I East 17th St., New York.

BROOKLYN, N. Y.—We are informed that the following bids were received by the bureau of yards and docks June 17 for crecting an administration building for steam engineering purposes at the navy yard. Brooklyn: K. A. Murphy, Brooklyn, \$34,900; Ryan & McFarran, New York, \$38,500; W. G. Triest, New York, \$38,500; W. G. Triest, New York, \$38,500; M. G. Triest, New York, \$38,500; M. G. Triest, New York, \$38,500; M. G. Triest, New York, \$1,000; J. C. C. New York, \$41,850; Jno. Thatcher, Brooklyn, \$43,460.—The following bids were received by the board of education, at 585 Broadway, New York, June 19, for building an addition to public school 64, Brooklyn; Geo. Hilderbrand, Brooklyn, \$166,989; K. A. Murphy 96 Linwood St., \$182,000; Mapes-Reeve Construction Co., 150 Nassau St., New York, \$18,302; John Thatcher, 54 Park Ave., \$189,661; W. & T. Lamb, Fulton St., N. Y., \$192,367.—The following bids were received June 19 for heating and ventilating public school 84, Brooklyn; all bidders of New York: E. Butzler, 178 Centre St., \$22,597; New York Steam Fitting Co., 137 Elm St., \$22,900; Phillip Dorf Co., \$23,-650; Blake & Williams, 362 West Broadway, \$23,145; Evans, Almiral & Co., 44 Dev St., \$23,819; Wells & Newton Co., 231 Eldridge St., \$23,840.

GROTON, N. Y.—Bids are asked until June 30 for constructing a fremer's hell and municipal huilding. L. J.

ton Co., 231 Eldridge St., \$23,840.
GROTON, N. Y.—Bids are asked until June 30 for constructing a firemen's hell and municinal huilding. L. J. Townley, Village Clk.; M. L. Van Kirk, Arch.. Waterloo, JAMESVILLE. N. Y.—Bids are asked until June 26 for constructing and equipping the proposed penitentiary st this place for Onondaga county; deposit, \$25,000. C. E. Shinaman, Clk. of Supervisors, Memorial Bidg., Syracuse; M. D. Makepeace, Arch., Syracuse.
LOWVILLE, N. Y.—The bids received for erecting the proposed town hall for this place exceeded the \$20,000 appropriation by \$6,000. No swards were made: the plans will probably be revised. Leon H. Lempert, Arch., Rochester, N. Y.

anpropriation by \$6,000. No ewards were made: the plans will probably be revised. Leon H. Lempert, Arch., Rochester, N. Y.

NEW YORK, N. Y.—Blds are asked by the bureau of yards and docks, Washington, D. C., until July I for the removal of old roof and construction of new roof for building No. 12, New York navy yard.—Plans have been filed by C. F. Deneger, 124 East 84th St., for four 5-story brick filed buildings on 98th St., near Madison Ave.; to cost \$104,000. Edward Wenz, Arch., 1491 3d Ave.; by Manhattan Brass Co., 485 1st Ave., for a 6-story brick frectory building on 28th St., near Ist Ave., to cost \$75,000. Buchman & Deisler, Archs.; by Adolph Onenbym. 42 Greene St., for two 5-story brick and stone dwellings on Riverside Drive, near 108th St., fo cost \$80,000. Robt D. Kohn, Arch., 96 5th Ave.; by Geo. M. Jansen, 160 East 14th St., for a 3-story brick theatre building on 42d St., near 7th Ave., to cost \$200.000. John E. Kerby, Arch., 722 Trement Ave.; by M. McCormack, 50 West 127tb St., for a 7-story brick flat and store building at 118th St. and St. Nicholas Ave., to cost \$200.000. Neville & Bagge, Archs., 217 West 125th St.; by J. McSweeney, 241 West 103d St., and Broadway, to cost \$125,000. Brower & Ganle, Archs., 2787 Broadway; by Owen Costello, 181 East 84tb St., for a 7-story brick store and loft building, at 56 East 11th St., to cost \$50,000. R. Moeller, Arch., 503 Strauss & Rothsebild, 100 East Slat St., for a 5-story brick store and loft building, at 56 East 11th St., by Cost \$50,000. R. Moeller, Arch., 503 Sth Ave.; to cost \$70,000. G. E. Pelham, Arch., 503 Sth Ave.; to cost \$70,000. G. F. Pelham, Arch., 503 Sth Ave.; to cost \$140,000. G. F. Pelham, Arch., 503 Sth Ave.; to cost \$140,000. G. F. Pelham, Arch., 503 Sth Ave.; to cost \$140,000. G. F. Pelham, Arch. New YORK N. Y.—Bids are asked by the board of education, at 585 Broadway, until June 26, for erecting additions to several school buildings; also until June 20 for heating and ventilating apparatus. electric lighting, elevators, plumbing, e

NANDALIAN, etc.
YONKERS, N. Y.—Bids are asked by the board of sduation until July 1 for erecting a school building at Mo-

YONKERS, N. Y.—Bids are asked by the beard of aducation until July 1 for erecting a school building at McLean and Park Hill Aves.

NEWARK, N. J.—Bids are asked until June 27 for constructing the masonry and frame work of shelters Nos. 1, 2 and 3, and public lavatory building, in Branch Brook Park, Newark, as stated in our advertising columns. A. Church Seey, of Essex County Park Cemmission, 800 Perca? St. Newark: Carrere & Hastings, Archs., 28 East 41st St., New York.

ORANGE, N. J.—It is reported that a free public library building will be erected in this city as a memorial to the late Pr. J. M. Stickler.

CARLISTE, P.A.—Bids are asked until June 28 for furnishing and delivering about 2,000 bushels of sand, 650 bushels of lime, 150,000 brick structural fron, etc., for the Carlisle Indian Industrial School. R. H. Pratt, Supt. NORRISTOWN, P.A.—Bids are asked until June 27 for constructing two new brick ward buildings at the State Hosnital for Insane for the Southeastern District of Pennsylvania, at this pisce. Thomas P. Lonsdale, Consulting Arch., 4th and Walnut Sts., Philadelphia.

WASHINGTON, D. C.—Bids are asked until July 10 for excavating and boring on site of new building for government nrinting office. Lient, John S. Sewell, U. S. Engra., 735 North Capitol St.—The following bids were received June 10 for erecting a new 8-room school building on 15th 8t., between Rossedle and Gales Ave.; W. E. Sheir, 837, 550; Richardson & Burgess, 837,214; Glesson & Humphrey, 832,300, with \$400 extra for eement and \$600 extra for floors with steel girders in the school rooms. As the bids exceed the appropriation, no contracts will probably be let.—The following bids were received by the sunervising architect, Washington, D. C., June 15, for renairs to the heating and how U. S. Marline Hosnital Service (Rutler) Bidg, and the U. S. Marline Hosnital Service (Rutler) Bidg, in this city; Philadelphia (Pa.) Steam Heefing Co., \$23,993, Oct. 15: Zellers & Co., 1408 P. St., N.W., Washington, S. C., Scholan Are. C. Williamsport, Pa

\$25.599.3 mos.

WASHINGTON, D. C.—Bids are asked by the district commissioners until June 26 for constructing an 8-room school building at South Carolina Ave. and 28 t., S. E. and an 8-room school building on 15th 5t, between Galan and Rosedsle Sts., N. E.: also for hot air or hot blast steam heating appearstus, with mechanical ventilating appliances, for the same.

pliances, for the same.

FORTRESS MONROE, VA.—The following bids are reported to have been received June 10 for constructing a hospital steward's quarters at Fort Monroe; C. P. Townsley, Q. M., U. S. A.: D. B. Burham, Newport News, Va.,

\$2,590; A. E. Murray, Norfolk, Va., \$3,075; P. A. Fuller, Phoebus, Va., \$3,080; Holtzelaw Bros., Hampton, Va., \$2,783; A. P. Gladden, Newport News, Va., \$2,693; R. E. Bristow, Newport News, Va., \$2,575.

Bristow, Newport News, Va., \$2,575.

HUNTINGTON, W. VA.—The Gresham & Boyd Co., Charleston, W. Va., is reported to have been awarded the contract for erecting a building for the Home for Incurables at this place, at \$24,870. Bids are asked until July 1 for heating the same. John K. Thompson, Chn. of Bd. PARKERSBURG, W. VA.—Caldwell & Drake, Columbus, Ind., are reported to have heen awarded the contract for erecting a new court house here for Wood county, at \$80,1448. Work is to begin at once. L. W. Thomas, Arch., Canton, O.

GREENSBORO, N. C.—A fire at this place June 17 detroyed the Benbow Hotel building; estimated loss,\$75,000.

G. Fischer, Proprietor.

B. G. Fischer, Proprietor.

RALEIGH, N. C.—At the election in this city on June
12 it was voted to issue \$50,000 in school bonds.

PORT ROYAL, S. C.—Bids are asked until July 1 for
constructing a paint shop and storage for combusfibles,
120:00x15 ft., of brick and steel at the naval station, Port
toyal. M. T. Endieott, Ch. of Burcau of Yards and
Docks, Washington, D. C.

ATLANTA GA.—The Atlanta Realty Co. is reported to

ATLANTA, GA.—The Atlanta Realty Co. is reported to have decided to erect a new 15-story building at Brosd and Marietta Sts., to cost about \$200,000. Harry M. Attanson, Atlanta, and F. J. Coolidge, Jr., Boston, Mass., are nterested.

EIRWIN, TENN.—Rids are asked until July I for contructing a foreman's dwelling at the U. S. fish commission near Erwin. Geo. M. Bowers, Comr., Washington, AKRON, O.—It is reported that St. Bernard's Church will erect a new building, 75x168 ft., to cost about \$60,000.

B. Brown, Pastor.

CLEVELAND, O.—Bids are asked until June 24 for contructing a life-saving station in this city upon a wharf obe built for that purpose for the U. S. life-saving serice.

H. L. Piper, Acting Gen. Supt., Washington, D.C. COSHOCTON, O.—Rids are asked until July 3 for erect-

vice. H. L. Piper, Acting Gen. Supt., Washington, D.C. COSHOCTON, D.—Rids are asked until July 3 for erecting a 4-room school building in this city. J. W. Cassingham, Cik. Bd.; H. C. Lindsay, Arch., Zanesville, O. LEBANON, IND.—Bids are asked until July 29 for erecting a new court house for Boone county, to cost about \$200,000. Plans and specifications have been adopted.

CENTERVILLE, MICH.—Bids are asked until June for erecting a court house at this place for St. Jose county. Address J. H. Whitmer, Centerville; Sidney Osgood, Arch., Grand Rapids, Mich.

county. Address J. H. Whitmer, Centerville; Sidney J. Dsgood, Arch., Grand Rapids, Mich.

DETROIT, MICH.—Bids are ssked until June 28 for constructing ahout 30 iron election hooths. D. W. H. Moreland, Pres. Bd. Pub. Wks.

MOUNT PLEASANT, MICH.—Bids are asked by the state board of education until June 23 for creeting an addition to the present normal school building. Address, J. E. Hammond; Spies & Itohns, Archs., Chamber of Commerce Bidg., Detroit, Mich.

SAGINAW, MICH.—Bids are asked by the board of public works until June 23 for constructing a chapel and receiving vault, Forest Lawn Cemetery. Alfred Davies, Cik.

CHICAGO, 11.1.—Bids are asked by the supervising srchitect, Washington, D. C., until July I, for constructing (except heating apparatus) an extension to the temporary post office building in this city.—D. H. Burnbam & Co. are said to he preparing plans for the new hospital building to be built for the Wesley Hospital Association st Dearborn and 23th Sts., to cost ahout \$200,000.

WEYAUWEGA, WIS.—Bids are asked by A. L. Hutchinson until June 24 for constructing a hotel building at this place to cost about \$12,000. A. D. Werner, Arch., Fond du Lac, Wis.

DES MOINES, IA.—We are informed that bids were opened June 19 for erecting a 2-story office building, 66x 132 ft., with iron work heavy enough for three additional stories. Hallett & Russon, Archs.

VINTON, IA.—A special election for Benton county will be held July 18 to vofe upon the proposition of erecting a mew court house to cost ahout \$75,000.

MINNEAPOLIS, MINN.—Bids are asked by the supervising srchitect. Washington, D. C., until July 5 for certising srchitect. Washington, D. C., until July 5 for certising srchitect. Washington, D. C., until July 5 for certising srchitect. Washington, D. C., until July 5 for certising srchitect. Washington, D. C., until July 5 for certising srchitect.

new court house to cost about \$75,000.

MINNEAPOLIS, MINN.—Bids are asked by the supervising srchitect, Washingten, D. C., until July 5 for certain interior changes and the erection and completion (except heating apparatus and electric fixfures) of an extension of the U. S. building in this city.—Plans are reported to have been prepared for a new office building, to be erected at 2d and 4th Sts., to cost \$115,000. Cass Gilbert, Arch.—An S-story business huilding, to be known as the Republican Block, will soon be erected on 1st Ave. as the Republican Block, will soon be erected an 1st Ave. as the Republican Block, will soon be erected on 1st Ave. as the Republican Block, will soon be erected on 1st Ave. as the Republican Block, will soon be erected on 1st Ave. Mar. H. W. Jones, Arch.—P. W. De Lancy, Minneapolis, is reported to have received the contract for erecting the new horticulture and physics building at the state arricultural farm, at \$24,908. The contract for \$,500 ft. of radiation was let to Hugh Kelly, at \$3.485.

FULTON, MO.—Bids are asked until June 29 for erecting a 3-story brick wing to Asylum No. 1, Fulton. P. S. Adams, Pres. Bd. of Mgrs.

PACIFIC, MO.—Bids are asked until June 24 for a low

pressure

dams, Pres. Bd. of Mgrs.

PACIFIC, MO.—Bids are asked until June 24 for a low ressure steam heating apparatus for the public school uilding. C. C. Close, Secy. of Bd.

COLLEGE STATION, TEX.—Bids are asked until June of for erecting a 55-room brick dormitory building; hond, 10,000. L. L. Foster, Pres. of Agricultural and Mechanical College of Texas.

29 for erecting a 55-room brick dormitory building: hond, \$10,000. L. L. Foster, Pres. of Agricultural and Mechanical College of Texas.

HELENA, MONT.—The following hids were received by the supervising architect. Washington, D. C., June 20, for the construction (except heating apparatus, elevator and electric wire conduits) of the U. S. huilding at Helena; time, 23 months: Montana Building Co., Helena, \$339,154; Amberg Granite Co., Chicago, \$349,269; Butler-Ryan Co., St. Paul, \$347,000.

SEB-154: Amberg Granite Co., Chicago, \$349,209; Butler-Ryan Co., St. Paul. \$347,000.

MILES CITY, MONT.—Bids are asked until June 24 for installing a steam heating plant in the girls' building, 48x to 67 ft., of the state reform school, requiring a 75-HP. holler. John E. de Carle, Secy. Bd. of Trustees.

SILETZ, ORE—Bids are asked by the office of Indian affairs, Washington, D. C., until July 20 for constructing a dining-room and kitchen at the Siletz agency hoarding school. T. Jay Buford, Indian Agt.

BERKELEY, WASH.—Wm. M. Fletcher, San Francisco, has been awarded the contract for building the new Wilmerding school of industrial arts, at \$19,904.

WINNIPEG, MANITOBA.—Plans are heing prepared for a natural science building for the University of Manitoha, to cost ahout \$40,000. George Browne, Arch.

FENELON FALLS, ONT.—Bids are asked until June 26 for erecting a town hall in this village. W. L. Rohson, Village Treas.

# WATER-WORKS.

LEWISTON, ME.—E. H. Gowing, 95 Milk St., Boston, Mnss., has submitted a report on extending the conduit from Lake Auburn. Mr. Gowing recommed the construction of a 36-in. line for 3,000 ft. and 24-in. line for the halance. The work will cost from \$39,000 to \$125,000, according to the route, three being named. Our correspondent informs us that the citizens, at a meeting on June 14, endorsed the motion to extend the line. J. A. Jones, Cy. Engr.; W. D. Pennell, Chn. Bd.

LIVERMORE FALLS, ME.—Bids are asked until July 1 for furnishing the materials and for excavating and laying about six miles of pipe, setting hydrants, gates, etc. The pipe, etc., has already been purchased from M. J. Drummond & Co., 192 Broadway, New York. J. A. Jones, Engr., Lewiston, Me. Address J. H. Maxwell, of the Livermore Falis Water Co.

NORTHFIELD, VT.—Prof. C. W. Emerson, Boston, has submitted a proposition to put in new works.

CHESHIRE, MASS.—The Cheshire Water Co. proposes to secure an additional water supply.

LENOX, MASS.—Local papers state that the Lenox

CHESHIRE, MASS.—The Cheshire Water Co. proposes to secure an additional water supply.

LENOX, MASS.—Local papers state that the Lenox Water Co. proposes to build a new pumping station and otherwise improve the works.

WILLIMANTIC. CONN.—Bids are asked by the committee until July 24 for furnishing pumping machinery for the water-works, as stated in our advertising columns.

LANSINGBURGH, N. Y.—Bids are asked by the board of water commissioners until July 6 for furnishing about 23,000 ft. of water pipe, etc., as stated in our advertising columns. C. E. Hicks, Engr.

MIDDLETOWN, N. Y.—The water commissioners have let the contract for a 3,000,000-gailon filter plant to the Continental Filter Co., 23 Wall St., New York. This will comprise a 1,000,000-gailon pressure plant of the Continental system, also a 2,000,000-gailon gravity plant, both contained in the same huilding.

SAVONA, N. Y.—T. C. Wall, Clk., writes us that the

SAVONA, N. Y.-T. C. Wall, Clk., writes us that the proposition to issue \$15,000 in bonds for works was voted down June 10.

world down June 10.

SCHENECTADY, N. Y.—Bids are asked until 10 a. m., June 24, for furnishing the necessary lead and packing and for lsying about three miles of water pipe. W. J. Marlette, Secy. Water Comrs.

WHITESBORO, N. Y.—The Whitestone Water-Works Co. has been organized to build works to supply Whitesboro, Oriskany and New York Mills. About 11 miles of mains and 85 hydrants will be wanted, and a pumping station and reservoir built. The source of supply will be Black Creek. Capital stock, \$50,000. W. G. Stone, Engr. Herald Bidg., Utica, N. Y.

HIGHBRIDGE, N. J.—L. J. Richardson, Oswego, N. Y., has been awarded the contract, at \$12,049, for works.

BANGOR. PA.—The franchise and property of the Bangor Water Co. have been sold to the Citizens' Water Co., which has applied for a charter, with a capital stocot \$80,000. W. R. Grubb, Pres; W. M. Bennett, Sccy. GIRARD, PA.—Bids are asked until July 7 for furnishing the material and for constructing works and a lightland plant, as stated in our advertising columns. J. F. Witmer Engr., Buffalo; C. J. Reeder, Cik.

LUZERNE, PA.-Councilman J. F. Kilicen writes us hat the town has made arrangements to take up the matter of constructing works.

matter of constructing works.

PHOENIXVILLE, PA—Bids are asked until June 29 for constructing a 5,500,000 guilon settling hasin, and for making other improvements and extensions to the pumping sintlion, as stinted in our advertising columns. Alex. Potter, Engr., 137 Brondway, New York; N. J. Waitneight, Chn. Water Com.

WILMINGTON, DEL.—T. A. Leisen, Supt. Parks, has submitted plans for a stand-pine of 500,000 gailons capacity, to be erected in Rockford Park. It will be 60 ft. high and 40 ft. in diameter.

BERRYVILLE, VA.—An election will be held June 29 to vote on the question of issuing \$25,000 in honds for works. D. H. Jones, Mayor.

WHEELING, W. VA.—The Baltimore & Ohio R. B. Co.

works. D. H. Jones, Mayor.

WHEELING, W. VA.—The Baltimore & Ohio R. R. Co. proposes to build a reservoir near Belmont to cover about 15 acres and to be 8 ft. deep.

SALISBURY, N. C.—S. F. Lord, Mayor, writes us that the city proposes to buy the works. No engineer had heen employed up to June 17. Population, 10,000.

FORT GAINES, GA.—Bids are asked by Joshua Jones, Cy. Cik., for sinking an artesian well. The council proposes to issue \$20,000 in refunding honds, and wishes to correspond with investors.

BASTROP, LA.—This city has voted to issue honds for

BASTROP, LA.—This city has voted to issue honds for works and an electric plant, according to reports.

LAKE PROVIDENCE, LA.—A. B. Hider, U. S. Asst. Engr., Lake Providence Reach, is reported to have heen engaged to prepare plans for works and an electric plant, to cost \$17,500.

to cost \$17,500.

COLUMBUS, MISS.—Bids are asked until July 20 for furnishing the materials and for constructing new works and a sewerage system; estimated cost, \$70,000. W. D. Humphries, Mayor; J. L. Ludlow, Engr., Winston, N. C. FAYETTEVILLE, TENN.—Guild & Co., Chattanooga, Tenn., have been awarded the contract for constructing the works at \$34,200.

NEW HAVEN, KY.-J. G. Burry, Mayor, writes us that no definite steps looking towards the construction of works has yet heen taken; the matter heing considered. BATAVIA, O.—It is reported that this place will issue 60,000 in honds for works and an electric plant. John

BUCYRUS, O.—The Bucyrus Water Co. is making seys for a reservoir covering 25 acres north of this to reservoir covering 25 acres north of this town. FREEPORT, O.—Bids are asked until July 6 for constructing works, according to reports. Walter Jones, Clk. GLOUSTER. O.—Bids are asked until June 28 for furnishing cast-iron pipe, hydrants, valves, lead, etc., for the works. The hids for these supplies received June 7 were rejected. J. A. Richsrds, Engr.

JACKSON, O.—The Jackson Water-Works Co. has heet incorporated with a capital stock of \$150,000 by Jas. Kin ney. S. C. Boyer and other contractors, who were re-cently awarded the contract for huilding works.

LEBANON, O.—An election will be held July 10 to vote on the question of issuing \$2,000 in bonds for new mains. F. M. Hamilton, Jr., Mayor.

LAKEWOOD, O.—Bids are asked until June 30 for furnishing the materials and for laying 6-ln. water pipe, with hydrants, etc. John French, Clk.

VERSAILLES, O.—This place is reported as makin arrangements for the construction of the proposed work and electric plant to cost \$25,000. J. W. Reser, Clk. MICHIGAN CITY, IND.—Bids are asked until June for constructing works for the Lake Michigan Water stated in our advertising columns. M. T. Krueger, S

DURAND, MICH.—W. H. Putnam, Clk., writes us that no details for the proposed works have been decided upon; estimated cost, \$30,000.

EAST JORDAN, MICH.—Bids are asked until July 10 or constructing works, as stated in our advertising col-

HARTFORD, MICH.—F. M. Deane, Clk., writes us that T. C. Brooks & Sons, Jackson, Mich., have been awarded the contract, at \$11,727, for building the works.

BARTONVILLE, ILL.-H. E. Beasley, Engr. Hospital or the Insane, is said to he preparing plans for works for the Insane, is at the hospital here KANKAKEE, ILL.—The Kankakee Water Supply Co., which recently secured control of the Kankakee Water-Works Co., will build filtration basins and make other

Improvements to the works, according to reports. W. G. Maxcy, Oshkosh, Wis., is interested.

Maxcy, Oshkosh, Wis., 18 interested.

KEWANEE, ILL.—Bids are asked until June 26 for furnishing and laying 3,240 ft. of 4 to 6-in. water pipe setting hydrants and valves, etc., for the improvement the works. F. F. Whiffen, Pres. Bd. Local Improvements

ting hydrants and valves, etc., for the water sipe set, the works. F. F. Whiffen, Pres. Bd. Local Improvements to VANDALIA, ILL.—J. R. Schulte, Mayor, wrices us that the contract will he let in July for about 11s sets of 6. In. water pipe and the necessary hydrants.

SUN PRAIRIE, WIS.—J. C. Fitch, Village cik, writes us that an election will be held June 26 to work on the question of issuing honds for works. Population, 1,000.

HUDSON, IA.—This place voted June 12 to same \$5,000 in honds for works. R. J. Nestor, Mayor.

MUSCATINE, IA.—Wm. Molis, Engr. and Sapt. Muscatine Water-Works Co., writes us that no improvements to the works are as yet contemplated, except the laying in about three months, of half a mile of pipe.

OSKALOOSA, IA.—D. C. Waggoner, Cy. Cik, writes us that the council has engaged G. L. McKibben, Van Wert, O., as consulting engineer to investigate the water question and to make plans if necessary.

PRINCETON, MINN.—W. I. Gray & Co., Sykes Bidg, Minnespolis, are reported to have been swarded the contract for constructing works and an elective plant at \$17,000.

GRAND FORKS, N. DAK.—Bids are asked until the

GRAND FORKS, N. DAK.—Bids are asked until July for furnishing a pumping engine of one, two or three nillion gallons capacity, according to reports. F. A.

minion gailous capacity, according to reputs F. A. Brown, Cy, Audr.

CLAYTON, MO.—It is stated that about all of the \$25.

Olo required for building the works has been subscribed and that the St. Louis County Water-Works Co will soon be organized. The water supply will be secured from the St. Louis works. L. G. McNair is interested.

MUSCOGEE, IND. TER.—B. M. Bent, Chicago, Ili. is reported to have submitted a proposition to the council to build works to cost about \$70,000. It is thought the work will be hegun in about 60 days.

CALGARY, N. W. TER.—Bids are asked until July 8 for the purchase of \$90,000 of 30-year 4% honds for constructing municipal works. Chas. McMillan, Cy. Treas.

## SEWERAGE.

WATERHURY, VT.—V. K. Nash, Worcester, Mass. has submitted a report for a system to cost about \$22,000 President Moody and City Clerk Colby may be addressed HUDSON, MASS.—Ralph E. Joslin, Dr. J. L. Harriman and D. W. Stratton are on the committee appointed to investigate the question of building a system to cost about \$150,000. A pumping station and sewage disposal beds will be required.

Deds will be required.

QUINCY, MASS.—Bids are ssked by the commissioners until June 26 for constructing 8,000 ft. of 18 to 8-in. pipe sewers. E. W. Branch, Engr.

WESTBORO, MASS.—Bids are asked by the sewer commissioners until July 10 for furnishing the material and for reconstructing a portion of the outfall sewer, as stated in our advertising columns. J. J. Van Valkenburg, Engr., South Framingham, Mass.

COHOES N. Y.—Bids are asked until July 5 for several control of the control

Engr., South Framingham, Mass.

COHOES, N. Y.—Bids are asked until July 5 for constructing section 2 of the system, as stated in our advertising columns. Ed. Hayes, Engr.; W. J. Elliot, Clk. ELMIRA, N. Y.—J. E. Rawlins, Cy. Engr., writes us that 3,480 ft. of 12-in. and 400 ft. of 15-in. pipe sewers will be hullt in College Ave. and Webster Place.

LAMESTOWN, N. Y.—A report has been submitted for

JAMESTOWN, N. Y.—A report has been submitted for new sewers to cost about \$60,000. Address Aldermen Johnson and Fenton. NEWBURG, N. Y.—Dwyer & Snger have been awarded the contract, at \$8,841, for huilding the Nort! St. sewer.

NEW YORK, N. Y.—Bilds are asked by Jas. Comr. of Sewers, 13 Park Row, until June 28, for structing sewers in six streets.

TROY, N. Y.—Bids are nsked until June 30 for contructing a 48-in. hrick sewer. E. O. Ross, Secy. Bd. EAST ORANGE, N. J.—Bids are asked until July 10 for constructing a storm water conduit or sewer in the Valley of Black Brook, East Orange, as described in our advertising columns. Stephen M. Long, Township Cik.

HACKENSACK, N. J.—Bids are asked until July 10 for constructing flat top and pipe sewers, as stated in our advertising columns. Jacob Bauer, Secy. Comn. CARMEL, PA.—The council, it is stated, is in favor of huilding a system.

SOMERSET, PA.—Bids are asked by the town council until July 12 for the construction of about five miles of sewers, as stated in our advertising columns. J. Watson Frease, 'Pres. James S. Haring, Engr. NEWPORT NEWS, VA.—Bids are asked until July 10 for constructing about 17,000 ft. of pipe sewers. J. A. Massie, Cy. Cik.

GAINESVILLE, FLA.—Jas. M. Graham writes us that everal citizens of this place have asked the council for franchise for a system.

BIRMINGHAM, ALA.—It is proposed to construct certain sewers, at a cost of \$4,000. F. C. Evans, Cy. Cik.

COLUMBUS, MISS.—Bids are asked until July 20 for constructing a system and water-works. J. L. Ludiow, Engr., Winston, N. C.

MEMPHIS, TENN.—A. T. Bell, Cy. Engr., writes us that the city will huild about 20 miles of 27 to 6-ln. pipe sewers this season; the work to he done by day labor.

CLEVELAND, O.—Bids are asked until July 13 for contructing sewers in two streets. W. P. Rice, Dir. Wks. DAYTON, O.—Bids are asked until June 27 for laying ewer connections and water pipe. R. H. Ferguson, Cy. Comptrolier.

EAST LIVERPOOL, O.—Bids have been asked for con-ructing sewers in district 2. F. H. Croxall, Secy. Comrs MARION, IND.—Bids are asked until July 4 for contructing sewers in two streets. C. G. Robbins, Cy. Clk.
NORTH VERNON, IND.—The council is reported to ave ordered plans for a system.
UNION CITY, IND.—Bids are asked until June 29 for onstructing a sewer. G. A. Rosenbush, Cy. Clk.
BATTLE CORPEK MICH.—The council is reported to

BATTLE CREEK, MICH.—The council is reported to ave voted to huild a sewer to cost about \$13,000.

MOLINE, ILL.—Local papers state that work will soon e hegun on the proposed main sewer, to cost about \$19,00. Address City Engineer Paddock.

PRINCETON, ILL.—Bids are asked by the city clerk until June 28 for constructing a main outlet sewer, with 29 brick manholes, etc. Alvord & Shields, Engrs, 127 Hartford Bidg., Chicago.

OSKALOOSA, IA.—D. C. Waggoner, Cy. Cik., writes us that G. L. McKibben, Van Wert, O., has been engaged to prepare plans for a system.

CHARLES CITY, IA.—W. S. Prouty, Mayor, writes us that the city expects to ask for bids at once for constructing about two miles of sewers. W. D. Lovell, Consult. Engr., Des Moines.

HUDSON, WIS.—M. Herrick, Cy. Clk., writes us that at the election in April this place voted against building a system. A report states that a petition la before the council to casil another election to vote on the question of issuing \$7,500 in bonds for a system.

tissuing \$4,000 in bonds for a system.
WAUWATOSA, WIS.—The county board of supersors, Milwaukee, have voted to accept the proposition of G. Steinhagen to Instali a sewage disposal plant at he county buildings here, to cost about \$14,000.
MINNEOTA, MINN.—Bida are asked until June 29 for anstructing sewers. M. B. Haynes, Engr., Mankato; H. Dahl, Pres. Council.

Dahl, Fres. Country, T. CLOUD, MINN.—Bids are asked until July 17 for structing about three miles of pipe sewers, to cost set, 400. S. S. Chute, Cy. Engr.; J. A. Martin, Cy.; O. F. Doyle, Chn. Com.

k; O. F. Doyle, Chn. Com.

SEATTLE, WASH.—Bids were received by the council the 21 for constructing the East Pine St. sewer, to cost part 38,500.—Bids will also aoon be asked to centruct the Queen Anne Hill district sewer, at a cost of out \$12,000.

about \$12,000.
WATSONVILLE, CAL.—E. F. Wyckoff, Pres. City
Council, writes us that this city voted June 10 to issue
\$40,000 in bonds for a system. The bonds will be sold
and the contract let as soon as possible, as it is wished
to complete the system before the wet weather opens.

WALLACE, IDAHO.—Bids are asked until July 10 for anstructing a system, to cost about \$18,000. J. C. Mc-larmid, Cy. Cik.

Diarmid, Cy. Cik.

STRATFORD, ONT.—W. F. Van Buskirk, Cy. Engr., writea us that plans and a repert for sewage disposal have been approved by the provincial board of health, Recommendations by consulting engineer have been sent to the council, but no action has yet been taken. There will be small aize settling tanks and filtera; estimated cost, \$21,000.

MONTREAL WEST, QUE.—This place voted June 10 to issue \$60,000 in honds for a system.

#### STREETS AND ROADS.

 $NORWOOD,\ MASS.-It$  is stated that the town has voted \$2,300 for the purchase of a stone crusher.

WINCHESTER, MASS.—Reports state that plans and specifications for building Highland Ave. extension are being prepared and that bids will ason be asked; eatimated cost, \$30,000.

CHESTER, CONN.—It is reported that the town has oted to macadamize about 2.100 ft. on Main St. BINGHAMTON, N. Y.—Bids are asked until July 3 for rick, or asphalt paving on Hawley St. S. D. Kane,

Cy. Clk.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works until June 29 for paving Curtiss St. from Broadway to William St. R. G. Parsons, Seey.

EAST AURORA, N. Y.—O. J. Gardner, Town Clk., informs us that an appropriation of \$31,000 has been voted, but that no work will be done this year. Geo. Holisted, Civil Engr.

FREDONIA, N. Y.—It is stated that James P. Morrissey, Engr., has been instructed to prepare plans and specifications for brick, asphalt or macadam pavement on Central Ave.

Central Ave.

MOUNT VERNON, N. Y.—Bids are asked until July
5 for the improvement of East Fourth St. from Union to
Columbus Ave. Edwin W. Fiske, Mayor.

NIAGARA FALLS, N. Y.—The following bids for paving on Pine Ave. were received June 9: Barber Asphait
Paving Co., \$51,495; American Contract Co., of Buffalo,
\$51.516; Henry P. Burgard, \$47,016.

ROME, N. Y.—Bids are asked by the common council
until July 3 for the construction of about 10,000 sq. yds.
of brick paving, as stated in our accretising columns.

LONG RRANCH N. J.—Press reports state that the LONG BRANCH, N. J.—Press reports state that the board of commissioners on June 15 passed a resolution giving the Barber Asphalt Paving Co. a ten-year contract to repair three miles of street, at an annual cost of \$5,000.

of \$5,000.

JERSEY CITY, N. J.—Bids are asked until June 27 for the construction of about 6,500 yds. of asphalt and about 10,000 yds. of Belgian paving. G. T. Bouton, Cy. Cik.

BETHLEHEM, P.A.—It is reported that the contract for reconstructing and improving the public highway between Bethlehem and Nazareth, a distance of eight miles, has been let to the Delaware River Quarry & Construction Co. cf Jersey City, at about \$40,000.

LATROBE, PA.—Bids are asked until June 28 for brick paving in North Ligonier St. from the Pennsylvania R. R. north to the Borough line. L. W. Fogg. Engr.

PHILADELPHIA, PA.—Reports state that the park

paving in North Ligonier St. from the Pennsylvania R. R. north to the Borough line. L. W. Fogg, Engr. PHILADELPHIA, PA.—Reports state that the park commissioners have recommended the appropriation of \$25.000 for completing the macadamizing of Lincoin Ave. from Wissahickon Ave. to Johnson St.

WILKESBARRE, PA.—Bids are asked until June 24 for taking up the chestnut block navement and replacing same with brick on six streets. Frank Dietrick, Cy. Cik. MILFORD, DEL.—Theo, Townsend, Cik. Council, writes us that the town will pave one street with fire brick and grade two others, in July and August. T. C. Hatton, Consult. Engr., Wilmington.

BALTIMORE, MD.—Reports state that ordinances have been introduced for repaving to cost \$500,000.

NEW ORLEANS, LA.—Bids are asked until June 26 for asphalt and Belgian block paving in five streets. W. S. Douglass, Comptroller.

RHEA SPRINGS, TENN.—Bida are asked by the Road Committee of Rhea county until June 24 for building a turnpike road. J. C. Wasson, Chn.

CHILLICOTHE, O.—Bids are asked until July 5 for paving with brick and asphalt, as stated in our advertising columns. H. M. Redd, Cy. Engr.

DAYTON, O.—Bids are asked until July 13 for the construction of about \$0,000 sq. yds. of block or asphalt pavement. Robt. H. Ferguson, Comptroller.

LIMA, O.—Bids are asked until July 14 for about 6,700 sq. yds. of paving. C. E. Lynch, Cy. Cik.

MANSFIELD, O.—Bids are asked until July 8 for the improvement of two streets. F. M. Remy, Cy. C. k.

TOLEDO, O.—Bids are asked until July 17 for block paving in Orange and Rosalind Sts. and in Melrose Ave.

r-

to

TOLEPO. O.—Bids are asked until July 17 for block paving in Orange and Rosalind Sts. and in Melrose Ave. Wm. O. Holst, Cy. Clk.

YOUNGSTOWN, O.—Bids are asked by the city com-missioners until July 8 for paving Spring St. from Wick Ave. to Holmes St. C. E. Cross, Clk.

Ave. to Holmes St. C. E. Cross, CHK.

EVANSVILLE, IND.—Reports state that the board of
public works has ordered City Engineer Saunders to
prepare plans and specifications for improving nine
streets; eatimated cost, about \$80,000.

INDIANAPOLIS, IND.—Bids are asked by the department of public works until June 26 for paving in nine
streets with aspbalt and wooden block pavement. M. A.
Downing, Chn.

MARION, IND.—Bids are asked until July 4 for brick paving in Second St. and in Delphi Ave. C. G. Rob-bina, Cy. Cik.

ROCKVILLE, IND.—Bids are asked by the commissioners of Parke county until July 6 for the improvement of six roads in Jackson township. S. A. Pike, Audr. SCOTTSBURG, IND.—It is stated that the contract for building 15 miles of macadamized road in Jennings township has been awarded to Thomas Carlisle and Charles E. Close, at \$16,170.

SOUTH BEND, IND.—Bids are asked until July 10 for paving with cement the aldewalks in six atreets. L. A. Hull, Cy. Clk.

Hull, Cy. Clk.

SULLIVAN, IND.—Press reports state that S. P. Bennett, Parls, Ill., has been awarded the contract for constructing 17½ miles of roads in Gill township, at \$53,200.

VEEDERSBURG, IND.—Bids are asked until June 28 for brick paving ou Second and Main Sts. I. J. Walker, Town Clk.

YEIKNON, IND.—Bids are asked until June 27 for the construction of about 11½ miles of pike road in Campbell township and until June 28 for the construction of about eight miles of pike road in Jennings township. James itenie, Audr. Jennings County.

WASHINGTON, IND.—Phit. Hart, Cy. Cik., writes us that the city has voted against issuing bonds.

DETROIT, MiCH.—Blds are asked until June 23 for the improvement of Joseph Campau Ave., and until June 24 for the construction of about 20,600 sq. yds. of cedar and brick paving. D. W. H. Moreland, Pres. Bd.

CAIRO, iLL.—It is stated that the paving of Ohio Leve St. is heing considered.

MADISON, WIS.—Bids are asked until July 1 for improving several streets, according to reports. O. S. Norsman, Cy. Cik.

Norsman, Cy. Cik.

ST. PAUL, MINN.—In our issue of June 1 we referred to bids received for asphalt paving, which should have een for brick; the contract for brick paving in Seventh it. being let to Fielding & Shepley, at \$18,500.

WINONA, MINN.—Paul Kemp, Cy. Cik., writes us that it is proposed to pave 2,611 sq. yds., at a cost of \$3,510.

DENVER, COLO.—Bids are asked by the board of public works until June 27 for paving in District No. 1. Wm. H. Taylor, Secy.

H. Taylor, Secy.

RATHDRUM, IDAHD.—Bids are asked by the county commissioners until July 10 for building the Santa Mountain Road. John C. Callahan, Clk. of Bd.

OTTAWA, ONT.—Press reports state that Ayers & Moneyhun have been awarded a contract, at \$8,571, for constructing gravel road between Madison and Hamilton.

ST. MARY'S, ONT.—Bids are asked until June 26 for constructing about 6,000 sq. ft. of granolithic sidewalks. L. Hartshorne, Town Clk.

HAMBURG, GERMANY.—Press reports state that the city proposes to construct cycling paths throughout, at a cost of 243,000 marks.

## MANUFACTURING PLANTS.

MILTON, VT.—McCaghey & Linehan, Glen Fails, N. Y., are reported to have been awarded the contract for erecting an addition to the new pulp mill of the International Paper Co., at Milton, to cost about \$60,000.

MONACA, PA.—The Phoenix Glass Co. is said to con-template the erection of a new 12-pot furnace and eight new decorating kilns.

new decorating kilns.

PHILADELPHIA, PA.—Bids are being received, according to reports, for erecting a textile factory building, 54 × 130 ft., for Thomas Halton's Sons, at C St. and Allegheny Ave.—The 4-story building of the Phoenix Paint & Brush Co., at 218 North 2d St., was destroyed by fire June 18; loss, \$60,000.

LYNCHBURG, VA.—It is reported that the Lynchburg Cotton Mili Co. is receiving bids for the erection of a new building.

new building.

NEWBERRY, S. C.—James McIntosh, L. W. Floyd and others, of Newberry, contemplate the erection of a new cotton mill in this city with a capacity of 10,000 spindles.

ENSLEY, ALA.—The Tennessee Coai, Iron & R. R. Co. ia said to be receiving estimates for the construction of a fifth furnace at Ensley.

CHATTANOOGA, TENN.—Press reports of June 17 state that S. M. Bourne and S. Coolidge, who represent the Stark Cotton Mill Co., are in town accompanied by officials of the Southern Ry. Co. looking for a site on which to erect a mill having 40,000 spindles; estimated cost of all buildings, etc., \$1,500,000.

BRYAN, TEX.—It is reported that a new press and a new engine will be installed in the oil mili at this place, increasing the capacity to 75 tons of seeda a day.

## GAS PLANTS.

MADISON, IND.—Press reports state that the Chicago Pipe Line Co. has let the contract for the erection of a new \$200,000 pumping station at Howell Corner, Liberty township, Grant county.

townsap, Grant county.

MARINE CITY, MICH.—Reports state that the council has granted a franchise for the operation of a plant to J. T. Lynn, F. D. Jenks and A. D. Bennett, and the construction will be commenced immediately.

MASON CITY, IA.—It is stated that the Mason City Electric Co. is about to construct a gas plant. L. J. Fitch, Secy. and Treas.

VANCOUVER, B. C.—It is reported that the Vancouver Gas Co. has definitely decided to extend its manufacturing and distributing plants this season; estimated cost of improvements, \$100,000.

LAMP POSTS.—Washington, D. C.—Bids are asked by the district commissioners until June 24 for furnishing 300 cast-iron iamp posts.

BOILERS.—Columbus, O.—Bids are asked until July 3 for three horizontal tubular boilers. Otis K. Ellis, Supt. Bd. of Infirmary Directors.

Bd. of Infirmary Directors.

AUXILIARY VESSELS.—Washington, D. C.—Bids are asked by the navy department until July 19 for the purchase of six vessels used in the war with Spain.

REBUILDING MONUMENT.—Springfield, III.—Bids are asked until June 26 for taking down and reconstructing the Lincoln Monument. Samuel A. Bullard, Arch.

DREDGING.—Bosten, Mass.—Bids are asked until July 21 for dredging in Plymouth Harbor, as stated in our advertising columns. Col. Chas. R. Suter, U. S. Engrs.

DRY DOCK.—Washington, D. C.—Bids are asked by the navy department until Aug. 5 for the construction of timber dry dock at Lesgue Island navy yard, Philadelphia, Pa.

BREAKWATER.—Mexico, Mex.—It is reported that he government has let the contract for harbor work at hananillo to Win. K. Smoot, Washington, D. C., at about \$6,000,000

DRAINAGE DITCH.—Wapskonets, O.—Bids are asked until June 24 for the construction of four ditches with a total excavation of about 15,550 cu. yds. Samuel Craig, Engr.

DREDGING.—Norfolk, Va.—Bids are asked until July 1 for dredging and bank protection in waterway from lorfelk, Va., to Sounds of North Carolina. Major Thos. Casey, U. S. Engrs.

21 for dreaging and bank protection in waterway from Norfelk, Va., to Sounds of North Carolina. Major Thos. L. Casey, U. S. Engrs.

DREDGING.—New York, N. Y.—Bids are asked until July 19 for dredging in Bay Ridge and Red Hook channels, ss stated in our advertising columns. Major il. M. Adams, U. S. Engrs.

SNAGBOAT AND HULL.—Little Rock, Ark.—Bids are asked until July 15 for furnishing one steel snagbost and one steel hull, as stated in our advertising columns. Lieut. Robert MeGregor, U. S. Engrs.

PORTLAND CEMENT.—Mobile, Aia.—Bids are asked until July 20 for furnishing and delivering hydraulic Portland eement, gravel and sand, at McGrew's Shoal, Aia., as stated in our advertising columns. Major Wm. T. Rossell, U. S. Engrs.

SWAMP DRAINAGE.—Newark, N. J.—Bids are asked by the board of street and water commissioners until July 20 for draining the swamp or meadow lands lying within the Ninth, Tenth and Twelfth wards, as stated in our advertising columns. Wm. E. Greathead, Clk. Bd.

DAM, ROADWAY AND BEAR PIT.—Indianapolis, Ind.—The following bids were received June 9 for the construction of the dam in White River, a roadway from the dam to 30th St. and a hear bit: White River Sand Co., roadway, \$51,000; Riverside Construction Co., dam and roadway complete, \$83,550; Koss & Fritz, dam, stratified stone, \$50,742; colitic, \$54,393; colitic, with stratified stone, \$50,742; colitic, \$64,600; Park Construction Co., dam, \$41,500; readway, \$52

were: H. W. Tielking, \$2,535; T. Itoch, \$2,500; Koss & Fritz, \$1,428.

WASHINGTON, D. C.—Col. Chas. J. Alien, U. S. Engrs., in a report approved by the Chief of Englineers and the Secretary of War, has recommended that of the \$100,-000 appropriated by Congress for the improvement of the Potomac River, \$74,000 he, aliotied for improving by dredging and back-filling in front of the city near the Long Bridge, and \$23,000 for dredging the river below. In front of the city the Georgetown channel is to be dredged to 20 ft. at low tide, and the fiats on the Virginia side filled. The estimated cost of the improvement, including the construction of a tidal reservoir with gates, the construction of a sea wall in front of the city and the filling in of about 400 acres between the wall, was \$2,953,920; appropriations up to date have been \$2,285,000. On the lower river the project is for a channel 200 ft. wide and 24 ft. deep at low tide. To effect this dredging will have to be done at the following points: Kettle Bottom Shoals, estimated cost, \$1,329; Maryland Point Shoal, \$30,175; Smith Point Shoals, \$33,000; Mattawoman Shoal, \$30,175; Smith Point Shoals, \$33,000; Mattawoman Shoal, \$30,585; total, \$158,000.

## CONTRACT PRICES.

EXCAVATION AND MASONITY—Boston, Mass.—The Metropolitan Water Board, Boston, received the following bida June 15, 1899, for preliminary excavation and masonry for the Wachusett dam; bid of Busch Bros. accepted:

		-Excav	ration-	Stone	
		Earth,	Roek,	masonry	
	Bidder.	13,000	4,000	1,000	
		cu.yds.	cu.yds.	cu.yda.	Totai.
	Busch Bros, Buffalo		\$0.98	\$6.25	\$12,770
	Brodhead Con. Co., Easto		1.00	6.40	14,300
	Long & Little, Leominates	26	1.45	5.50	14,680
	Murphy & Co., Clinton, Ma		1.25	9.00	18,290
	Moulton & O'Mahoney, Bor	stn .22	2.00	8.00	18,860
	A. M. Banker, Gloversvil	le30	2.25	6.50	19,400
	C. N. Taylor, Clinton, Ma		2.20	7.50	21.500
	Ross & Fowler, Boston	35	2.75	8.00	23,550
	Rowe & Hall, Boston		2.20	8.00	24,600
	Merryman & McNlece, N.	Y35	2.00	13.50	26,050
	D. Cuozzo, Brooklyn	70	3.50	7.75	30,850

DRAINAGE OF POND.—Stoneham, Mass.—The Metro-politan Water Board received the following hids June 6 for the drainage of Spot Pond, Stoneham, as advertised in Engineering News, and the contract was awarded C. E. Trumbuil & Co.:

Bida Received at Boston, Mass., June 6, 1899, for Draining Spot Pond, Stoneham.

	1	C. E.		M. Russo,		Mirick & Went-	Richard	H. A. Hans- com &
Quantities.		11 & Co.,	Bacon,	& Co.,	Salamone		Faivey,	Co.,
		oston.	Boston.	Boston.	E. Boston.	Malden.	Somerv'le.	Boston.
Earth excavation for conduit9.500 cu	. yds.	\$0.60	\$0.55	\$0.60	\$0.74	\$0.66	\$0.75	\$0.75
Earth excavation for open channel5,000 "	**	.50	.28	.50	.74	.36	.75	.90
Borrowed carta	49	.40	.28	.50	.40	.36	. 40	.40
ROCK excavation		2.50	4.90	4.00	3.95	5.00	5.00	4.50
Masonry: Portland cem. concrete 560 "		7.50	8.90	7.00	8.50	8.50	9.50	7.50
	61	14.00	17.50	16.00	20.00	16.00	18.00	14.00
Laying pipe: 30-in. cast-iron2,400 lin	. ft	.88	1.00	1.70	.85	.95	.75	1.00
24-in, and 12-in., cast-iron 350 "	9.6	60	.60	1.00	.85	1.50	.75	1.00
And furnishing, 24-in. vitrified1,600 "	4.0	1.06	1.50		.80	1.90	1.25	1.50
Stone paving	. yds.	1.00	.50	.40	.65	1.30	.80	.80
Spruce lumber in foundations 40 M.	ft	35.00	40.00	28.00	40.00	45.00	40.00	40.00
. Total	\$	22,508	\$22,945	\$24,120	\$25,593	\$27.087	\$27.518	\$27.825

# MISCELLANEOUS CONTRACTS.

SHAFT.—Pottsville, Pa.—A shaft 900 ft. deep will be sunk at the Lincoln colliery, near here, according to reports.

CRUISERS.—Wasbington, D. C.—Bids are asked by the navy department until Oct. 2 for constructing six protected cruisers.

FIRE BELL, ETC.—Hoboken, N. J.—Bids are asked until June 27 for the purchase of fire tower and bell. John F. Keating, Clk.

ROAD WORK, ETC.—West Boylston and Sterling, Maas.—The Metropolitan Water Board, Boaton, awarded the following contract May 31, 1889, to Peter J. O'Malley, Waitbam, Mass., for excavating soil and for building a road in West Boylston and Sterling, as advertised in Engineering News: Earth excavation, 30,000 cu, yds., 244, cts.: rock excavation, 2,000 yds., \$1.25; alope paving, 2,000 yds., 90 cts.; rubble masonry laid dry, 10 yds., \$4.00; splitstone masonry, laid in mortar, 100 yds., \$4.00; aplitation masonry laid in mortar, 60 yds., \$20.00; laying 5-in. pipe for side drains, 1,000 lin. ft., 15 cts.; 12-in.,

for culverts, 40 ft., 25 cts.; 15-in., for culverts, 45 ft., 25 cts.; 24-in., for culverts, 82 ft., 25 cts.; overhaul, equivalent to 351,000 cu. yds. hauled 100 ft., 0.9 ct.; total, \$17.841.

SEWERAGE SYSTEM.—New Brighton, Pa.—We are informed that the following bids were received June 8 for constructing a sewerage system, as advertised in Engineering News; contract awarded the Wagner Water Supply Co.; L. E. Chapin, Consult. Engr., Canton, O.:

DREDGING.—Cleveland, O.—We are informed that the following bids were received June 9, 1899, by Col. J. A. Smith, U. S. Engr., for dredging in Cleveland Harbor, as advertised in Engineering News: The Buffalo Dredging Co., Buffalo, N. Y., 14.5 cts; James Rooney, Toledo, O., 12.75 cts.; The L. P. & J. A. Smith Co., Cleveland, O., 12.875 cts.; W. A. McGillis Co., Cleveland, O., 11.95 cts., recommended for acceptance; Carkin, Stickney & Cram, Detroit, Mich., \$16 cts.; G. H. Breymann & Bros., Toledo, O., 13 cts.

Bids Received at New Brighton, Pa., June 8, 1899, for Constructing a Sewerage System.

Items.	Vetter & Heasley,		Albert M. Banker, Glovers-	Cona Accetta,	Green- ville Const'n Co.,	Wagner Water Supply Co.,	Chas. Rosser & Co.,	C. I. Horrold Beaver
Sewer pipe, laid complete:	Youngs-	Orange,	ville,	Plttsb'g,	Green-	Dayton,	Beliaire,	Falls,
	town, O.	N. J.	N. Y.	Pa.	ville, O.	0.	0.	Pa.
6-ln., a lin. ft	\$0.40	\$0.30	\$0.55	\$0.44%	\$0.30	\$0.29	\$0.28	\$0.45
O-111.,		.48	.56	.47	.36	.33	.66	.52
10-111.	.55	.45	.62	.52	.40	.42	.58	.60
Ad"III.,	.71	.65	.66	.62	.75	.53	.85	.65
10-111.,	.58	.71	.84	1.09	.78	.55	.53	.85
10-111.	.98	1.03	.95	1.05	1.32	.87	1.28	.95
Drain tile laid complete: 6-in., a lin ft.		.18	.06	.24	.05	.10	.06	.09
8-ln., a lin. ft	.26	.21	.08	.29	.08	.12	.10	.12
10-ln., " "		.25	.11	.35	.12	.15	.14	.15
16°111	.40	.30	.13	.38	.15	.20	.14	.25
Manholes built, a lin. ft	3.25	3.25	2.50	2.65	3.00	3.40	3.00	3,40
Flusbtanks built, each	40.00	47.00	40.00	60.00	30.00	37.00	33.00	35,00
Rock excavation, a cu. yd	1.00	2.00	1.25	2.14	2.50	2.00	1.75	2.50
Extra earth excavation, per cu. yd	.40	.50	.50	.45	.40	.60	.40	.30
Concrete per cu. yd	3.50	4.00	5.00	6.70	4.00	4.00	4.50	4.25
Plank, a M. ft., B. M		20.00	25.00	18.50	25.00	22.00	14.00	20.00
Total	\$54,939	\$53,149	\$54,682	\$54,421	\$43,999	\$40,755	\$63,236	\$54,510

BRICK PAVING.—Cbampaign, Ill.—The following bids were received June 13, 1899, for paving University Ave., from Neil St. to New St.; 1—J. W. Stipes, Champaign, Ill.; 2—G. Maffioli, Rockford, Ill.; 3—Crews, Lougb & Allison, Arcola, Ill.; 4—Norton & Gilmore, Terre Haute, Ind.; 5—Foster & Co., Attica, Ind.; W. T. Tarrant, Cy. Engr.:

4.0 ft. diam. } 14 each.. { 3.25 3.50 4.00 4.50 3.00 4.0 ft. diam. }

\*On 6-in. broken stone concrete. †On 6-in. gravel concrete. §Average cut, 3 ft.

The bids for paving University Ave, from New St. to Prospect Ave., were the same, Norton & Gilmore alone not bidding. The quantities were as follows: Excavation, 1,800 cu, yds.; concrete curb and gutter, 2,120 yds.; paving, 3,650 yds.; 10-in. drain, 200 ft.; catchbasins, 4.

ASPHALT PAVING.—New Orleans, La.—The General Asphalt Co. bas been awarded the contract for asphalt paving in Chartres St., from Canal to St. Louis St., at \$2.22 a sq. yd. The Barber Asphalt Paving Co. bas the contract for paving Chartres St., from St. Louis to St. Ann St., at \$2.20.

St., at \$2.26.

DREDGING.—New Bedford, Mass.—The following blds were received June 8, 1859, by Maj. D. W. Lockwood, U. S. Engr., for dredging in New Bedford Harbor, as advertised in Engineering News: Draw Channels—The International Contracting Co. (Wm. H. Sayre, Jr., Mgr.), New York, 18% cts. a cu. yd.; The Hartford Dredging Co., Hartford, Conn., 19 cts.; Cole Bros., Fall River, Mass., 17% cts. Anchorage Area—The International Contracting Co., New York, 17 cts.; Cole Bros., Fall River, Mass., 17½ cts.; Hartford Dredging Co., Hartford, 16 cts.

WALLS AND EMBANKMENTS.—Sfoneham, Mass.—The

WALLS AND EMBANKMENTS.—Stoneham, Mass.—The Metropolitan Water Board, Boston, received the following hids June 15 for the masonry core walls and earth embankments for dams at Spot Pond, Stoneham; the contract was awarded the Brodhead Contracting Co.:

BRICK PAVING.—White Plains, N. Y.—The contract for 8,860 yds. of brick paving on 6-in. concrete foundation, and 4,065 lin. ft. of curbing, has been let to McCabe & Duffy, White Plains, st \$2.18 for Porfer repressed brick, and at 52½ cts. for curbing.

and at 52% cts. for curbing.

REPAIRING PIER.—Holland, Mich.—We are informed that the following bids were received June 9 by Capt. Chester Harding, U. S. Engr., Grand Rapids, Mich., for repaying the government pier at Black Lake, Holland, Mich., as advertised in Engineering News:

450 ft., 33 cts.; 15-ln., 530 ft., 43 cts.; catchbasins, 7 \$14 each; manboles, 3, \$22 each; inlets, 6, \$3 each; cement curb, 1,680 ft., 29 cts.; retaining curb, 200 ft., 20 cts.; cement filler—C., 5,882, 7 cts., 7,505, 9 cts. far filler, 6,387, 9 cts.; gutter plates, 1,000 lbs., 2 cts. brick paving, concrete foundation, including grading, Trimble, 6,287 material prices—gravel and rand, each 40 cts on street; sq. yds., \$1.ll); extra gravel, 25 cts.; extra concrete, \$23 material prices—gravel and rand, each 40 cts on street; abbl.; brick, 63 cts. a yd.

REPAIRING PIER.—Muskegon, and Grand Haven, Mich.—We are informed that the following lowest bid was received June 10, 1839, for repairing government piers at Grand Haven from Green & Wenzell, Green Bay Willer, furnishing and securing in place, white each will be grand that the following lowest bid was received June 10, 1839, for repairing government piers at Grand Haven from Green & Wenzell, Green Bay Willer, furnishing and securing in place, white each will be grand that the following lowest bid was received June 10, 1839, for repairing government piers at 11,680 ft., B. M., \$40 per M. ft.; white pine, 194,660 ft., \$25; white pin plank and decking, 5,472 ft. \$20; for or steel drift bolts, 17,500 lbs., 3 cts. a lb.; sorew bolts, 3,299 lbs., 336 cts.; it er ods, 13,310 lbs., 334 cts.; sorew bolts, 6,007 lbs., 3 cts.; carriage bolts, 4,707 lbs., 334 cts.; tie rods, 8,132 lbs., 5,241 bls., 6,483 lbs., 3 cts.; stone pier, 39 and 49, 80 cords, \$41, new stone plank and decking, 2,736 ft, \$20; drift bolts, 6,483 lbs., 3 cts.; stone pier, 39 and 49, 80 cords, \$41, we stone plank and decking, 5,607 lbs., 3 cts.; carriage bolts, 6,007 lbs., 3 cts.; carriage bolts, 6

total, \$10,618.

MACADAM ROAD.—Monmouth, fil.—The following contract has been let to Brodin & Dungan, Monmouth, for building a combined brick and macadam road: Brick, 3.111 sq.yds., 70 cts. a cq. yd.; saud, 475 short tons, 70 ets. a ton; crushed stone, 388 tons; \$1.40; broken pottery ("chuck"), 388 tons, 35 cts; stakes, 2×2×18 ins. 1.750, 84 a 100; pine lumber, 3½ M. ft., \$20 a M. ft. The estimated quantities are for 3,500 lin. ft. by 13 ft. wide, with 8 ft. of brick and 2½ ft. of macadam on each side; the cost is 55 cts. a lin. ft., grading not included. J. E. Miller, Cy. Engr.

BRICK PAVING.—La Salle, Ill.—W.F. McNamara writes us that the contract for 38,000 yds. of brick paving has been let to Berry & Welch, of Iowa City, Ia., at \$1.14 a yd

Bids Received at Holiand, Mich., June 9, 1899, for Repa	iring Governm	nent Pier at	Black Lake	е.
	Nelson J.	Adolph	Robert	Smith &
0	Gaylord,	Green,	Love,	Neison.
Quantities.	Ludington,		Muskegon,	Muskegor
	Mich.	Wis.	Micb.	Mich.
Cut down and remove old work 407 lin. ft	\$1.50	\$1.25	\$1.50	\$1.50
Material, furnished by government, in place 5,280 ft. B.M.	5.00	5.00	5.00	4.00
Furnished and in place: White oak round plies 11,654 lin. ft	.35	.33	.30	90
White oak timber 15,200 ft. B.M.	38.00	38.00	32.00	37.00
White pine timber	24.00	25.00	24.00	25.00
White pine plank for sheet piles342,324 "	84.00	33.00	29.50	36.00
White pine plank for decking 18,384 " "	20.00	20.00	18.00	20.00
Iron or steel drift bolts 11,269 lbs	.031/4	.03	.03	.03
" screw bolts 14,155 "	.031/4	.031/4	.03	.03
" carriage bolts 9,140 "	.031/4	.031/2	.031/4	.03
" tie rods 19,020 "	.031/4	.031/2	.03	.03
" spikes 2,059 "	.031/4	.03	.03	.03
Stone 400 cords	6.00	6.65	7.00	7.00
Stone, as per paragraph 67 of specification 300 "	4.00	6.25	3.00	5.00
Total	\$26,249	\$26,727	\$24,004	\$27,550

ASPHALT PAVING.—Camden, N.J.—We are informed by B. II. Shivers, Clk. Highway Dept., that the following contracts have been let to the Vulcanite Paving Co., Philadelphia, for asphalt paving, (1) being for grading concrete foundation and paving with asphalt, 10-year guarantee; (2) new 24-in. crossing stone; (3) new 16-in. crossing stone; (4) new curbstone, a lin. ft.; (5) new gutter stone, a lin. ft.; (6) circular curb, a lin. ft.; (7) repaving, including gutters and crossing; (8) resetting curb and repair of sidewalk; (9) resetting gutter stone, Fifth St., from Bridge Ave. to Chestnut St., and Newton Ave., from Kaighn Ave. to Broadway, (1) \$253; (2) \$1.03; (3) \$5 cts.; (4) 55 cts.; (5) 40 cts.; (6) \$1.40; (7) 27 cts.; (8) 21 cts. a lin. ft.; (9) 16 cts. a lin. ft. Delaware Ave.,

BREAKWATER AND DREDGING.—Newport, R. 1.—
Maj. D. W. Lockwood, U. S. Engr., Newport, received the following bids June 15, 1849, for dredging, etc.: Breakwater construction at Sakonnet Point, R. 1.—E. S. Beiden, Hartford, Conn., \$1.19 a ton of 2,000 lbs.; William Beattle, Fall River, Mass., \$1.69. Dredging Fall River Harbor, Mass.—J. P. Rsnderson, Albany, N. Y., 14½ cts a cu, yd.; F. H. Brainard, New York, 9½ cts.; P. Sanford Ross, (Inc.), Jersey City, N. J., 9 cts. Jetty construction at Nan-tucket, Mass.—E. S. Beiden, \$1.47 a long ton. Dredging Taunton River, Mass.—Cole Bros., Fall River, Mass., 68 cts. a cu, yd.; J. P. Randerson, 90½ cts. Dredging and removing bowlders at Wood's Hole Harbor, Mass.—W. H. Beard Dredging Co., New York, \$3.50 a cu, yd.; Chas. W. Johnson, Lewes, Del., \$4.95; R. G. Packard Co., New York, \$2.23; Cole Bros., \$3.15.

Bids Received at Boston, Mass., June 15, 1899, for Dams at Spot Pond, Stonebam.

					sonry-	Ing of	
	-Excav		Borrowed			Portland	
Bidder.	Earth, 7.600	Rock,	earth, 6,000	hydr'lic,	Portland, 1.650	2.400	
	cu.yds.	cu.yds.	cu.yds.	cu.yds.	cu.yds.	sq.yds.	Total.
Brodbead Contracting Co., Easton, Pa	\$0.45	\$1,50	\$0.30	\$5.50	\$6.85	\$0.40	<b>\$23,033</b>
J. Driscoll & Son, Brookline, Mass		3.00	.30	5.00	7.10	.75	24,815
C. E. Trumbuil & Co., Boston		3.75	.40	5.00	7.00	.50	24,950
Merryman & McNiece, New York		5.00	.40	5.00	6.00	.50	25,700
D. Cuozzo, Brooklyn, N. Y.		4.00	.30	5.25	7.40	.30	26,755
Richard Falvey, Somerville, Mass		4.00	.50	5.00	7.00	.40	26,930
Frank L. Allen, Worcester, Mass		5.00	.42	5.00	7.00	.70	27,570
M. Russo & Co., Boston,		3.50	.50	6.00	8.00	.50	28,760
Harris & Letteney, Boston.		2.60	.65	6.34	7.39	.60	29,068
The United Co., New York, N. Y		3.75	.38	5.75	8.35	.65	29,081
Chas. N. Taylor, Clinton, Mass		5.00	.40	5.00	7.50	.50	30,075
Mirick & Wentworth, Malden, Mass		6.00	.44	5.30	7.30	.77	30,239
H. A. Hanscom & Co., Boston.		5.00	.50	6.50	7.75	.50	32,058

BREAKWATER.—Conneaut Harbor, O.—Col. Jared A. Smith, U. S. Engr., Cleveiand, O., received the following bids June 12 for constructing portion west breakwater, 216 ft. long, at Conneaut Harbor, O., as advertised in Engineering News; A.—The L. P. & J. A. Smith Co., Cleveland; B.—Jas. B. Donnelly, Buffalo (accepted); C.—E. J. Hingston, Buffalo, N. Y.; D.—J. J. Churchyard, Buffalo, N. Y.; C. D.

	Α.	В.	C.	D.
Dredging, a cu. yd	\$0.40	\$0.30	\$0.60	\$0.40
Hemlock, a M. ft	21.00	17.00	20.00	20.00
White pine, a M. ft	36.00	27.00	30.00	29.50
White oak, a M. ft	45.00	42.00	32.00	60.00
Filling stone, a cord	1.60	1.18	1.00	1.20
Heavy rip-rap, a yd	2.00	1.70	1.75	1.50
Iron rods, a lb	.04	.03	.04	.04
Drift bolts, a lb	.04	.03	.03	.04
Screw bolts and washers	.04	.04	.04	.04
Lag screws, a lb	.04	.04	.05	.04
Spikes, a lb	.05	.04	.04	.04
Iron strap plates, a lb.	.04	.04	.05	.04
			-	

Total ......\$29,443 \$23,404 \$24,101 \$25,952

The contract for constructing a breakwater at Fairport Harbor, O., has been awarded to J. B. Donnelly, Buffalo, at the same figures as for the Conneaut Harbor work, except that stone filling is at \$1.16, and brush mattresses 50 cts. a yd; total, \$24,429.

50 cts. a yd: total, \$24,429.

BRICK PAVING.—Ann Arbor, Mich.—Geo. F. Key, Cy. Engr., informs us that the following contract was let June 1, 1859, to Wm. J. Clancy, Ann Arbor, for brick paving, as advertised in Engineering News: Brick, 5,250 sq. yds., sand cushion, 5,250 sq. yds., 4 cts.; filer, 5,250 sq. yds., 17 cts.; curb stone, 3,225 sq. ft., 60 cts.; excavation, 12 ins. below finished grade, 1,750 cu, yds., 32 cts.; concrete, 875 cu, yds., \$2.90; gravel, trenching, under 6 ft. deep, 150 lin.ft., 30 cts.; 12-in. plpe, 150 lin.ft., 28 cts., 4 inlets, each, \$15; manhole, \$40; catchbasin, \$40; total, \$11,882.

from State to Wood St., (1) \$2.54; all other bids the same as above. 3d St., Market to Federal St., (1) \$2.53; all other bids the same as above.—Bids were received as follows for asphalt paving in several other streets, the contracts not being let up to June 12: W. S. P. Shlelds, Philadelphia, Arch St., (1) \$2.58; (2) 75 cts.; (3) 50 cts.; (4) 55 cts.; (5) 40 cts.; (6) \$1.35; (7) 25 cts.; (3) 50 cts.; (9) 5 cts. (6th St., (1) \$2.43; all other bids as above. State St., (1) \$2.48; all other bids as above. Vulcanite Paving Co., 6th St. and State St., (1) \$2.51; all other bids the same as first bids. Pennsylvania Asphalt Co., Philadelphia, 6th St. and State St., (1) \$2.57; (2) \$1.08; (3) \$5 cts.; (4) 58 cts.; (5) 40 cts.; (6) \$1.43; (7) 25 cts.; (8) 20 cts.; (9) 16 cts.

IMPROVING HARBOR.—Chicago, III.—Maj. W. L. Marshall, U. S. Engr., received the following bids June 15 for dredging and for other work in Chicago Harbor, as advertised in Engineering News:

# INDUSTRIAL NOTES.

THE DICKSON MFG. Co., Scranton, Pa., is said to have secured a contract from the Turkish government for six dynamite guns.

dynamite guns.

THE BIGNALL & KELLER MFG. CO., Edwardsville, Ill., is reported to have shipped a quantity of pipe treading machines to Stockholm, Sweden.

THE ALCO-VAPOR LAUNCH CO., Jersey City, N. J., has been awarded the contract by the Treasury Department, Washington, D. C., for a 35-ft, revenue cutter.

THE E. P. ALLIS CO., Milwaukee, Wis., bas the contract for a blowing engine weighing about 350 tons, for the Sulin Iron & Steel Co., Sulin, Russia, according to reports.

reports.

THE PECKHAM MOTOR TRUCK & WHEEL CO., Kingston, N. Y., is reported to bave shipped a complete shop tool equipment plant to the Odawara Electric Ry. Co., Odawara, Japan. The equipment includes a 150-ton hydraulic press, a 20-in. stroke shaper, lathes, pneumatic hoists, etc.

G. P. NICHOLS & BRO., 1325 Monadnock Bidg., Chicago, selling agents for Pawling & Harnischfeger, have just received orders from the Chicago & North Western R. R. for one 50-ton and one 30-ton double trolley, overhead electric, traveling cranes, and one 5-ton single trolley crane for its new sbops at 42d St.

THE MARION STEAM SHOVEL CO., of Marion, O.

crane for its new sbops at 42d St.

THE MARION STEAM SHOVEL CO., of Marion, O., writes us that it is crowded witb orders, and working full capacity day and night. Even though it can build eight sfeam shovels at once in its erecting shop, it can build eight keep up with its work, and has orders enough to keep it busy until next winter. It bas some orders for delivery next spring.

Bids Received at Chicago III June 15, 1899, for Improving Harbor

Dido iteccived at Chicago, it., oun	0 20, 2000	,	mproring .			
Bidder.	Dredg- lng, 1,000,000	Remov-	Furnish- lng, 78,	Iron dredg ch'ns, 2.040	Stone,	
Diddet.	cu.yds.	each.	40 ft.long	lbs.	cords.	Total.
					\$7.50	\$94,499
Lydon & Drews Co., Chicago, Ill	8.95	\$3.00	\$12.00	8.0	\$4.00	
Green's Dredging Co., Chicago, Ili	9.25	3.50	10.00	7.5	7.50	97,358
Hausler & Lutz Towing & Dock Co., Chicago, Ill	9.5	2.00	11.00	7.0	7.00	99,600
	7.0	1.75	8.50	8.0	5.75	73,789
Chicago Star Construction & Dredging Co., Chicago, Ill.						132.082
Carkin, Stickney & Cram, Detroit, Mich	12.75	2.15	12.00	8.0	6.75	
Fitzslmons & Cornell Co., Chicago, Ill	12.5	3.00	10.00	10.0	7.00	129,634

BRICK PAVING.—Coldwater, Mich.—The following contract has been let to T. C. Brooks & Sons, Jackson, Mich., for Trimble block paving, with cement filer: Riggs & Sberman, Engrs., The Nasby, Toledo, O.; P. H. Sweeney, Cy. Clk.: Sewer plpe—10-in., 330 ft., 26 cts. a ft.; 12-in.,

EVANS, ALMIRALL & CO., 44 Dey St., New York, have opened an office at 1120 Monadnock Bldg., Cblcago, Ill., to bandle the Evans system of exhaust hot-water beating for central plants and factories. The new office will be in charge of Mr. F. N. Jewett.

THE AMERICAN CAR AND FOUNDRY CO., It is reported, has an order from the Terre Haute & Indianapolis R. R. Co. for 100 cars; also a contract from the C., B. & Q. R. R. Co. for 200 refrigerator cars. The former are to be built at the Terre Haute Works, at Terre Haute, dd., and the latter at the Wells & French Works, at Chicago, Ill.

hicago, Ill.

THE RARIG ENGINEERING CO., Columbus, O., has norder from the Cumberland Steel & Tin-Plate Co., Cumberland, Ind., for a Corliss engine for rolling milli work. Hywheel of this engine will weigh 100,000 ibs.—The ompany also has an order from the United States governent for 16 12-in. 1896 model mortar carriages for constense. The company has just completed an order of 12-in. 1896 model mortar carriages for the same service.

12-in, 1896 model mortar carriages for the same service. THE WHITING AUTOMATIC PUMP CO., of Detroit, the, has recently put on the market a device for pumpg water, consisting of a pump driven by a failing weight, eweight is raised by means of pulieys and the pump is arranged as to operate only when water is being drawn on the piping system. One of the great advantages of eaystem is that the water remains in the well or cistern til wanted for use, thus obviating danger of freezing in dweather or becoming very warm in summer, as might sult where water is pumped to elevated tanks.

result where water is pumped to elevated tanks.

THE PULLMAN PALACE CAR CO., Chicago, Ili., has norder from the Railway Department of the government of Bavaria, for six cars for the Bavarian State Railway.

A report states that Chevallier Bouteli, representing menglish syndicate of \$150,000,000, invested in railways in the Argentine Republic and in street railways in Bueson Ayres, has placed a \$5,000,000 order with the company. Heretofore the syndicate has bought exclusively necessary of the syndicate of the Chicago company, oaches, parior and buffet cars. It has ordered street cars or its tramways in the Argentine capital. These last will be equipped with motor, whether electric or pneumatic s not yet decided.

will be equipped with motor, whether electric or pneumatic is not yet decided.

THE PIERCE-CROUCH ENGINE CO., manufacturers of gas engines, New Brighton, Pa., announces that its works are running fuli, with many orders ahead, and the following sales lately made: Rochester Tumbler Co., Rochester, Pa., two 50-HP. engines, being the hird order received from this company; Freedom Water Co., Freedom, Pa., one 50-HP. engine, being the second engine to be installed at this plant; Warwood Tool Co., Wheeling W. Va., one 50-HP. engine, being the second sold this company; Pittsburg & Lake Erie R. R. Co., two 20-HP. and one 13-HP. engine, for pumping plants to be located at McKee's Rocks and Parke Station, on its lines; Wheeling Mold & Foundry Co., Wheeling, W. Va., one 25-HP. engine.

THE NEW ERA HRON WORKS, 37 Wayne Ave., Dayton, O., has orders for a 40-HP. and a 60-HP. gas engine for an electric lighting station for "The Aigonquin," a 10-story apartment house being erected in that city. The gas engines, which will be beited to a jack shaft, will be enameled in white and gold, and will be placed in a finely finished portion of the basement, the walls, ceiling and 60-HP. gas engine for the hadian Fibre Co., at Kokomo, ind., and is building a 60-HP. gas engine for the Creacent Iron & Brass Works, Detroit, Mich.; a 60-HP, gas engine for the Columbus Gleen Bldg. New York, announces that it expects to

e Shear Co., Fremont, O., and a 40-HP, gas engine for the Columbus Biscuit Co., Columbus, O.

THE AMERICAN WOOD FIREPROOFING CO., Bowling Green Bidg., New York, announces that it expects to put steam on in its new works at Newark, N. J., next week, and by the 1st of July should be in full readiness for treating all kinds of iumber, according to its special process. The recent Naval Board, appointed for the testing of fireproofed woods, to whom the company submitted samples, has reported favorably upon the work, and say that it is equal to any. This hoard reported favorably upon the processes of three companies, among the many submitting treated woods claimed to be fireproofed. The works are equipped with the most improved machinery, the cylinders, in which the wood is prepared, heing made from 4-In. flanged steel, and will test to a pressure of the indiameter, inside measurement. The lumber la placed upon steel cars and treated on these in the cylinders. The capacity is 30,000 ft. a day for treating. The company also bas three modern dry-kilns, especially adapted for kiln-drying treated wood. The company will soon be in position to answer inquiries as to accepting or-

ders for treatment, as it much prefers to protect the ium-ber dealer, acting for him where bids are asked on fire-proofed wood. It wishes as far as possible to confine itself to the work of treating the lumber and not mer-chandising the material, unless it may be on foreign in-quiries, of which it has had a large number.

quiries, of which it has had a large number.

EXHIBITORS AT THE MASTER CAR BUILDERS'
AND MASTER MECHANICS' CONVENTIONS.—The foilowing are the names of the supply houses making exhibits at the annual conventions of the Master Car
Builders' and Master Mechanics' associations, held at Old
Point Comfort, Va., June 14-23, 1839. In each case the
firm named has been listed under the heading of its most
prominent exhibit or of the leading material handled by it:
Air-Brake Hose.—Boston Beiting Co., Boston, Mass.;
Boston Woven Hose & Rubber Co., Boston, Mass.; Peerless Rubber Mfg. Co., New York.
Air Compressors.—Raud Drill Co., New York.
Asbestos Goods.—H. W. Jones Mfg. Co., New York;
Keasby & Mattison Co., Ambler, Pa.
Automatic Air and Steam Couplings.—Automatic Air &
Steam Coupler Co., St. Louis, Mo.; Pettingtil & Lamb,
Denison, Ia.
Brake Beams.—Chicago Railway Equipment Co., Chica-

Rasbys & Mattison Co., Ambier, Pa.
Automatic Air and Steam Coupings.—Automatic Air & Steam Coupier Co., St. Louis, Mo.; Pettiugili & Lamb, Denison, Ia.
Brake Beams.—Chicago Railway Equipment Co., Chicago; Monarch Brake-Beam Co., Detroit, Mich.; Oval Brake-Beam Co., Philadelphia, Pa.; Sterlingworth Railway Suppiy Co., Easton, Pa.
Brakes, Brake-Shoes and Brake-Slack Adjusters.—American Brake Co., St. Louis, Mo.; American Brake-Shoe Co., Corning, N.
Y.; Westinghouse Air-Brake Co., Pittsburg, Pa.
Carborundum.—Carborundum Co., Niagara Falis, N. Y.
Car Doors and Fittings.—American Grain & Car Door Co., Philadelphia, Pa.; Chicago Grain Door Co., Chicago; Dayton Maileable Iron Co., Dayton, O.; Jones Car Door Co., of Chicago; B. E. Kanaiy Co., Cambridgeport, Mass.; Missouri Railway Equipment Co., St. Louis, Mo.; National Railway Specialty Co., Chicago,
Car Heating Systems.—Consolidated Car Heating Co., Albany, N. Y.; Gold Car Heating Co., New York.
Car Roofs and Roofings.—F. W. Bird & Sons, East Waipole, Mass.; C. B. Hutchins & Sons, Detroit, Mich.
Car Seats and Fittings.—Boston Artificial Leather Co., Boston, Mass.; Hale & Kilburn, Philadelphia, Pa.; Heywood Bros. & Wakefield, Boston, Mass.; Knitted Mattress Co., Canton Junction, Mass.; United States Railway Supply Co., New York.
Coupiers.—Acme Railroad Equipment Co., St. Louis, Mo.; American Mgs. Co., New York; American Steel Foundry Co., St. Louis, Mo.; Buckeye Coupier Co., Columbus, O.; Gouid Car Coupier Co., Corniug, N. Y.; McConway & Torley Co., Pittsburg, Pa.; National Coupler Co., Chicago, Ill.; Smillie Coupler & Mfg. Co., New York; American Steel Foundry Co., Railroad Supply Co., Chicago, Ill.; Smillie Coupler & Mfg. Co., New York; American Mgs. Co., New York; American Steel Foundry Co., Railroad Supply Co., Chicago, Ill.; Smillie Coupler & Mfg. Co., New York: American Mgs. Co., Chicago, Ill.; Smillie Coupler & Mfg. Co., New York: Smillie Coupler & Mfg. Co., New York: Smillie Coupler & Mfg. Co., New York: Partsas Mfg. Co., Boston, Mass.; Arnamie vaneer Co., New

Mass.
Luhricators.—Defroit Luhricator Co., Detroit, Mich.; Michigan Lubricator Co., Detroit, Mich.; M. & S. Oller Co., Denver, Colo.
Paints.—Sherman-Williams Co., Cleveland, O.
Pipe Clamp.—Acme Pipe Clamp Co., St. Louis, Mo.
Platform Gates.—R. Bliss Mfg. Co., Pawtucket, R. I.

Pneumatic Tools.—Chicago Pueumatic Tool Co., Chicago, Inl.; Q. & C. Co., Chicago; Standard Pueumatic Tool Co., Chicago.

Replacing Frogs.—B. E. Tilden Co., Chicago.
Replacing Frogs.—B. E. Tilden Co., Chicago.
York Belting & Packing-Co., Ltd., New York.
Side Bearings.—Baltimore Ball-Bearing Co., Baltimore, Md.

Md.

Steel Cars.—Goodwin Car Co., New York, N. Y.; Pressed
Steet Car Co., Pittsburg, Pa.

Trucks and Boisters.—American Steel Foundry Co., St.
Louis, Mo.; Cloud Steel Truck Co., Chicago, In., Stering-worth Railway Supply Co., Easton, Pa.

Wood-Working Machinery.—American Machinery Co.,
Grand Rapids, Mich.; Greeniee Bros. & Co., Chicago.

NEW COMPANIES.—Mount Sterling Telephone & Electric Co., Mt. Sterling, O.; \$6,000; Clay Johnson, O. W. Loofborrow, I. S. Heukle, W. R. Richards, J. A. Miller, all of Mt. Sterling.

New Confantes.—Mount Sterling Telephone & Electric Co., Mr. Sterling, O.; \$6,000; Chay Jonnson, O. W. Loofborrow, I. S. Heukle, W. R. Richards, J. A. Miller, all of Mt. Sterling.

Automatic Elevator Door Device Co., East Orange, N. J.; \$150,000; manufacture automatic devices for closing elevator doors; William H. Thompson, Duucan T. McLaren, Illinois Electric Vehicle Transportation Co., Chicago, Ill. \$10,000; Carl Meyer, Chas. R. Holden, Carey V. Rhodes. Jeuney Construction Co., East Orange, N. J.; \$50,000; to manufacture automatic alarms and electrical apparatus; I. Haliam Jenney, Lucien W. Jenney, Elbert A. Brinckerhoff, Jr., Duncan T. McLaren.

American Electrical & Malutenance Co., New York; \$50,000; A. K. Warren, F. J. Reilly, W. F. Reilly, Scranton Bolt & Nut Co., Scranton, Pa.; \$150,000; W. D. Zenehuer, Leoauon; W. Connech, Scranton, and others.

Safety Car Coupler & Mig. Co., St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000,000; W. B. Lyon, Gustav Willins, St. Paul, Minn.; \$10,000; W. B. Lyon, P. Lewis, of Wilkes-Barre, P. D., Sharker, M. W. Smith, S. M. Sinnott, H. M. Smith, all of Nastic.

Standard Heating & Boiler Co.

# Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadeiphia and Washington are usually in the New York post-office by midnight; all Brooklyn and New York city papora by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign cop-les, ia in the mall soon after 6 o'clock Thursday morn-ing. If your paper is not received promptly we adviss that you make a complaint to your local post-office offi-

## SEWER PIPE.

NOTICE TO CONTRACTORS.

WESTBORO, MASS.
Sesied proposals for removing about 1,950 linest feet of 15-Inch vitrified sewer pipe and furnishing and laying a like amount of 16-inch cast-iron pipe and doing other things pertaining to the reconstruction of a portion

of the outfall sewer of the Westborough,
Msss., sewerage system, will be received by
the undersigned at their office until eight
o'clock Monday evening, July the tenth, 1890.
Plans and profile will be on file and Specifications and Forms of Proposals may be obtained at the office of their Engineer, Van Vsikenburgh, South Framingham,

on and after the 27th day of June, 1899.
All bids must be made on the blank Form to be furnished for that purpose by the Engineer; and must give the prices proposed, both in words and in figures, signed by the bidder with full name and address, and endorsed "Proposal for Reconstructing Outfall

The price offered is to cover all the expenses incidental to the completion of the work in full coaformity with sald Specifications.

Each bid must be accompanied, either by a bond with two sureties satisfactory to said Sewer Commissioners for the sum of three hundred dollars, according to Form to be obtained at the office of said Engineer, or by a certified check for the sald sum payable to the order of the Treasurer of the Town of

Notice will be sent by mail, post paid, to the address of the person to whom the contract may be awarded. If, within four days from mailing the said notice, the person to wbom the contract is awarded does not appear before the said Sewer Commissioners at their office and execute the contract and give the security required by said Sewer Commissioners, he shall he deemed to have aban-doned his bid, and the hond accompanying

the same, or other security, shall be forfeited.

A bond for the faithful performance of the contract shall be required of the successful hidder to whom the contract may be awarded, in a sum and with sureties to he satisfactory to the Sewer Commissioners, but not exceed-

ing the amount of the hid.

The work is to be hegun within ten days after the execution of the contract, and to be completed on or before the 1st day of November, 1899, time being the essence of this

The Sewer Commissioners reserve the right The Sewer Commissioners reserve the right to reject any and all bids that may be offered for any reason satisfactory to them.

MICHAEL G. McCARTY,
FRANK V. BARTLETT,
HARRY W. KIMBALL,
Sewer Commissioners of the Town of Westborough, Mass. 25-1t

U. S. ENGINEER OFFICE, Mobile, Ala., June 20, 1899.—Proposais for furnishing and delivering Hydraulic Portland Cement, Gravel and Sand, at McGrews Shoal, Ala., received here until 12 o'clock, noon, July 20, 1899. Information on application. WM. T. ROSSELL, Maj., Engrs.

## SEWERAGE SYSTEM.

Seaied proposais will be received by the Town Council of the Borough of Somerset, Pa., until 2 o'clock, p. m. of Wednesday, July 12, I899, for the construction of 4.87 miles of sewers in sizes from 8 to 18 inches in diameter, 65 manhoies, and 19 flushtanks.

Proposais must be submitted on blanks which, together with copies of the specifications, can be obtained from R. E. Meyers, Clerk of Council, or the Engineer, after July

Pians may be seen at the Council Chamber and Information given by the Engineer.

The Council reserves the right to reject any or all proposals.

J. WATSON FREASE, JAS. S. HARING, President of Council Engineer. 25-1t

## BRICK AND ASPHALT PAVING.

CHILLICOTHE, O. Bids are asked until July 5th for paving

H. M. REDD, City Engineer

## SEWERS.

HACKENSACK, N. J.

Sealed proposals will be received by the Hackensack improvement Commission at the Commission Rooms, Mercer St., until 8 p. m., Monday, July 10, 1899, for constructing

About 465 ft. of flat top sewer, 5 ft. wide;

308 of 24-in. plpe sewer;

58 of 24-in. plpe sewer;

58 of 28-in. together with manholes, cafchbasins, etc.

Drawings and specifications may be see and blank forms of proposals obtained at the office of Lemuel Lozier, Engineer, No. 1 Main St., Hackensack, after June 28. Proposals must be made upon the blank forms furnished.

Ail proposais shail be accompanied by certified check for Five Hundred (\$500) Dol-lars, drawn to the order of the Hackensack Improvement Commission, as surety that if proposal is accepted, contract will be entered into.

The Hackensack Improvement Commission reserves the right to reject any and all bids.
M. E. CLARENDON,

President Secretary.

U. S. ENGINEER OFFICE, Army Building, New York, June 19, 1899.—Sealed proposals for dredging in Bay Ridge and Red Hook Channeis, N. Y. Harbor, wili be received here until 12 m., July 19, 1899, and then publicly opened. Information furnished on application. H. M. ADAMS, Major, Engrs. 25-4t

Manufacturer of Contractors' Supplies READS ENGINEERING NEWS AVAIL YOURSELF OF THIS PAPER WHEN BIDS ARE WANTED FOR CONSTRUCTION OR FOR FURNISHING SUPPLIES.

#### DRAINING SWAMP OR MEADOW LANDS.

NEWARK, N J. Sealed propossls will be received by the Board of Street and Water Commissioners of the city of Newark, N. J., on Thursday, July 20, 1899, between the hours of 3.30 c'clock and 3.45 o'clock p. m., at the place of meeting of the said Board, Nos. 128 and 130 Halsey street, in the said city of Newark, for the work of draining the swamp or meadow lands lying within the Ninth, Tenth and Twelfth Wards of the said city of Newark, pursuant to the provisions of an aet entitled "A supplement to an act entitled 'An act to authorize the corporate authorities of cities and towns to drain meadow and swamp lands lying within their corporate limits,' approved April twenty-first, one thousand eight hun-dred and seventy-six," which supplement was approved March 20, 1899. Said sealed pro posals to be accompanied by separate proposais for the repsiring, rebuilding, mainte-nance and operation of said works or system of drainage for a term of ten years with the annusl cost thereof.
Said propossis must be accompanied by

plans showing the entire district to be drained and the location of tide-banks, dikes, dams, drains, pumping stations, sluices, sewer basother works and appurtenances to built and constructed, together with detailed drswings and descriptions sufficient to make clear the essential features of the works which the bidder proposes to construct.

The water surface in the drains or ditches must be maintained at a level not less than six feet below the city datum at all points within the area of said swamp or meadow iands.

Pumping plants must be so arranged that the full capacity of the plant may be prompt-ly brought into use in case of sudden storms. They must have a capacity to pump at least 900 cubic feet of water hourly for each acre of catchment tributary to the pumping station, and must show a duty test of at less! 50 million feet pounds for each one hundred pounds of dry Cumberland coal or its equivalent in fuel consumed.

Ail tide-banks, canais, ditches, pumping

stations and other works must be so located that the lands necessary for their construction and maintenance may be acquired and wned by the city.

Bidders must state the time in which the works included in their plan will be com-

llidders must state the cost for the entire work, and the periods of time in which payments thereon are required to be made to

them by the city.

Bidders must also state the cost for the completion of any portion of the work, in-eluding a distinct drainage district, together with the periods of time in which payments thereon are to be made to them by the city. Bidders must also state the cost for the

annual maintenance, repairing and operation of the entire system of drainage works or of a complete drainage district, for a period of ten years from the date of the completion of the work, and the period of time in which payments thereon are to be required to be de to them by the city.

The said Board of Street and Water Commissioners reserves the right to reject any or all proposals, plans and estimates submitted under this advertisement.

Each bidder can procure a map of the city showing the extent and relative location of the swamps or meadow lands contained with-in the respective wards upon application in the Engineer's office at the City Hail.

addition to the above, and with the object in view of obtaining the best plans for reclaiming, draluing and improving the swamp or meadow lands within the corporate limits of the city of Newark, the Board of city, through the Board Street and Water Commissioners, offers the following prizes, namely: The sum of five hundred dollars (\$500) for the best plans, with accompanying descriptions and esti-mates; three hundred dollars (\$300) for the second best, and two hundred (\$200) for the

The plans are to be examined and their respective merits determined by two persons one to be selected by the said Board of Tradand one by the said Board of Street and Commissioners, and upon the failure of sald two persons to agree, they may se lect a third, when the decision of any two shall be final. Each competitor must inclose his name and address and a chosen number in a small sealed envelope, which is to ac company the plans and descriptions and estimates, all to be inclosed in a large sealed envelope or package, which is also to

be marked with the same number as contained in the small sealed envelope. small sealed envelope will not be opened untii the plans, descriptions and estimates have been examined by the judges and their respective merits determined, whereupon the prize will be awarded. The plans, descriptions and estimates are to remain the property of the Board of Street and Water Commission-WM. E. GREATHEAD,

Clerk of the Board. Per ERNEST ADAM, Engineer of Street and Sewer Departments.

# ELECTRIC LIGHT PLANT

NOTICE.

SEYMOUR, IOWA.

Sealed proposals will be received by R. F. Greer, Town Clerk, for the material, mschinery and construction of an electric light plant for the public and private lights of the Town of Seymour, Wayne County, lows, for which detailed specifications have been provided in sections, so that manufacturers of material and machinery and contractors may

bid on such as they make a specialty of.

For specifications and further information address R. F. GREER, Town Clerk.

FRED. W. SALMON.

Engineer, Burlington, lowa 25-1t

#### ESSEX COUNTY PARK COMMIS-SION.

NOTICE TO CONTRACTORS.

Proposals for the construction of masonry and frame work shelters Nos. 1, 2 and 3, and public lavatory building, in Branch Brook Park, Newark, N. J., will be received at the office of the Essex County Park Commission Broad street, Newark, N. J., on Tues

day, the 27th day of June, 1899.

The Commission will be in session from 3.00 to 3.30 p. m. of that date to receive the proposals, which will not be received at any other time or place.

The propossls must be sesled and must be indorsed as follows:
"Proposals for construction of sheltera Nos

1, 2 and 3 and public lavatory building at Branch Brook Park, Newark, N. J."

Plans and specifications can be seen, and full information as to bidding obtained, at the office of the Essex County Park Commission, 800 Broad street, Newsrk, N. J.

The architects, Carrere & Hastings, will give necessary explanations or instructions to bidders at their office, No. 28 East 41st street.

THE ESSEX COUNTY PARK COMMISSION, A. CHURCH, Secretary,

## STEEL BRIDGES.

NOTICE TO BRIDGE CONTRACTORS.

LIMA, OHIO.

Sesled proposals will be received by the City Clerk until 12 o'clock noon, of Thursday, July 6th, 1899, for the construction of two steel bridges over Ottawa River.

Each bridge shall be approximately as follows: Clear span, 80 feet; clear roadway, 26 feet; two sidewslks, each 7 feet clear; capacity of roadway and sidewalks (live load) 100 pounds per square foot; factor of aafety, 4 to 6: steel folsts.

Bidders must submit with their proposals drawings and specifications of bridges upon, and a preliminary bond or certified check on some Lima bank, in sum of \$500, must accompany each bid.

C. E. LYNCH, City Clerk. 25-2t

# WATER-WORKS.

MICHIGAN CITY, IND.

Sealed proposals for the construction of Water-Works System at Michigan City, diana, will be received at the office of the Secretary of Lake Michigan Water Company at Michigan City, Indiana, until noon of the 30th day of June, 1899.

A pumping well and intake pipe 3,600 fee long, extending into Lake Michigan.

A river crossing and about 1,000 feet of 20-lnch force main, and about 450 feet of 20-inch suction pipe, all in place and completed.

Each bid must be accompanied by a certified check for \$1,000 as a guarantee of good faith, made payable to Martin T. Krueger, Secretary Lake Michigan Water Company.

Specifications may be obtained and the planat the office of the City Civil Engineer of Michigan City, and also at the office of the Lake Michigan Water Company.
Proposals should be addressed

MARTIN T. KRUEGER, Secretary, Michigan City, Ind.

#### WATER-WORKS.

TO CONTRACTORS.

WILLIMANTIC, CONN.

Proposals for Power Pumping Machinery for the Willimantic Water-Works will be received at the office of Thomas J. Kelley, 762 Main Street, Willimantic, Conn., until 2 o'clock p. m., Monday, the 24th day of July, 1899.

Each bid must be signed by the bidder and accompanied by a certified check for \$500, conditioned for the execution of the contract (with satisfactory aureties for its performance) within the time specified in this advertisement. In case the bid be accepted.

The person, persons, or corporation to whom the contract may be awarded will be required to appear at said office with the securities ofby him, them, or it, and execute contract within six days (not including Sundays) from the date of the notification of such award and the preparation and readiness for signature of the coutract; and in case of failure to do so, he, they or it, will be considered as having abandoned it, and the check will be forfeited to the City of Williamntic.

The sureties upon the bond for the contract must be satisfactory to the Water Commit-

The amount of accurity required will be fixed by the Committee aforesaid after the bids are opened, said amount to be not less than one-fourth nor more than one-half of the amount of the contract.

The said Water Committee also expressly reserve the right to reject any or all bids should they deem it for the interest of the City of Willimantic to do so.

TIME OF COMPLETION.

Bidders are required to state in their pro posais the date on or before which they will guarantee to have the pump erected and ready to run in its regular service, also the date en it shall be ready for final acceptance. Copies of the contract and specifications can

be procured of the said Water Committee. WILLIAM D. GRANT, THOMAS J. KELLEY, ROBERT E. MITCHELL,

Water Committee of the City of Willimantic Dated at Willimantic, Conn., this 20th day of June, A.D., 1899.

# STORM WATER CONDUIT.

EAST ORANGE, N. J.

PROPOSALS for the Construction of a Storm Water Conduit or Sewer in the Valley of Black Brook, East Orange, Essex County, N. J.

Sealed proposals for the above work, endorsed with the above title, also with the name or names of the person or persons maklng the same, and the date of presentation. will be received by the Township Committee of East Orange, New Jersey, at their publi-meeting room, No. 388 Main street, Eas Orange, N. J., on the tenth day of July, 1899, at eight o'clock p. m. The proposals must b delivered to Mr. Stephen M. Long, Township Clerk, not later than the date and time named, as no proposal received after that time will be opened or considered.

Bidders are required to state in their pro posals, under oath, their names and places of residence; the names of all persons interested with them therein; and if no other person be so interested, they shall distinctly

The proposal must be verified by the oath. in writing, of the party making such pro-posal, that the several matters therein stated are in all respects true. When more than one person is interested in the proposal, the verification must be made by all the parties interested. Each proposal shall be accompanied by the

consent, in writing, of two freeholders in the County of Essex, State of New Jersey, with their respective places of business or residence, to the effect that if the contract be awarded to the person making the propos they will, on its being so awarded, become bound as his sureties for Ita falthful performance; and that if he shall omit or refuse to execute the same, they will pay to the In-habitants of the Township of East Orange any difference between the aum to which he would be entitled on its completion and that which the Inhabitanta of the Township of East Orange may be obliged to pay to the person to whom the contract may be awarded at any aubsequent or other letting; the amount in each case to be calculated upon the estimated amount of work by which the bids are tested. The consent above men-tioned shall be accompanied by the oath or affirmation, in writing, of each of the persons signing the same, that he is a freeholder in the County of Essex, and is worth the amount of the security required for the

completion of the contracthe proposals over and debts of every nature, above his liabilities as ball, wise; that he has offered as stated in over and ety or other. elf as surety in good faith, and with an cute the bond required by n to ex The undertaking of a guaranty or authorized to make contra pany, duly suretyship in New Jersey, and of sa ry standing, will be accepted in lieu of The adequacy and sufficient offered will be determined Sureties the surety he Township East Orange. Committee of the Township The amount of security ed is twenty thousand dollars.

N. B.—The Price must be proposal, and also stated in proposals will be considered which do not contain bids for gures, and all items called for in these specifications, which contain bids for items not called for Permission will not be given for withdrawal of any bid, and the right is served by the Esst Orange To mittee to reject any or all bids which deem prejudicial to the public interests. which may

# ESTIMATE OF QUANTITIES.

Approximate estimate of the done is as follows:

lone is as follows:

Bailing and draining.

Rubbie masonry and appurtenances:

11 cubic yards masonry.

24 lineal feet blue stone coping.

10 anchors.

Concrete—1,200 cubic yards.

Timber foundation—80 thousand. B. M.

Rock excavation—850 cubic yards.

Sewer 5 feet 6 inches in diameter—1,600 lineal feet. Rock each.
Sewer 5 feet 6 inches in the lineal feet.
Sewer 5 feet in diameter—2,100 lineal feet.
Sewer 4 feet 9 inches in diameter—1,340 lineal feet.
Sewer 3 feet 9 inches in diameter—700 feet.

Sewer 3 feet 8 inches in diameter-540
Sewer 3 feet 6 inches in diameter-540

Sewer 3 feet 6 inches in diameter—340 lineal feet.

Pipe Sewer 1 foot 6 inches in diameter—1,500 lineal feet.
Manholes, 22.
Receiving Basins, 37.

Average length of connection to Receiving Basin, 65 feet.

Specifications, blank forms of proposals and further information, can be obtained on ap-plication, and pisns for the work inspected at the office of the Engineer of the Township. Town Hall Building, No. 388 Main street East Orange, N. J.

By order of the Township Committee.

STEPHEN M. LONG.

Township Clerk

# IRON OR STEEL WATER PIPE.

LANSINGBURG, N. Y., June 20, 1899. Sealed proposals will be received at the office of the Board of Water Commissioners, Village of Lansingburg, N. Y., until 8 o'clock p. m., Thursday, July 6th, 1899, for Steel, Refined Iron or Cast-Iron Water Pipe, 14 inches inside diameter, of the following approximate lengths:

13,000 ft. to be under a head of 100 ft. 11,000 ft. to be under a head of 200 ft. And about 17 tons of Iron Specials, according to specifications, which will be furnished upon application to the engineer.

Proposals to be indorsed either "Steel," Re-ned Iron," or "Cast-Iron Water Pipe," acfined Iron," or "Cast-Iro cording to bid submitted.

Bidders must use the printed forms furnished with the specifications.

By direction of the Board.

Engineer.

# WATER-WORKS.

EAST JORDAN, MICH.
Bids for a complete Stesm System of Water-

Works for the Village of East Jordan will be received by J. J. Gage of said village, chairman of committee, up to snd including the 10th day of July, 1899, at 7 o'clock p. m.

Specifications furnished upon app J. J. GAGE,

\* Chairman W .- W. Committee. 25-1t

U. S. ENGINEER OFFICE, Wilmington, Del., June 10, 1809.—Sealed proposals for Dredging in Appoquinimink, Smyrns and Muderkill rivers, Delaware, will be received here until noon, July 10, 1899. Also proposals for erection of Pile Dikes at mouth of Mispilling River, Del. Information furnished on application. WM. F. SMITH, U. S. Agent. 24-4:

PROPOSALS FOR SNAGBOAT AND HULL.—U. S. Engineer Office, Little Rock, Ark., June 16, 1899—Sesied proposals for furnishing one steel snagboat and one steel snagboat and one steel snagboat and one steel snagboat and one steel snagboat snagb

U. S. ENGINEER OFFICE, Boston, Mass. June 20, 1899.—Sealed proposals for dredging in Plymouth Harbor, Mass., will be received here until noon, July 21, 1899, and then publicly opened. Information furnished on spelication. CHAS. R. SUTER, Col. Engrs. 25-44.

PERSONA
Obituar
Coning
ENGINEE
Coming
NEW PUI
Trade
CONSTRU
Conden
Railway
Street a
Electric
Bridges
Buildin
Horizona
Garbags
Streeta
Manufa
Gas Pi
Miscelii
Contrac
INDUSTRI
PROPOSA

ed in his and other-

exe-nder-duly iyship iding, reties surety inship ange, wenty

n the nd all ormal called called ontain Per-Irawai ly re-Com-irawai ly re-

M. -1,600 feet. -1,340 er-700 er-540 neter-

celving

on ap-spected wnship, street,

PIPE. 1899. at the sloners, o'clock Steel, ipe, 14

00 ft. 00 ft. cording d upon

,'"'Re-e,'' acrnished

KS, ineer.

MICH.

Water-will be chair-ing the m. ation. E. hittee. hington, als for d Mur-ed here sais for spillion in appli-24-4t

AND Rock, als for the steel n, July Infor-OBERT 25-4t

Mass., redging received en pubon apongrs.

е.

Mr. T. I and Mr. J. Works Dej Mr. S. H of the Ch tendered h Mr. Wm Iron Co., cof six mil those at C Mr. W. wood, Ill., Works, of tion to co pipes and Mr. E. of the Ch elected Ch to succeed Traffic Ma R. R. Mr. Wm ger for th gone to th Mr. S. W. of the B the New Mr. Geo of the Bs General S Baltimore years ago Louis Ry. rai Storel Mr. W. V Susquehan has ion, to Superintes M. D. Cls Jersey So way busin

Mr. D. Agent of t 48 years.

Prof. K Chemical aged 50 ye Mr. Hen Pacific R. of that rai fell into it served in of New Y Mr. Joh & Schley aged 52 important Dredging Telegraph see Coal, Mr. He Railways. 23, from Branford, vice of ti tion of t 1854 was vision of Co. was o others, b and reors Ry. From ganization lines in t Ry., the I