ack-an & es to

ridge-

\$100, Hui-

tee & Ken-

.00

426

ntee & ur H.

rpora-Hoff-

ph 8 50.000;

50,000;

y St., inford en, N.

m. F. Koyle,

. San

, Cal.;

Market lemple,

ncisco, akiand ; P. C.

\$300,-

N. J.;

York, August

F. H.

o.; \$1.-prings. \$300,-

00,000. I Bam-

R. B. Tromle.

00,000;

amden,

50.000; ngfield, a Trust

WS.

lies.

0.74	1.1.2.4.4.10										
ERSONAL											
ERSONAL											
RSONAL					• •	*	• •	٠		• •	•
CONDINIA 2	ULLE I LEW										
INDIA CODETS	d Meetings .			• • •	-				-		
oming Local	Meetings										
PUBLICATI	IONS										
d. Publicati	10DS					-					
STRUCTION	NEWS:										
STRUCTION	Contracts	Pend	iug								•
21mm 10 10 10 1 1 1 1											
and Elec	tric Railwsys and Power			• •							
reet and Light	and Power .			• • •	• •	• •	•	• •	•	۰.	î
lectric Liene	and Power .					• •	• •	• •	•	٠	1
ridges										٠	,
wildings											
- POT- WOLKS											
-i.motion											
TIE MOTO	sal and Stree		a la a	• •	• •	• •					
ewerage Disno.	sal and Stree	t Crea	uiug		• •	• •	•	• •	•	•	1
arbage Diop	sal and Stree			• •	• •	• •	٠	• •			1
treets and in	Diants										•
In putaciurii 6	T TOPPT COL. C. C. C.										
an Plants											
ticoptianeous	Contracts										
OLGIRT COUCIO	ACLS MING										

Water	-Worr	5.5									• •				•		•	•	• •		•	•	•
Irriga	11011 .																٠	٠	•	• •			
lrriga Sewer Garba	age	nosal	and	S	tre	et	C	10	ea	n	lı	ıg		•	•	•	•	• •		• •	•	•	•
Garba	ge Dis	Road	8								•	• •		٠	٠	٠	•	•	•	• •			
Street	5 200	Road	lants			• •					•	• •	• •		•	•	•	•	•	• •	•	•	•
Manu	actui	ALD .									•			٠	•	٠	•	٠	•	• •		•	
Manu Gas I	lants	us Col	ntrac	ts													•		•	• •	•		•
Misce.	laneo	us Con	s and	E	xp	OI	t	N	e	W	8.	• •		٠	•	•	•			• •	•	•	•
Foreig	act Pr	ices		• •		• •	• •	• •	• •		• •		•	•		•	٠	•	•	• •	•	•	•
Contra	LAIS	NOTE	S			• •		• •	•	• •	•	٠		•	•	٠	٠	•	•	• •		•	•
INDUSTI New (	Compa	nies .				• •	• •	• •	•	• •	٠	• •	•	•	٠	٠	٠	•	•	• •		٠	•
											٠	• •	• •		٠	٠	٠	٠	٠	• •	• •		٠
New ( PROPOS.	ALS .			-	-	-	-	-	-	-	-	-	-		-	-	-		-	-	-	-	

#### PERSONAL.

Mr. Geo. A. Carpenter has been appointed City Engineer

56

f Pawtucket, R. I. Mr. Louis G. Hester has been elected Engineer and ecretary of the Southern Bridge & Construction Co., of

Mr. J. R. Kearney has been appointed Superintendent of Car Service of the Baltimore & Ohlo R. R., with offices at Camden Station, Baltimore, Md.

Mr. George Simpson, Assistant Civil Engineer, Northern Mr. George Shirpson, Assistant position to accept the posi-Pacific R. R., has resigned his position to accept the posi-tion of Chief Engineer of the Province of Ontario, to suceed Mr. J. A. McDonald.

Mr. Harry M. Pflagler, Chief Mechanical Inspector of he Pullman Car Co., bas heen appointed Superintendent a charge of all repairs, repair shops and mechanical patters of the company.

Mr. A. D. Page has been appointed Bridge Engineer of he Great Northern Ry., to succeed Mr. Max Toltz, who has been transferred to other service. Mr. Toltz will also act as Consulting Bridge Engineer.

Mr. George W. Stevens has been elected President of the Chesapeake & Ohio Ry., to succeed Mr. M. E. Ingalls, and Mr. Decatur Axtell has been elected First Viceresident of the same road to succeed Mr. George T.

Mr. H. Fay Alleu, formerly of the U. S. Deep Water-ways Survey, and Mr. M. S. Darrow, late assistant to Prof. Willams, of Cornell, have recently heen appointed recorders in the U. S. Engineer Department, Chicago, Ill., Mr. Jas. A. Seddon, U. S. Assistant Engineer.

Mr. H. H. McClintle, Vice-President and General Mana-er, and Mr. Chas. S. Marshall, Secretary and Chlef Engier of the Shiffler Bridge Co., Pittsburg, Pa., have resigued d will engage in the manufacture of structural steel under e name of the McClintie-Marshall Construction Co., with floes at 404 Park Bldg., Pittsburg.

Mr. Harry W. Early, General Freight and Passenger Agent of the Sait Lake & Ogden R. R., has resigned, and hs position has been taken by Mr. J. Fogarty. Other changes which have been made in the official staff of the company are the appointment of Mr. J. E. Bamberger as Vice-President, and of Mr. J. H. Kirk as General Superin-

Mr. Alfred M. Quick, Assoc. Mem. Am. Soc. C. E., for-erly Assistant Engineer of the Baltimore Water De-artment, has been appointed by Mayor Hayes Chief bigineer of the Department and President of the Water Board. Under the new city charter he will also be a member of the Boards of Estimates and of Public Imvements.

Mr. Marvin H. Dey, who was Engineer of Track Eleva In advin H. Dey, who was Engineer of Track Eleva-bon in 1899 for the joint work of the Chicago, Rock Isl-ad & Pacific Ry. and the Lake Shore & Michigan South-ern Ry., is now Engineer in Charge of Construction of the Gowrie & Northwestern Ry., with office at Gowrie, Ia. This is a branch of the C., R.-I. & P. Ry. from Gowrie to Shore the state of the C. ey, 110 miles.

Mr. Edwin R. Holden, for many years Vice-President of e Delaware, Lackawanna & Western R. R., has resigned. I. Holden has had particular charge of the company's al interests, but for some time much of the work has been turned over to his son. Mr. Holden is 70 years of see, and his retirement is due to his advanced years and og health.

Mr. Thomas Rodd, M. Am. Soc. C. E., Chief Engineer of the Pennsylvania Co. and Consulting Engineer for the Westinghouse Interests, has salied for Europe with the plans for the new plant of the British Westinghouse Co., st Manchester, England. Mr. Rodd expects to be gone six weeks, and in that time it is probable that bids for the work will be asked for from Pittsburg contractors. contract for a \$500,000 re-equipment of a street railway already in the hands of the company.

Rear Admiral F. V. McNair, U. S. N., who has been Rear Admiral F. V. McNair, U. S. N., who has been superintendent of the Naral Academy at Annapolis since July, 188, has been detached from duty on sick leave for an indefinite period. Admiral McNair is the ranking Rear Admiral of the Navy, being second only to Admiral Dewey, and has had continuous service for 42 years, of which nearly 21 years were passed at sea. Commander Richard Wainwright has been designated by the President to succeed Admiral McNair as Superintendent of the Laval Academy. Commander Wainwright was the officer ENGINEERING NEWS.

### OBITUARY.

Mr. Nathaniel A. Boynton, President of the Boynton Furnace Co., of New York city, died on Feh. 10 at the age of 77 years.

Mr. Charles Martin and Mr. George R. Black, civil en-glneers, of Escanaba, Mich., were killed in a railway wreck on the Chicago & Northwestern Ry. on Feb. 8.

Mr. James McCartney, Commissioner of Street Cleaning of New York city, died on Feb. 6, aged 48 years. Mr. McCartney was appointed Commissioner of Street Cleaning on Jan. 1, 1898, to succeed Col. Geo. E. Waring. Mr. Percy E. Nagle has been appointed to succeed Mr. Mc-Cartney Cartney.

Mr. Brandt, of the firm of Brandt, Brandau & Co., the MR. Brandt, of the Brm of Brandt, Brandau & Co., the contractors for the Simplon tunnel now under construc-tion through the Simplon Alps, between Italy and Switz-erland (Eng. News, May 27, 1897), died recently. Mr. Brandt had become famous as a tunnel englener through his work on the Ariherg tunnel in 1867, and for his many ins work on the Arderg tunner in 1807, and for his many inventions of excavating and drifting machinery for tun-nel work. The Simplon tunnel, 12.2 miles long, was his greatest undertaking, and his death will be a serious loss to this enterprise as well as to the engineering world in general.

Lieut.-Col. William H. H. Benyaurd, U. S. Engineer Corps, died in New York city on Feb. 9. Lieut. Col. Ben-yaurd was born in Pennsylvaula. As soon as he was graduated from the Military Academy at West Polut in 1863, he was made a first lieutenant iu the corps of engi-neers. He was brevetted captain on August 1, 1864, for gallant service before Richmoud, and a major ou April 1, 1865, for meritorious service at the battle of Five Forks. He was engaged in construction work on defeuces at Fittsburg and Forcand Harbor, and in engineering work with the Army of the Potomac during the latter part of the war. He was assistant professor of engineering at West Point for three years. He was made a captain on May 1, 1866, a major on March 4, 1879, and a fieutenautcolonel on June 2, 1889. The death of Lieut.-Col. Beu-yaurd has caused the following promotions in the corps of engineers: Maj. William S. Stauton at Boston, to be Dieutenant Colonel; Capt, George W. Goethais at West Point, to be Major; First Lieut. Cuarles Keller at St. Louis, to be Captain; Secoud Lleut. Frank C. Boggs at Tampa, Fia., to be First Lieutenant.

Mr. Andrew Reasoner, the veteran ex-Superintendeut of the Delaware, Lackawauua & Westeru R. R., died at his home in Arlington Ave., East Orange, on Feb. 9, from a complication of diseases. He had been ill for a long a completence of measures in the new period of a long time with a chronic stomach complated and indigestion, and this finally affected his head. The immediate cause of death was the hardeniug of the blood vessels in the brain. He suffered greatly in the last few mouths of his illuess. Mr. Reasoner was horn in South Egremont, Mass., iu 1823. He received his early education in his native town, where he was graduated from the academy. He came to New York city and secured a place as purser on oue of the boats of the New York and South Norwalk line. Subsequently he was interested in a cah line that ran in Broadway. He finally entered the employ of the Hudson River R. R. Co., and was soou placed in charge of the River R. R. Co., and was soou placed in charge of the freight transportation department in New York. He was next appointed superintendent of the Long Island R. R., a place which he held ouig a short time, resigning it to hecome superintendent of the Chicago, Milwaukee & St. Paul Ry. He had charge of the building of the line from Portage to Watertowu. After some years he resigned aud came east. Samuel Sloan in 1869 placed bim in charge of the deuble tracking of the waip line of the Lackargeour the double tracking of the main line of the Lackawanua. He pushed this with such energy that when the Morris and Essex road was absorbed by the Lackawanna in 1871 he was made general superintendent, and held the office until last spring, when the new management of the road took charge. He was then retired on a pension. Mr. Reasoner married Miss Abbie Euphemia Byxbee, of South Norwslk, Conn., In 1849, and she survives him

#### ENGINEERING SOCIETIES.

#### COMING GENERAL MEETINGS.

CUMING GENERAL MEETINGS. AMERICAN PAPER AND PULP ASSOCIATION. Feb. 14-15. Annual meeting at New York city. Secy., C. W. Rantout, 101 Times Building, New York city. AMERICAN INSTITUTE OF MINING ENGINEERS. Feb. 20. Annual meeting at Washington, D. C. Secy., R. W. Raymond, 99 John St., New York city. ASSOCIATION OF ONTARIO LAND SURVEYORS. Feb. 27 to Mar. 1. Annual meeting at Toronto, Can. Secy., A. J. Van Nostrand, Yonge St. Arcade, Toronto, Can.

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

#### COMING LOCAL MEETINGS.

COMING LOCAL MEETINGS.
ENGINEERS' CLUB OF COLUMBUS.
Feb. 17. Secy., H. M. Gates, 12½ North High St., Columnus, O.,
ENGINEERS' CLUB OF PHILADELPHIA.
Feb. 17. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
PACIFIC COAST RAILWAY CLUB.
Feb. 17. At San Francisco, Cal. Secy., E. A. Gilbert, West Oakland, Cal.
MONTANA SOCIETY OF CIVIL ENGINEERS.
Feb. 17. At Helena. Secy., Albert S. Hovey, Helena, Mont.

Mont. Mont. ENGINEERS' CLUB OF CINCINNATI. Feb. 20. Secy., J. F. Wilson, P. O. Box 333, Cincin-nati, O. ENGINEERS' SOCIETY OF WESTERN PENNSYLVA-

NIA. Feb. 20. At Pittsburg. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

NEW YORK RAILROAD CLUB.
Feb. 20. At New York city. Seey., W. W. Wheatley, 168 Montague St., Brookiyn, N. Y.
WESTERN RAILWAY CLUB.
WESTERN RAILWAY CLUB.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Feb. 21. Act New York. Seey., C. W. Haut, 220 W. 57th St., New York. Seey., C. W. Hunt, 220 W. 57th St., New York. Seey., C. W. Hunt, 220 W. 57th St., New York. Seey., C. W. Hunt, 220 W. 57th St., New York Seey., C. W. Hunt, 220 W. 57th St., New York Seey., C. W. Hunt, 220 W. 57th St., New York Seey., C. W. Hunt, 220 W. 57th St., New York Seey., C. W. Hunt, 220 W. 57th St., New York Seey., C. W. Hunt, 220 W. 57th St., New York Seey., Seey., Spring Ave., st. Louis, Mo.
FRANKLIN INSTITUTE
Feh. 21. At Philadelphia, Pa.
AMERICAN INSTITUTE OF ELECTRICAL ENGI-NEERS.
Feh. 23. At New York city. Seey., Raiph W. Pope, 26 Constrant Set. New York city.

NEERS. Feh. 28. At New York elty. Seey., Ralph W. Pope, 26 Conrilandt St., New York elty.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUIS-VILLE.—At the annual meeting of the club, held at Louisville, Ky., Jan. 15, the following officers were elect-ed to serve during the ensuing year: Chas. Hermany, President; Henry Vogt, Vice-President; Marshall Morris, Secretary; Directors: W. A. Anderson, J. M. Johuson, Soren Thurstensen, Jos. McWilliams, Pierce Butler. The Bank of Commerce, Treasurer. Col. Thomas W. Bullitt will read a paper at the February meeting on "1900-Retrospect and Prospect." Marshall Morris, Secy. CIVIL ENGINEERS' SOCIETY OF ST. PAUL.—The res-

Retrospect and Prospect." Marshall Morris, Secy. CIVIL ENGINEERS' SOCIETY OF ST. PAUL.—The reg-ular meeting of the society was held Feb. 5. Mr. C. F. Loweth read a paper on "Moving Horizontality a 361-ft. Raifroad Bridge Spau with Oak Wedges." Mr. A. W. Münster described his experience in raising heavy weights with wedges. To cite one case: A steel tower 130 ft. high supporting deck spans and resting on masonry ped-estals, two of which had settled. To plumb the tower, thin steel wedges, 42 to a pedestal, were alternately driven and shimmed by eighths of an inch, thus lifting about 300 tons au inch and a half without damage to the bridge, masonry or to tho wedges. The wedges were 18 lus. long, 3½ ins. wide, rising %-in. in 12 ins., and were forged under a steam hammer from locomotive springs taken from the scrap heap. C. L. Annan, seey. INTERNATIONAL CONGRESS OF NAVIGATION.—This

INTERNATIONAL CONGRESS OF NAVIGATION .- This soclety will hold its eighth meeting in Paris, from July 28 to Aug. 3, 1900. The members of the Congress will in-clude delegates of the Freuch and foreign governments; delegates accredited by chambers of commerce, cities, uav-igation and towing compaules, railway and transportation reaction and towing companies, failway and transportation companies, and technical, scientific and industral socie-ties and syndicates and individuals who have signified their intention of becoming memoers to the Organizing Committee before the opening of the session. All mem-bers shall pay an assessment of  $S_0$ , which entitles them to bers shall pay an assessment of \$5, which entitles them to all the publications of the Congress. The office of the Committee of Organization is in the Chamber of Com-merce, Place de la Bourse, No. 2, Paris, France. The pro-gram of the Congress calls for the following topics: "Effect of Regulating Works Upon the Regimen of Rivers," "Progress Made in Mechanical Application to the Feeding of Canais," "Utilization of Natural Navigable Waterways of Restricted Depth above their Maritime Sec-tion," "Progress mado in Mechanical Applications in the Operation of Navigable Waterways-Privileged Traction Companies," "Institutions to Pension and Instruct the Per-Operation of Navigable Waterways—Privileged Traction Companies," "Institutions to Peusion and Instruct the Per-souuel of the Boat Crews," "The latest Improvements in Lighting and Buoying Coasts and Harbor Entrances," "The Most Recently Constructed Works in the Principal Coastwise or Maritimo Ports," "Facilities to be Given to Ports to Meet the Demauds of Ocean-Going Ships (dimen-sions to be given to the principal works and the general uavigable conditions required," "Progress in Mechanical Applications to the Plants and Other Facilities of the Ports.

#### NEW PUBLICATIONS.

THE RAILWAYS IN INDIA.—Administration Report for 1898-99. Part 2. By A. Brereton, Director of Kaliway Traffic and Statistics. Paper boards; 4to.; pp. 622, map.

This part of the annual report forms a buiky volume and deals with the traffic and finances of the various roads during the year. There are voluminous tables of traffic statistics, distribution of receipts and expenses, etc., and at the end is a description ist of all the railways, with the dates of opening and particulars of the construction. Other tables give the dimensious, etc., of the principal bridges and tunnels. All the financial statements are given in Indian currency.

REPORT. MAINE STATE RAILROAD COMMISSION, 1899.-J. B. Peaks, Frederic Danforth and Benj. J. Chadbourue, Commissioners. Cloth,  $5\frac{1}{2}\times 9$  lns.; pp. 412; illustrated. The report shows that on June 30, 1898, there were

1,871.85 mlies of steam railway in Maine, of which 124.54 mlies had been built during the year. Of this mileage miles had been built during the year. Of this mileage 154.17 miles were narrow gage. The mileage of street rail-way on the same date was 240.20, of which 71.48 miles were added during the year. Substantial gains are shown for the year in traffic and earnings. One of the features of the report is a series of half-tone views from photo-graphs of roadbed, structures and natural scenery along the various railways of the state.

#### TRADE PUBLICATIONS.

TRADE PUBLICATIONS. (The standard sizes for pamphlets and trade catalogues recom-mended by all the principal engineering societies of the United States are: 3% x6 ins., 6 x9 ins., aud 9 x 12 ins.) POWER STATION CONSTRUCTION.—Arnoid Electric Power Station Co., 1540 Marquette Bidg., Chicago, III. Cloth; 11 x8 ins.; pp. 21; Illustrated. The "Arnoid System" of connecting engines and elec-tric generators is described in this book, which is a neat-iy bound volume of blue-prints. Reproductions of draw-ings and photographs are given showing power plants built and dealened by the above company. bullt and designed by the above company.

#### CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Vol. XLIII. No. 7.

(For foreign railway news see under and Export News.") BENWOOD & WHEELING .- This control in West Virginia on Feb. 1, w

us raliways Hearne and N. B

BENWOOD & WHEELING. This comport news. ) porated in West Virginia on Feb. 1, with al stock, to build a connecting road with about Benwood and Wheeling. The line built this spring. J. M. Vance, F. J. He Scott, of Wheeling, J. M. Vance, F. J. He Scott, of Wheeling, are interested. CANADA.-The Pontiac-Pacific Juncid applied for the right to construct a line shawville, Que., to Pembroke, Ont., an exceeding 30 miles. H. S. Maitby, Sey. St. James St., Montreal.-A company porated at Amherst, N. S., to build a ross Harbor, by the Datton Trail, to Fort so Dawson. Logan, Jenks & Outheto, Am ested.-The Algoma Commercial Co., Marie, Ont., has been incorporated; cap to construct a railway, public and priva-work mines, etc. Francis H. Clerque. 1 Marie Puip Co., is interested. Ry. Co. has om Quyon or anches, hot Treas, 189 Saul: and

Marie Puip Co., is interested. CANADA.—Reports state that it is pri-pany, which is now seeking incorporals ment, to build a railway through the y line will probably be built from Carson eriy direction, with a terminus at Phoeni posed to Summit, Weilington, Central at and a branch to Greenwood. S. C. Bi solicitor for the applicants.

CANADIAN PACIFIC.--It is report Engr., has asked for bids for constru-tween Nelson and Ballour, E. C., about W. Tye, line be-

tween Nelson and Ballour, E. C., about 5 CHICAGO, INDIANA & EASTERN-He work will soon be started on the extens from Matthews to Muncie, Ind., and them Fremout Wilson, Ch. Engr., Matthews, Ind CHICAGO, ROCK ISLAND & PACIFIC. Ch. Engr., Chicago, Ili., informs us that tention of extending the Des Moines & Ho A line in now being built from Gowrie, w Des Moines and Ruthven, and extending which grading has been completed and track laid. E. Dauch

which grading has been completed and eight miles of track laid.
 CHICAGO, WEST PULLMAN & SOUTHERN-The company has been incorporated in Hilton's with \$20,90 capital stock to build a railway from Chicago to East & Louis, as a means of transport for the products of me steel companies to the Mississippi River. Wm. H. Mose Pres; Chas. E. Sheldon, Vice-Pres, West Pailman, Hilton DAVENPORT, ROCK ISLAND & NORTHERN-TH H from Davenport, I.a., to Peoria, Hilt, extending through the call lands owned by the company. C. E. Dearborn, Co Engr., Davenport, II.
 DELAWARE, LACKAWANNA & WESTERN-W, K McFarlin, Ch. Engr., Hoboken, N. J., informa us that the proposition of track elevation of the company's ine through Newark, N. J., is now before the council of that it. J. Plans have not been definitely decided upo.
 DES MOINES, IOWA FALLS & NORTHERN-H is re

city. Plans have not been definitely decided upon. DES MOINES, IOWA FALLS & NORTHERN.-It is re-ported that a second survey will be made by this company preparatory to beginning the construction on the read from Des Moines to Iowa Falls. Arrangements for finan-eing the company are now being made.

DULUTH, SOUTH SHORE & ATLANTIC.-This com-pany, it is stated, will soon begin the construction of in Mineral Range branch from Mass City through to a con-nection with main line of the road at Lake Gogline. The work of completing the survey for this line was begin by W. W. Olney, Engr., on Feb. 1. H. J. Payne, Ch. Engr. Marquette, Mich.

work of completing the survey for this line was been by M. W. Olney, Engr., on Feb. 1. H. J. Payne, Ch. Engr., Marquette, Mich.
ERIE & EASTON.--Ed. Heuer, Seey. and Treas, Erie, Pa., informs us that the ordinance for a franchise to enter Erie, Pa., and build to Harbor Pond, has been passed by the council of that city and accepted by the company. Nothing towards the construction has been done. J. F. Downing, Pres., Erie, Pa.
FLORIDA & GEORGIA.--H. C. McCrary. Ch. Engr. Galnesville, Fla., confirms the report in our issue of Feb. 1 that the contract for constructing this line from Welberne to White Springs, nine miles, has been let to Whiddon & McCrary. Mr. McCrary states that survey and about four miles have been completed, and that far-ther extensions are contemplated.
FORT DODGE & SOUTHEASTERN.-This company has been organized in Iowa with about \$250,000 capital stok to huild a railway from Fort Dodge to Story City, Iowa about 40 miles. A. R. Loomis, Geo. N. Mason and G. L Rich, of Fort Dodge, are interested.
GREAT NORTHERN.-It is reported that a cutoff will be built by this company from the Mesaba from rage. In Minesota, to the head of the lake, about 50 miles, saving about \$36 miles. The line has been located and will be built by this company from the Mesaba from rage.
In KANSAS.-B. J. Hammond, Salina, Kan., it is state, will file a charge with the screetary of attac for the line will ge a charge with the screetary of attac for the built will ge a charge with the screetary of attac for the line will ge a charge with the screetary of attac for the line will ge a charge with the screetary of attac for the built will ge a charge with the screetary of attac for the line

the fights of way have been secured and the route surveyed. LITTLE RIVER VALLEY.-S. L. Morrow, Cb. Egr. Horatio, Ark., Informs us that 20 miles of this line have been surveyed and right of way secured. About 20 miles of horsehack survey has been made. Negoliations are may and Lockport, 16 miles, is heing constructed by J. Lahey, Horstio, as stated in our issue of Dec. 7, of which eight miles are in operation. The entire line will exced from Little Rock, Ark., to Chickasha, Ind. Ter., 350 miles MONONGAHELA & WESTERN.-John A. Romine, CL. Engr., McKeesport, Pa., informs us that the location for this line from Millsboro to Clarkeaville, via Ten-Mil Creek, 3% miles, has been adopted by the company. MORGANTOWN & KINGWOOD.-11 has been avery

Pres., Warsaw, N. I. PORT HURON & SOUTHERN.-This company is re-ported to bave been incorporated, with \$50,000 capital stock, to build six miles of standard gage road from Port Huron to a point on the St. Clair River.

ARTISTS' MATERIALS.-Frost & Adams Co., 37 Cor biii, Boston, Mass. Paper; 6% × 4% ins.; pp. 197; This priced catalogue refers to the multitude of things used by the artist, engineer and student. Illustrations and text plainly describe each and give the price.

ELECTRICAL INSTRUMENTS.—Whitney Electrical In-strument Co., 203 Broadway, New York city. Paper, 3 × 6 ins.; pp. 26; illustrated. Paper;

Portable and switchboard electrical instruments for di-rect and alternating currents are described with price-lists in this catalogue.

WELL DRILLING.-L. Wilson, 225 Dearborn St., Chicago, iii. Paper, 3% × 5 ins.; pp. 8.

BOLTS, NUTS AND WASHERS.--American Iron & Steel Mig. Co., Lebanon, Pa. Paper; 6 × 9 ins.; pp. 88; il-

This contains a list of some of the water, gas, oil and alt wells driven, with the location and depth of each.

This is a catalogue and price list of bolts, nuts, rivets

BADGES AND RIBBONS.-Whitehead & Hoag Co., New-ark, N. J. Paper; 11% x 7% ins.; pp. 56; illustrated. By means of colored photogravures this catalogue l-lustrates a great variety of badges made in metal, cellu-ioid and ribbon for parades or club gatherings.

STEAM ENGINE .- The George B. Sennett Co., Youngs town, O. Paper; 9×6 ins.; pp. 16; illustrated. This pamphlet describes a slide-valve throttling engine of 30 to 50 HP, adapted for places where a substantial and reliable engine is needed.

STEEL TOOLS AND DIES.—Crescent Steel Co., Pittsburg, Pa. Paper; 3 × 6 ins.; pp. 130; illustrated. This book contains a list of the exhibits of steel tools manufactured by the above company at the National Export Exposition at Philadelphia.

CORLISS ENGINES .- Bates Machine Co., Jollet, III. Pa-per; 6½×10 ins.; pp. 61,; illustrated.

The Bates-Corliss engine is fitted with the 4-valve trips invented by Albert J. Bates, which are placed on the rods connecting the admission valves with the wrist plates. The engine is described and illustrated in detail.

DRAWING TABLES.-R. E. Kidder, 28 Hermon St., Worcester, Mass. Paper; 7½ x 4% ins.; pp. 7; illustrated.

Trated. These drawing tables are intended for civil engineers, artists, draftsmen and architects. They have a wheel tift, can be raised or lowered, revolved or inclined at any angle. Dimensions and prices are given.

FEED WATER HEATERS AND PURIFIERS.—Bates Ma-chine Co., Joliet, Ill. Paper; 6×9 ins.; pp. 51; Il-lustrated.

This pamphlet is devoted to the Cookson devices, including feed water heater, purifier, filter, oil separator and condensation receiver. Testimonials and a list of users are given.

TROLLEY TRACKS.-Coburn Trolley Track Mig. Co., Holyoke, Mass. Paper; 9×6 ins.; pp. 32; illus-trated.

These trolley tracks are for carrying purposes in factories, shops, etc., and the illustrations show various applications of the system, and separate detail sheets show just how the tracks are built aud operated.

CORDAGE.-Samson Cordage Works, 115 Congress St., Boston, Mass. Paper; 6×3½ ins.; pp. 18; illustrated. Braided cord for all manner of use is here illustrated and described. These products include sash cord, clothes lines, railway signal cord, ventilator and awning cord, etc. With the cord itself are all sorts of littings and connections.

BOILER FLUE PLUG.—Reinhold Betterman, Johnstown, Pa. Paper;  $3 \times 6$  ins.; pp. 6; Illustrated. This pamphlet describes a device for temporarily stop-ping up leaky boiler flues. Metallic plugs are placed in the two ends of the flue and are then drawn up tight by means of a rod passing through the tube and the plugs and provided with a thread and nut at one end.

FLUSH TANKS.-Walker Flush Tank Co., 916 Balth Ave., St. Louis, Mo. Paper; 5% × 8 ins.; pp. 16; il trated.

The Walker flush tank siphon has double Iron bell or dome, and a vent pipe is carried up inside the tank, formed by a segmental wall of brick built against the side of the tank. It has been in use on the Pacific coast since 1895.

PAINTS FOR WOOD AND STEEL.—The Goheen Mfg Co., Canton, Ohio. Paper; 9×6 ins.; pp. 23; lilus trated.

This is a treatise on the preservation of wood and metal surfaces; illustrates the effects of exposure upon iron, and points out the special advantages claimed for the Carbonizing Coating made by this firm; together with testimoniala from users as to its qualities in resisting rust, corrosion, acids, alkalies and gases.

CEMENT COATING.-New England Cement Coating Co., Boston, Mass. Chicago Cement Coating Co., 737-8 Monadnock Block, Chicago, Ili. Paper; 12% × 9% Ins.; pp. 29; illustrated.

This cement coating is a water and frost-proof covering applied to exterior or interior rough hrick walls; it has been in use for 15 years, and the work is guaranteed for a period of years. The catalogue shows buildings upon which it has been used and refers to those who bave tried It.

PUMPS AND HYDRAULIC MACHINERY.—Sciple Pump Co., 107-109 North Third St., Philadelphia, Pa. Paper; 6% × 4 ins.; pp. 96; Illustrated. This is an Illustrated price list of a great variety of

pumping machinery, from small pumps for wells to du-Among the special machines made plex steam pumps. are deep-well, vertical steam pumps, Rider and the Ericsson pumps, odorless force pumps, centrifugal pumps, electric pumps, etc. The same firm furnishes steel wind-mills, water-tanks and towers, pipes and fittings, etc.

Mig. Co., lustrated.

and kindred articles.

iustrated. Mass.

# Supp SILVE

WAYC

UNION

STI

Sat about  $\xi_{1,00,000}$ . Harmond, Salina, Kansaka, B. Bagi, a raw KANSAS, B. J. Harmond, Salina, Kan, it is stately rill file a charter with the secretary of state for the in-orporation of a company, with  $\xi_{5,000,000}$  capital stock, o build a railway from Salina to Sahne Pass, for which be rights of way have been secured and the route sur-rowed. will to

MORGANTOWN & KINGWOOD.-It has been ab nounced by Geo. C. Sturgis, Pres., Morgantown, W. Va. that the company's road would be extended to Bellington, W. Va., to penetrate the timber region, according to re-

ports. NORTHERN SUSQUEHANNA.—This company has been incorporated, according to reports, with \$160,000 explain stock, to build a line from the mouth of Bailey River to Sinnamahoning, about 16 miles, connecting with the Buffaio & Susquehanna and the Philadelphia & Erie at the latter place. PORT DOVEE, BRANTFORD, DEPLIN & GOOD-

the latter place. PORT DOVER, BRANTFORD, BERLIN & GODD RICH.-This company is reported to have been receiling incorporated with \$2,000,000 capital stock to huild a radi-to extend across the Province of Ontario, from Lake Erie to Lake Huron. The road will be operated by steam and electricity, generated by the water powers along the line, and will conduct a freight and traffic husiness, and oper-ate a line of steamships on Lake Erie for the Pensyi-vania coal, and iron trade in Canada. David W. McNat. PORT HURON & COUTHERN. This company is re-

### y was incor-900,000 capi-ious railways probably be ie and N. B.

Supplement-February 15, 1900.

PORT HURON SOUTHERN.-M. R. Wood, Ch. Engr., Port HURON, Mich., writes us that the surveys for this Port Huron, Mich., writes us that the surveys for this have been made and the rights of way obtained. The instance of the surveys of the survey surveys of the sur

Source of a second state of a

TAIL -A franchise has been granted by the council (From to E. J. Ward & Son to construct and operate circle railway through the city. WAYGROSS AIR LINE.—We are informed that the ex-ession of this line has been completed to Douglas, and will be strated. Preliminary survey has been made through be Fitzgerald. Ga. 25% miles. The work is being done by fitzgerald. Alex. Bonnyman, Ch. Engr., favoress. Ga.

arcrease, Ga. wirsconsin, Michigan & NORTHERN.-B. C. Gow-Wirsconsin, Michigan & Northern us that the sur-Ch. Engr., Peshtigo, Wis, informs us that the sur-ch share been made and 35% of the grading fluished for sy have been made and 35% of the grading fluished for sy have been made and 35% of the grading fluished for a line strending from Faithorn Junction to Ounnesee. a line strending from Faithorn Junction to Ounnesee. A Weigen Lauretta and Norway, about 18 miles. The strend for constructing the first seven miles was let to I McGrath, Green Bay, Wis, and the contract for the line will soon be awarded. S. M. Fisher, Pres., Chl-ine will soon be awarded.

STREET AND ELECTRIC RAILWAYS. foreign street railway news see under "Foreign Con-tracts and Export News.")

LEWISTON, ME.—John A. Jones, Ch. Engr., writes us the preliminary surveys have been made for the line of the Lewiston, Brunswick & Bath St. Ry., from Bruns-tek to Yarmeuth. via Freeport, about 174, miles, and in private right of way obtained. Contracts will be let a soon as the location is approved by the state rallroad ministon. A. H. Shaw, Pres., Bath. MILLERIDGE, ME.—It is reported that an electric rail-ar from Cherryfield to Milbridge is promosed. W. A. Aberis and E. A. Hubbard, of Biddeford, are said to are inspected the proposed route in the Interest of the raffate which is projecting the line. A company will cobaby be formed, capitalized at \$60,000.

hably be formed, capitalized at \$60,000. MANCHESFER. N. H.-Local papers state that the anheater St. Ry, will probably build an electric road Goffstown. Inspections of the route have been made W. A. Tucker, Pres., and J. Brodle Smith, Mgr. REENFIELD, MASS.-Messrs. Clupp & Ahercromble. excelded Mass., write us that preliminary surveys have em made for the Greenfield and Deerfield St. Ry. Co., the construction carital has not heen secured. The e will extend from Greenfield to Deerfield, about 10 les.

LFORD, MASS.—A company to be known as the rd. Upton & Grafton St. Ry. Co. is reported to have organized to build an electric line hetween thoses a shout 124 miles in length. The company will be alized at \$125,000. John Kellv, Somerville; Charles otton, Dedham; S. B. Fiske, Upton, and H. E. Mer-Milford, are interested. REINGTON, CONN.—A new survey is reported to been made last year for the proposed line of the inch the company will probably hegin work aoon-ections will be made at Bristol with the third rall m for Hartford. Noble E. Pierce is interested. LUMANTIC, CONN.—It is reported that an elec-

WILLIMANTIC. CONN-It is reported that an elec-trallway from this place to Baltic, meeting the lines the Norwich St. R. R. system, and connecting Willi-ulic and Norwich, 16 miles, is projected, and if built Il parallel the New London Northern and the New Your systems

en systems. 100KLYN, N. Y.-Local reports state that the ques-of re-equipping the Brooklyn Elevated and Kings ut systems with electricity, to sunplant the present m motive nower, is being considered by the direc-te of the Brooklyn Randd Transit Co., which controls lines. Clinten L. Rossiter, Pres., is said to have acted the electric elevated railway in Chicago with the the change.

They to making the change. FHOENIX. N. Y.-At a citizens' meeting on Feb. 2 it as voted in favor of granting a franchise to the Syra-use & Onelda Lake Traction Co. to build an electric ad from Syracuse to Three Rivers, by way of Schroep-el and Phoenix. Surveys have heen started, and the ad will he in operation between Syracuse and Three News by July 1 and will reach Phoenix by July 1, 1901. Steel bridge will be erected over the Oneida River at here Rivers.

aivers. MIESTER, N. Y.-It is reported that an electric to be built by Detroit capitalists, is projected to i from this city to Canandaigua. O. N. Grane, Can-GUA, is said to be interested.

Co: bas Quyon or nones, not Treas, 188 Ry. Pyramid ks, and to Sault Sta

in a north-urs are pro-ylark Campy Toronto, i

at W. Tye, a line beof the line Richmond

E. Dauchy, e is no m

ERN.-W. K. as us that the monany's line nany's line nell of that

ts for finan

tion of its to a cons begun by Ch. Engr

Treas., Erie, franchise to Ch. Engr.

company has apital story City City, Iowa, n and G. L.

cutoff will fon range, 50 miles, d and will St. Paul. is stated,

systems

capital stock, 'ass, for which the route surow, Ch. Engr., this line have about 250 miles ations are now in Neal Springs acted by J. P.

I by J. P. 7, of which will extend , 350 miles. Romine, Ch. e location for via Ten-Mile to Bellington

o Bellington, ording to re-

mpany has been \$160,000 capital Bailey River to ting with the phia & Erle at IN & GOOD-

been recently o build a road rom Lake Erie by steam and along the line, less, and operness, and oper-or the Pennsyl-vid W. McNair

sompany is re-\$50,000 capital road from Port

and from this city to Canandaigua. O. N. Crane, Canandaira, is said to be interested.
WATERFORD. N. Y.—The highway commissioners have stands a franchise to the Stillwater & Mechanlesville R. R. O. for the extension of its line in this town.
BLOMMSDURG, PA.—A 25-mile electric rallway is to be constructed between Danville, Bloomshurg and Berwick. The work also envolves the building of a power buse, two new bridges, and strengthening of a hridge across here been completed. J. C. Stulen & Co., Engrs., 14 So. Market Sq., Harrisburg.
MOUNT PLEASANT, PA.—The council has granted the Conselivitie & Uniontown Electric Ry. Co. a right of way through this borough, for which the company has paid town thin 18 months.
SHARON, PA.—Rights of way are new heing ohtained Hahard, Sharon and Sharpaville. J. D. Milligan, Youngstown, WashingToN, D. C.—A bill has been introduced in Councer for the proposed in the sharpaville. Washington, D. C.-A bill has been introduced in oursest MGTON, D. C.-A bill has been introduced in oursest incorporate the East Washington & Benning y. Co., to construct an electric line in this city. BALTIMORE, MD.-A hill was introduced in the coun-il an Feb. 5 to grant the Maryland Electric Ry. Co. Franchises on certain streets.

CUMBERLAND, MD.-Local papers state that an elec-trle rallway from Cumberland to Westernport is proposed. John W. Burchinai and J. E. Hooten, of Moundsville, are the chief projectors.

are the chief projectors. NASHVILLE, TENN.—The Nashville St. Ry. Co., the Citizers' Rapid Transit Co., the Nashville & Suburban Co. and the Nashville Ry. have been consolidated under the name of the Nashville Ry., with \$6.500,000 capital. CLEVELAND, O.—The Little Consolidated St. Ry. Co. has asked for an extension of franchises for 25 years, and in return offers to expend \$1,000,000 in changing the Superior and Payne Ave. cable lines to electric lines. The company has also offered \$200,000 from which the city's share for elluinating two grade crossings and building a boulevard arch is to be taken. GREENSUPPED (DD\_P, P. Hamilton, Crossburg in Reference of the company in the construction of the company in the company interval of the company in the co

GREENSBURG, IND.-R. P. Hamilton, Greenshurg, in-forms us that steps are heling taken to organize a company to obtain a charter to build an electric railway from Madi-son through Versallies, Osgood, Napoleon and Greensburg, ahout 48 miles. A charter will be asked as soon as or-locations of the steps o

ganized. LOGANSPORT, IND.-Local papers state that the In-dian Ry. Co., owning the electric lines connecting Goshen. South Bend and Elkhart, has executed a mortgage for \$1.000,000 for the purpose of extending the line from Goshen to Lake Wawasse and Warsaw, connecting with the Logansport, Rochester & Northern Traction Co. at the latter place.

the latter place. Recuester & Northern Traction Co. at DETROIT, MICH.-F. J. McMurtrie, Seey., 29 State St., Detroit, writes us that 45 miles of the Detroit, Roch-ester, Romeo & Lake Orion Ry, has been surveyed, and 27 miles is in oneration, the balance being under con-struction. The Detroit Construction Co has the contract. John Winter, Pres.; H. P. Strong, Ch. Engr., 29 State St. BELVIDERE, ILL.-Local papers state that it is pro-prosed to huld the Sycamore, Geneva & Southern Electric R. R., which is projected to extend from Morris, III., to Lake Geneva, Wis., through this place. Judge Kellum, Sycamore, representing the company, is now negotiating for right of way.

Sycamore, representing the company, is now negotiating for right of way. MILWAUKEE, WIS.—The Milwaukee Electric Ry. & Light Co. wants 100 tons of second-band flat horse-car rall. 5 Ins. wide, weighing from 40 to 50 hs, per yd. SEATTLE, WASH.—The council is considering the question of granting franchises for extension of the trol-ley service on certain streets in this city, as petitioned for by Ed. P. Tremper and W. H. White. SPOKANE, WASH.—Local papers state that the con-tracts for constructing the Seattle & Tacoma Electric Ry. Co.'s line will be let in a few days. The line will he 33 miles in length. It is proposed to begin operations by Aug. 1. General Manager Buccy is reported as stating that ralls are heing laid on Eleventh St. and Pacific Ave. in Tacoma, where the terminus of the line will he.

#### ELECTRIC LIGHT AND POWER.

(For foreign electric plants see under "Foreign Contracts and Export News.")

AMESBURY, MASS.-The council is discussing the uestion of erecting a municipal plant. MANVILLE, R. I.-The question of additional lights is eing discussed, according to reports.

FALO, N.Y.-Alderman Kissinger, Chn. Lamp is reported to be securing data for a municipal BUFFALO.

plant.

com., is reported to be securing data for a municipal plant.
MOUNT VERNON, N. Y.-A bill has been presented to the legislature authorizing this city to issue bonds to purchase the plant of the East Chester Electric Co. and also to issue \$40,000 in honds to purchase or crect fire houses. Edwin Fiske, Mayor.
WILLETTS POINT, N. Y.-The following hids were rerelved Feb. 3 by Maj. W. L. Marshall, U. S. Engr., Army Bidg., N. Y., of turnishing a 33-K-w. 125-volt compound dynamo: General Electric Co., Dayton, O., \$800; Northern Engineering Co., 39 Cortlandt St., N. Y., \$978, 60 days; Slemens & Halske Electric Co. of America, 26 Cortlandt St., N. Y., \$1,150, 100 days; Henry B. Newhall, 26 Cortlandt St., N. Y., \$100, 45 days;
ASBURY PARK, N. J.-A bill has been introduced into the legislature providing for the issue of \$31,000 in honds for a plant.

FREEHOLD, N. J.-The horough commissioners are onsidering the awarding of a franchise to a local com-

pany. OCEAN CITY, N. J.-Isaac Ferros, Geo. Barrett and J. C. Coxey, Camden, are said to be interested in a company which will erect a plant here. PASSAIC, N. J.-M. P. Slade, Secy., writes us that the plant of the Billings Water Co. is already hullt.

plant of the Billings Water Co. is already hullt. EASTON, PA.-B. Rushfield writes us that the clty has no idea of erecting a new plant R. H. Leach, Supt. SHAMOKIN, PA.-The Shamokin Light, Heat & Power Co. will erect a plant to cost ahout \$250,000. Plans are now being prepared.

Co. will erect a plant to cost ahout \$250,000. Plans are now being prepared.
STEWARTSTOWN, PA.—The Chief Burgess writes us that the council has let the contract for a plant; work has not yet started. A report states that Edw. H. Griffith, Baltimore, Md., has been granted the franchise.
WILMINGTON, DEL.—The council has granted a franchise.
WILMINGTON, DEL.—Bids are asked until March 6 for erecting a power house and underground passageway at Greenhank, and a prison and workhouse at New Castle, as stated in our advertising coldumns. J. N. Gawthrop, Pres. Bd. Trustees; J. F. Ball, Secy.
WINONA, MISS.—R. A. Allison writes us that the Winona Electric Light, Power & Ice Co. will receive information for constructing a plant to cost about \$25,000, running 50 2,000-c. p. arc and 2,000 16-c. p. incandescent lights, operated by steam. F. Jesty, Chn. Com.
JENNINGS, LA.—R. S. Stearns writes us that the contract for the machinery for the plant of the Jennings Electric Light & Power Co. has heen let to the Weatinghouse Electric & Mfg. Co., Plitsburg, Pa. Balters, Chandler & Arglor Co., Engrs.
GRAYSON, KY.—Peter Brown, Pollce Judge, writes us that he contract for the scaled for Lan 23 to yoote on the issue

GRAYSON, KY.-Peter Brown, Police Judge, writes us that an election was called for Jan. 23 to vote on the issue of honds for a plant, but none was held. There will he no plant unless the people vote to hond the town.

OWENSBORO, KY.-W. P. Small, Mayor, writes us that the council has \$40,000 on hand for a plant, capacity 150 2,000-c. p. are and 5,000 incandescent lights, and will receive proposals from huilders.

ALLIANCE, O.-The question of issuing \$35,000 in onds for hullding a municipal plant will soon he

BEREA, O.-F. J. Quayle, Mayor, writes us that the viliage has purchased the plant of the Berea Milling Co., and have purchased a 120-K-W. Westinghouse generator and a 150-HP. Buckeye engine. F. M. Dorland, Engr.

CLEVELAND, O.-The committee, composed of Chair-man Hoffman, Blackstone Bidg., Councilmen Bilisman, Green and Lapp, is securing data for the proposed mu-nicipal plant, to have a capacity for ahout 2,500 arc lights.

CARTHAGE, IND.—The trustees are considering the uestion of erecting water-works and a plant. ELWOOD, IND.—It is stated that the Union Traction 50. will erect a sub-power house, car barns, repair shop, tc., here. Phillip Matler, Pres., 1026 Meriden Ave., underson. Anderson

ROCKVILLE, IND.—The city bas purchased the local lant and will enlarge it so as to include water-works, coording to reports. plant

vecorating to reports. WASHINGTON, IND.-M. F. Burke. Treas., writes us nat the city has purchased the plant already in operation. BERRIEN SPRINGS, MICH.-It is stated that South lend parties propose to build a power dam and street allway at this place. that the

railway at this place. GRAND RAPIDS, MICH.—It is said that J. W. Spooner is proparing plans for a large power dam, to cost about \$250,000. W. T. Powers is interested. MUSKEGON, MICH.—C. S. Gamble, Cy. Engr., writes us that an election will be held in the spring to vote on the question of issuing \$40,000 for turning the pumping station into an electric plant. The city may also vote on raising about \$200,000 for repaying the streets with brick.

on raising about \$200,000 for repaying the streets with brick. SAGINAW, MICH.—The question of issuing \$75,000 in bonds for a municipal plant will be voted on shortly. SOUTH HAVEN, MICH.—M. T. French, Pres. of VII-lage, writes us that the people voted Feb. 7 to purchase a 250-HP, ingh-pres-sure bollers and one 3,000-light alternator; bida will be received within three weeks. S. A. Bridges, Engr. CHICAGO, ILL.—A. P. Trost, Vice-Pres., Chicago & Milwaukee Electric Rv. Co., writes us that there is no truth in the reported consolidation of plants hetween Evanston and Waukegan. ELGIN, ILL.—W. F. Sylla writes us that the com-mittee on electric lighting have advertised for bids for Feb. 12 for a 75-KW. single-phase, alternating dynamo. LONG PRAIRIE, MINN.—W. S. See, Village Recorder, writes us that the village has purchased the plant of the Electric Light & Milling Co. for \$10,000. It is likely that supplies will be wanted. \_MILWAUKEE, WIS.—It is stated that the Christensen

supplies will be wanted. MILWAUKEE, WIS.-It is stated that the Christensen Engineering Co. will erect a power house, to cost about \$12,000, O. C. Nehling, Arch., 330 Grove St. ELKADER, 10WA.-Schmidt Bros. & Co. have applied for a franchise for a plant, according to reports. TOPEKA, KAN.-The city engineer will prepare plans for a lighting plant for the suburb of Potiona, to cost about \$25,000, P. L. Wise, Cy. Engr. DENVER, COLO.-J. D. Vaughn, Secy., writes us the Longs Peak Power Co. has secured title to storage lakes and reservoir sites on the St. Vrain River and is hullding a road along the river.

LOVELAND, COLO.-L. B. Harter, writes us that Mc. Can & Co. have applied for a 20-year franchise. The council is considering this and the question of building s municipal plant.

unneipal plant. HELENA, MONT.—Bids are asked until Feb. 19 for 100 lternating are lamps, three 25-K-W, high-potential trans-ormers, 20 miles No. 4 weather-proof copper wire, 400 oles 33 ft. 170 45-ft. poles, western cedar, cross-arms, tc. Edw. Horsky, Cy. Clk.

10. Eaw, Horsky, Cy. Clk. STILLWATER, OKLA, TER.-W. R. McGeorge, Mayor, vrites us that an election will be held March 13 to vote in the issue of \$30,000 in honds for water-works. A plant o cost \$7,000 may also be built. WINNIPEG, MAN.-It is stated that Edward Irwin, Jamilton, Ont. is preparing plans for a plant to develop 1000 HP. for the St. Andrews Falls Power Co. TORONTO, ONT - W. T. Stowart has submitted to the submitted in the state of the submitted in the state.

TORONTO, ONT.-W. T. Stewart has submitted to the fire and light committee estimates of the cost of a mu-nicipal plant.

SHERBROOKE, QUE.—The Sherbrooke Gas & Water o, 4 Wellington St., will install new machinery in their lant to increase its capacity.

DARTMOUTH. N. S.-This town will hulld a plant to ost about \$40,000, according to reports.

NEW COMPANIES.-Sidell Electric Light & Cold Stor-ge & Ice Co., Sidell, Ill.; \$12,000; W. Bowen, J. H.

age & Ice Co., Sidell, III.; \$12,000; W. Bowen, J. H. Herron. Tillamook Electric Light Co., Tillamook, Ore.; \$30,000; J. C. Haverly, J. F. Watt. Consumers' Heat, Light & Ice Co., Newport News, Va.; \$100,000; Alex. Brown & Son, Baltimore. Md. Kinston Electric Light Co., Kinston, N. C.; \$10,000; S. H. Ahhott, L. Harvey. Greenshoro Watter & Light Co., Greenahoro, Ala.; \$30,-000; C. E. Waller, L. L. Webb. La Grande Light & Power Co., La Grande, Ore.; \$10,-000; Jos. Palmer, J. F. Venaler. Nun Creek Reservoir & Supply Ditch Co., Fort Collins, Colo.; \$100,000; P. Harrington, J. L. Smith. Stust Power & Motor Co., Jersey City, N. J.; \$100,000; J. H. Whitten, W. Depuy. Electro Chemical Light & Heat Co., Camden, N. J.; \$1,000,000; F. C. Dowd, J. L. Gethins. Toms River & Island Helekits Electric Light & Power Co., Toms River, N. J.; \$20,000; S. B. Applegate, C. A. Holmes. ...Consolidated Ice & Electric Co., Charlottesville. Va

Holmes. Consolidated Ice & Electric Co., Charlottesville, Va.; \$40,000; T. O. Troy. River District Light. Heat & Power Co., New York, N. Y.; \$50,000; J. Douglass, Hudson Park; C. H. Dodge, Riverdale.

N. Y.; \$50,000; J. Douglass, Hudson Park; C. H. Dodge, Municipal Light, Heat & Power Co., Hohoken, N. J.; \$300,000; J. Bruning. Manhatian Light, Heat & Power Co., St. Paul, Minn.; \$1,000,000; L. L. C. Brooks, A. W. Zahn. Guernsev Incandescent Light Co., St. Louls, Mo.; \$100.-600; D. W. Guernsev, S. T. Price. San Pedro Terminal Gas, Electile & Power Co., Los Angeles, Cal.; \$100,000; H. V. Carter, G. I. Cochran. Enterprise Telegranh & Telenbane Co., Belle Plain, N J.; \$20,000; L. M. Hess, R. B.Hess. Utita Electric Co., San Francisco, Cal.; \$10,000; F. H. Elechaum, M. J. Wright. Belmont Light & Power Co., San Mateo, Cal.; \$100,000; C. R. Snilvsle, C. E. Dugan. Merchants' Light, Heat & Power Co., Youngstown, O.; \$50,000; H. F. Kaercher, D. F. Anderson. South Jersev Water & Electric Power Co., Vineland, N. J.; \$250,000; C. K. Landis, M. Fry.

#### BRIDGES.

EAST LONG MEADOW. MASS.-Wm. H. Hall, Ch. Se-lectman, writes us that the town has petitioned the gen-eral court to abolish the grate crossing at Robeson Cross-ing. Plans and estimates for the improvement have heen prenared and will be submitted at the next hearing. PROVIDENCE, R. L-O. F. Clapp, Cy. Engr., writes us that a committee has heen appointed to consider the ad-visability of abolishing the Acorn and Tefft Sts. grade crossings, but nothing further has heen done. BUFFALO, N. Y.-Local papers state that the hoard of public works has decided that the Delaware, Lackawanna & Western R. R. shall huild a girder hridge over its cross-

ing on North Main St. The company was recently ordered by a decision of the court of appeals to replace the present structure with a bridge which will not encroach upon the street.

Street. CORNING, N. Y.-Local papers state that the Dela-ware, Lackawanna & Western R. R. bas offered to give \$25,000 towards the construction of the West Lackawanna Ave. viaduct, providing the city will close up that part of the avenue over which the viaduct will extend.

NEW YORK, N. Y.-The contract for the borings and soundings on the sites of the towers of the New Manhat-tan Brooklyn Bridge has heen let to Bernard Rolf, 39 Cortlandt St., at \$7,590. (See bids under Contract Prices In our issue of Feb. 1.)

Prices in our issue of Feb. 1.) ROCHESTER, N. Y.-Plans have been discussed by the West Ead Improvement Association, for the proposed bridge over the canal at West Ave., to cost about \$75,000. The structure will probably be built next winter...-The project for a bridge over the Genesee River, connecting the Ridge road, is being revived, according to reports. UTICA, N. Y.-The bridges over the Mohawk River at Genesee St. and Park Ave. have been examined by Chas. F. Stowell, Engr., Albany, who has condemned them as unfit for traffic. Preliminary steps are being taken by the council to issue \$65,000 for replacing both structures by new ones.

CHESTER, PA.-The Baltimore & Obio R. R. has pr ented plans to the council for moving the abutment of t Kerlin St. bridge back 17 ft., so as to enable the wide ng of the street.,

Ing of the street, EMPORIUM, PA.-J. K. Hockley, Clk. Comrs., informs us that no action has been taken towards the construction of the proposed iron and stone bridge over Portage Creek. Plana will be prepared by V. A. Brooks, Des. Engr., Sin-namahoning, Pa.

namahoning, Pa. HARRISBURG, PA.-Local papers state that the con-struction of the proposed new bridge over the railroad yards at Maclay St., will soon be commenced. OGONTZ, PA.-It is reported that bids will soon be asked for the construction of an iron and concrete bridge at this place, to cost \$15,000.

at this place, to cost \$10,000. PHILADELPHIA, PA.-Local papers state that the councils' committee on bridges has inspected the bridge over Frankford Creek in Frankford, with a view to con-structing a new bridge, as requested by the residents of that district.

that district. PITTSBURG, PA.—Plans for the new bridge to be erected from the extension of Wilmot St., over Panther Hollow to Schenley Park, have been prepared. The struc-ture will cost about \$100,000, and work will be started as soon as the bonds have been sold.

soon as the bonds have been sold. WASHINGTON, D. C.—The plans submitted by Geo. S. Morison, 35 Wall St., New York; Leffert L. Buck, 84 Broadway, New York: Wm. H. Burr, 151 West 74th St., New York, and Wm. R. Hutton, 35 Broadway, New York, for the proposed memorial bridge across the Potomac River, will be examired by the board appointed by the Secretary of War, as follows: Lieut-Col. Chas. T. Allen, U. S. Engr.; Maj. T. W. Symons, U. S. Engr.; Capt. David DuB. Gaillard, U. S. Engr.; Asst. Engr. Conr., Stanford White, Arch., New York, and James Hill, Arch. BALTIMORE, MD.—J. E. Greiner, Engr. of Bridges, B. & O. R. R., informs us that no steps have been taken towards the construction of the proposed new bridge at Beilare, O. CLEVELAND, O.—Local papers state that the Big Con-

Bellaire, O. CLEVELAND, O.-Local papers state that the Big Con-solidated St. Ry. Co. has decided to build a bridge and trestle running north from Windermere barns, abandon-ing the tracks on Lake Front Ave., East Cleveland, to connect the line on Hayden Ave. with the Euclid Ave. line. The structure will be of timber, and will cost about \$20,000.

THREE RIVERS, MICH.-J. E. Bunn, Clk., writes us that the construction of the proposed bridge at this place will not be started this year.

Will not be started this year. CHICAGO, ILL.—Bids are asked until March 28 for constructing the superstructure of a Scherzer rolling lift-bridge, to be erected over the main drainage channel. The bridge will be an eight-track structure for the use of the Pittsburg, Cincinnati, Chicago & St. Louis Ry. Co., the Chicago & Northern Pacific Ry. Co., and the Union Stock Yards & Transit Co. Wm. Boldenweck, Pres. Bd. Trustees of the Sanitary District.—The plans prepared by the sanitary district engineers for a bascule bridge at Canal St. have been approved by the city officials. KANKAKEE, ILL.—Bids are asked until March 2 for constructing a cement-concrete bridge over the Kankakee River at Washington Ave., in this city, as stated in our advertising columns. H. C. Clarke, Pres. Bd. Local Im-provements.

CHAMBERLAIN, S. DAK.—It is reported that the Sloux alls & Pacific R. R. has completed plans for a bridge at his place, apanning the Missouri River, for which bids rill be asked this spring. S. A. Teal, M. M., Missouri cluster this

Valley. DES MOINES, IA.—We are informed that bids were re-ceived on Feb. 14 for constructing the abutments of stone. brick and concrete, for the bridge at East 6th St. Geo. M. King, Des. Engr., Cy. Engr.; G. A. Eberhart and C. E. Campbell, Bd. of Pub. Wks.

LINCOLN, NEB.—An ordinance providing that the ra road companies shall maintain the O St, viaduct, and bu another structure within five years, was passed by t council on Feb. 5.

council on Feb. 5. DEVILS LAKE, N. DAK.-N. S. Russell, Des. Engr., Grand Fork, informs us that the contract for constructing the bridge over Devils Lake at Pelican Point, was let on Feb. S at \$6,000. Mr. Russell states that a contract will be let about April 1 for a 100-ft. steel pile trestle, 16 ft. wide, to be erected at Church's Ferry. E. S. Elch, County Audr.

Audr. MALVERN, ARK.—Bids are asked until March 6 for constructing the superstructure of a bridge at Rock Port on the Ouachita River, to be 510 ft. long and 16 ft. wide, with three snans of iron and steel on rock foundation. O. N. Childs, Des. Engr., St. Louis, Mo.: D. S. McCray, Comr., Malvern.

PUEBLO, COLO.—An appropriation of \$10,000 will be made by the council for the construction of a viaduct on South Main St., to conect with the mesa. REDWOOD CITY, CAL.—The contract for constructing a concrete bridge over Pilarcitas Creek, near Halt Moon Bay, has been awarded to R. C. Mattingly, San Francisco, at \$7,498.

OTTAWA, ONT.-The Ottawa Improvements Commission have decided to spend \$35,000 on a new iron bridge across the Rideau River at the foot of King St.

#### BUILDINGS.

HANOVER, N. II.-The Davison Block was destroyed by fire Feb. S. loss about \$50,000. F. W. Davison, Pres.; Dartmouth Savings Bank, owner. CAMBRIDGE, MASS.-H. B. Ball. 2 Park St., Boston. has prepared plans for a six-story brick apartment house at Massachusetta Ave. and Amberst St., for the Riverbank Court, Trust, to cost about \$750,000.-Chas. Wm. Ellot, Pres., Harvard University, writes us that the uni-versity will soon erect five buildings. Shaw & Hunnewell,

9 Park St., Boston; A. W. Longfellow, Tremont Bldg., Boston, and McKim, Mead & White, 160 Fifth Are., New York, are the architects; specifications for two huildings are completed.

REVERE, MASS.-Wm. H. Taylor, 6 Beacon St., Bos-on, has prepared plans for a new school house, to cost bout \$40,000. T. F. Coughlan, Secy. Bldg. Com. ELMWOOD, CONN.-Bids are asked until Feb. 22 for recting a two-story addition to the school house. Chss. Lord, Chn. Bidg. Com.

HARTFORD, CONN.-Bids are asked until Feh. 19 for crecting a two-story school house. H. C. Dwight, Chn.

PLANTSVILLE, CONN.-The question of erecting a ublic library building is said to be under consideration. public ALBANY, N. Y.-Wm. J. Obenaus, Arch., 48 N. Pearl St., writes us that the contract for erecting a building for Burdick & Son, equipped with elevator, gas, electricity, a 50 HP. boller and stove-making machinery, has been let to the M. L. Ryder Building Co.

BROOKLYN, N. Y .- Building No. 7 at Navy Yard was destroyed by fire Feb. 11, loss about \$100,000.

BROOKLYN, N. Y. -Jennings & Weistead, 1762 Broad-way, N.Y. aubmitted the lowest bid Feb. 13 to the depart-ment of Education, 59th St. and Park Ave. New York for erecting Public School No. 78, at Winfield, at \$66,716.

Intent of Education, 3ch St. and Park Ave., New 107k., for creating Public School No. 78, at Winfeld, at \$66,716.
HORNELLSVILLE, N. Y.-The Mayor writes us that the question of issuing bonds for a city hall, to cost about \$30,000, will be voted on March 6.
NEW YORK, N. Y.-Plans have been filed by Jas. Mc-Cutcheon, Greenwich, Conn., for a ten-story brick loft building at 3 to 7 W. 22d St., to cost about \$15,000, J. B. Baker, 154 5th Ave.; by J. Robitzek & Bro., for a two-atory brick tactory at Eastern Boulevard and Westchester Creek, to cost about \$50,000, W. C. Dickerson, Arch., 534 Willis Ave.; by W. B. Franke, owner and architect, 2291 Broadway, for a nine-story brick apartment house at 70th St. and West End Aves., to cost about \$25,000; by J. St. Kennedy, 31 Nassau St., for an eight-story brick flat at 26 and 28 West 55th St., to cost about \$25,000, J. B. Baker, Arch., 154 5th Ave.; hy Geo. W. Flagg, for five two-story dwellings at Tinton Ave., rear 168th St., to cost about \$1070, Mc. McMorrow (for a seven-story apartment house at 107th St., near Central Park West, to cost about \$130,000, Neville & Bagge, Archs., 217 W. 125th St.

NEW YORK, N. Y.-P. J. Carlin, 26 Court St., Brook-n, submitted the lowest bid to the Department of Correc-on Feb. 8 for constructing a portico to the city prison,  $e \neq 0.07$ lyn, submittion Feb. at \$10,974.

at \$10,974. NEW YORK, N. Y.—It is stated that Steffens, Searles & Hirsch, 131 Euclid Ave., Cleveland, O., will prepare plans for a 24-story office building in this city. PEEKSKILL, N. Y.—Reports state that the Depew Opera House, owned by Senator Chauncey M. Depew, was recently destroyed by fire, loss about \$75,000. SYRACUSE, N. Y.—The High School Commission has decided to ask for more money for the high school build-ing. A. Russell, 321 The Bastable, has prepared plans. TOMDEVINSUULTE N. Y. The content for creating a

TOMPKINSVILLE, N. Y.-The contract for erecting a light-house to cost about \$60,000 has been let to the West Side Foundry, Watervliet, J. F. Moore, Supt. State Bd. of Light-House Inspectors.

TROY, N. Y.-Plans have been prepared by H. L. War-ren, 9 Park St., Boston, Mass., for a chapel for the Troy Orphan Asylum on Snring Ave., to cost about \$35,000.-----W. A. Stewart, 10 First St., is receiving bids for two additional wings to the Samaritan Hospital huliding, to cost about \$50,000.

ATLANTIC CITY, N. J.—It is stated that plans are being completed for a high school building, to cost about \$100,000, and for a city hall and jail to cost about \$100,000. CHELSEA, N. J.—Hewitt Bros., Bullitt Bidg., Philadel-phia, are said to be preparing plans for the Seavlew Ho-tel, to cost about \$700,000.

MILLTOWN, N. J.—The car sheds of the Brunswick Traction Co. were destroyed by fire, 22 cars and two sweepers were hurned; loss, about \$40,000.

ORANGE, N. J.-Mr. and Mrs. Jos. W. Stickler have offered \$40,000 to the Y. M. C. A. for a new building. PASSAIC, N J.—The American Compressed Food Co. will, it is stated, erect a building to cost about \$50,000. I. W. English, Pres., Paterson.

I. W. English, Pres., Paterson. ATHENS, PA.—The question of building a new achool house is being discussed. Frank Weller, Seey. School Bd. BUTLER, PA.—We are informed that no plans have yet been prepared, but that two new achools will prob-ably be built this year. CONNELLSVILLE, PA.—Andrew Carnegie has offered \$50,000 for erecting a public library building. CONNELLSVILLE, PA.—Plans are being prepared by J. T. Steen, Smith Bidg., Pittsburg, for a five-story build-ing at Pittsburg and Main Sts., for the Title & Trust Co., of Western Pennaylvania, to cost about \$60,000, according to reports. GEEDWANTOWN PA.—The contract for erecting a 2-

GERMANTOWN, PA.-The contract for erecting a 2-story battery building for the Union Traction Co., has been let to Thos. M. Seeds, Jr., 1216 Race St., Philadel-phia.

GREENSBURG, PA.-It is stated that a court house, cost about \$500 000, will be erected under the direction

GREENSDUIT \$500 000, will be erected and to cost about \$500 000, will be erected and of the Bar Association. LANCASTER, PA.—The contract for erecting the sci-ence building for Franklin & Marshall College, has been let to G. W. Beard, 53 Court St., Reading, at about \$60, 000. Rev. J. S. Stahr, Pres.

000. Rev. J. S. Stahr, Pres. LANCASTER, PA.-H. W. Glbson, Sccy., 22 S. Queen St., writes us that the contract for erecting a 4-story Y. M. C. A. hullding, 64 x 252 ft., to cost about \$80,000, has been let to Herman Wohlsen-Plans are being prepared for a 12-story office building on Penn Ave., for H. M. Bennett, to cost about \$100,000. The con-tract for the extension to the plant of the Westinghouse Flectric & Mfg. Co. in East Pittsburg, to cost about \$400,-000, has been let to W. F. Trimble & Sons, 25 Greenwood st. Allechenv. 000, has been l St., Allegheny.

St., Allegheny. LEESBURG, PA.-W. G. Eckles. New Castle, is pre-paring plans for a Preabyterian church at Summer and one at Greenfield, to cost about \$5,000 each. He has pre-pared plans for a Preabyterian church at New Wilming-ton, to cost about \$12,000.

pared plans for a frequential charts are more and ton, to cost about \$12,000. PITTSBURG, PA.—The question of a new morgue and additions to the jail are being discussed. SCRANTON, PA.—Bids are asked until about March 15 for erecting a 7-story brick building, 80x 185 ft. for the Y. M. C. A., to cost about \$200,000, will probably have direct and indirect storm heat and electrical elevators. Seymour Davis, Arch., 907 Walnut St., Philadelphia: G. G. Mahy, Gen. Secy.—The trustees of the City Guard have decided to build an armory on Myrtle St., to cost about \$140,000. Col. H. M. Boles, Col. E. H. Ripple, Trustees. Trustees

Trustees. NEW CASTLE, DEL.—Bids are asked until March 6 for erecting a prison and workhouse and alao for a power house and underground passageway at Greenhank, as stated in our advertising columna. J. N. Gawthrop, Pres. Bd. Trustees; J. F. Ball, Seey., Wilmington.

WILMINGTON, DEL.—Reports state that the Penari vania R. R. will erect a new depot, to cost about \$100 00 WASHINGTON, D. C.—An appropriation of \$03.50 is asked for replacing the steam elevator in the Washington Monument by an electric one.—The Chief Engineering mew printing office be increased to \$2.420 000 on the of increased price of material and the estarging of the building.

RICHMOND, VA.-Albert F. Hunt, 1301 E. Main St. has prepared plans for a 3-story building at 1408 and 1438 Main St., for Chas. E. Hunter.

1438 Main St., for Chas. E. Hunter.
STATENVILLE, GA.-Bids are asked until Peb 24 for erecting a new jail. C. B. Zeigler, Ch., MOBILE, ALA.-Reports state that the Battle Hause will be altered at a cost of about \$150 (so). Address WR Will be altered at a cost of about \$150 (so). Address WR Will erect a 6-story hotel to cost about \$200 (so).
BRISTOL, TENN.-Bids are asked until March 5 to installing a wiring system in the U. S. Custom Hause 1 K. Taylor, Supv. Arch.
CANTON, O.-Bids are asked until March 5, for instal-ing an extension to the heating apparatus in the Post of CINCINNATI, O.-The trustees of the Evangeleal pa-testant Deaconess Home will. It is said, erect a bound building, to cost about \$75,000.
GLENVILLE, O.-The board of education 3.

bullding, to cost about \$75,000. It shift erect a baptal GLENVILLE. O. -The board of education has deded a erect a new school house to cost about \$30,000. TOLEDO, O. -Plans have heen filed by T H Wahridge for a 12-story office bullding at Madison and Huma Sc to cost about \$300,000, and for a Y. M. C A building on Michigan St., to cost about \$100,000. BLOOMINGTON, IND. -Wiley Hall, one of the building of the Indiana University, was destroared by fire has about \$55,000. Jos. Swain, Pres. CRAWFORDSVILLE IND.-L. A. Foots Seer of Lodge, writes us that the site has been purchased but as temple.

INDIANAPOLIS. IND.-Plans have been prepared by 1 C. Hendrickson, 120 E. Market St. for a flat house Meriden and Michigan Sts., for H. E. Mariens, to en about \$85,000.

CHICAGO, ILL.-The Lexington Ave. Raptist Church has had plans prepared for a new church building at 626 St. and Lexington Ave.

EAU CLAIRE, WIS.-An insane asylum, to co \$55,000, is to be built. C. T. Eagles, Seey, Bldg \$55,000, is to be built. C. T. Eagles, Sery. Bidg. Com MADISON, WIS.—The following contracts have bas awarded for erecting the engineering building at the Fai-versity of Wisconain: Frederickson & Sons (complete su-cept heating and electrical work). \$77,333. Mueller Finace Co.. Milwaukee (heating), \$13,372; P. F. Haine (electrical work), \$6,190. C. K. Adams, Pros MARIETTE, WIS.—It is stated that the Wisconsin Te-ephone Co. has decided to rebuild the exchange here in cost about \$33,000. PORT WASHINGTON, WIS.—Bids are asked, according to reports, until Feb. 25, for erecting a courthouse, in our about \$40,000. Fred. Graf, Jr., Arch., Matthews Edg. Milwaukee.

Milwaukee. RAYNARD, WIS.—Bids are asked until March 5 the creating a brick building, etc., on the site of the propose Indian school. W. A. Jones, Comr. WEST BEND, WIS.—Van Ryn & De Gelieke, 26 Merril Bidg., Milwaukee, have prepared plans for a new eith hil building for this city. SPENCER, IA.—Bids are asked, according to report by the County Clerk until March 15 for erecting a court house, to cost about \$50,000. Kinney & Detwiller, Artha Austin, Minn.

Austin, Minn. FORT SNELLING, MINN.—Bids are asked until Mark 1 for constructing complete one set of hospital sterards quarters. G. E. Pond, Chief Q. M. NORTH PLATTE, NEB.—Bids are asked until Feb II for erecting a school building. B. L. Robinson, Pres & Education; L. B. Isenhart, Seey. MADISON, S. DAK.—Bids are asked until March 1 is Tobin & Daiy for erecting a 2-story brick building. BUTILEP, MO.—The quartient of testing hospital for

BUTLER, MO.-The ouestion of issuing bonds for ourt house, to cost \$60,000, will be voted on at the ne

election. KANSAS CITY. MO — Reports state that the Puid Life Insurance Co. will renovate the Contropols Ho cost about \$75,000. — The New England National ha said to be planning a 7-story office building, to cost \$200,000, J. F. Downing, Pres. — Chas A Smith has pared plans for a school house at 14th and Wash Sts. to cost about \$50,000, and one at Brighton and pendence Aves., to cost about \$40,000, according to ports. ports

OAKLAND, CAL.—The council has decided the question of issuing \$250,000 in bonds for so ings and sites to the people at a bond election

Inga and sites to the people at a bond election. SAN FRANCISCO. CAL.—Hale Bros. will erect a fi-story building on Market St. near Sixth to cat the \$150,000. Reid Bros. Archs., Spreckles Bidg. PHOENIX. ARIZ.—Bids are asked until Feb. 23 for a structing additions to several buildings, and for turnle about 60,000 ft. lumber, 30,000 shingles, 20,000 lath barrels of lime, ateam pume, suction pine, lubricator, jector, belting, etc. S. M. McCowan, Supt. CHATHAM, N. B.—Bids are asked until Feb. 25 erecting a school building. G. Stothart, Secy. Bd. Sch Trustees. MEDICINE HAT. ASSA WEST. CANADA—Bida.

MEDICINE HAT. ASSA WEST. CANADA-Bids an asked by the department of public works, Ottawa, Ott until Feb. 28, for erecting a heating apparatus in 20 court house. J. R. Roy, Acting Secy., Ottawa.

#### WATER-WORKS

(For foreign water-works see under "Foreign Contrat and Export News.")

ESSEX JUNCTION, VT.-Bids are asked until Feb for constructing gravity works. J. S. Revnolds C Com., writes us that it was supposed that the htru-pipe, et., had been let, but the matter is now in dash NEEDHAM, MASS.—Bids are asked until March S to sinking a supply well, as stated in our advertising of umns. L. E. Hawes. Engr., 751 Tremont Bidg., Bassa G. A. Adams, Secy. Comrs.

G. A. Adams, Secy, Comrs. NEW HAVEN, CONN.-Local papers state that the New Hoven Water Co. has voted to increase its call stock for extending its supply to West Haven, build new reservoirs, and a tunnel to connect Lake Salicastil with Farm River, etc. An official of the commar in answer to our inquiry wrote us on Feb. 10, after the com-pany's meeting, which was on Feb. 6, that ther was nothing to report. Ell Whitney, Pres. WESTERLY, R. I.-Thos. McKenzie, of Westerly, has submitted a report for furnishing a water supply w

Watch Hill. Two projects are recommended, one to cost \$107.115, and the other to cost \$\$5,316. Address Coun-climan Sweeney. BBOOKLYN, N. Y.-The water supply committee bas agreed to report in favor of laying additional 48, 36 and 95.1n. distributing mains in Brooklyn; estimated cost, \$1,056,000.

LOSE,000. LANSINGBURG, N. Y.-We are informed that bids will be asked at once for extending the works for an addi-ional water supply. The work will consist of 4½ miles of 24n pipe, reservoir, a dam of the curved gravity type, alves, etc. Specifications may be seen at the office of Engi-eering News, 220 Broadway, New York. C. E. Hicks, Darr., Lansingburg. FERSEY CITY, N. J.-C. A. Van Keuren, Ch. Engr. 4, and Water Bd., has submitted estimates to the commis-tioners for furnishing and installing 25,800 water meters broughout the city; estimated cost, \$475,000; setting, to, \$100,000.

\$100.000

IPROFILE CONTRACT Cost, PROFECT DECKING, etc., \$100,000. IERSEY CITY, N. J.-This city voted Feb. 13 in favor et making a contract with Patrick H. Flynn, Montague Status, Brooklyn, for works to furnish a water supply of 50,000,000 gailons a day. The city may purchase the works at once on completion or 1t may take 5. 10 or 15-year options, the price to be \$7,535,000. PATERSON, N. J.-Plans for the works for the People's Water Co. are being prepared, but it is not expected that the preliminary work will be completed until spring. PERTH AMBOT, N. J.-Councilmen Campbell, Johan-sen and Gerns have been appointed a committee to secure optiona on a site for a new reservoir. The contract for furnishing 255 lengths of 8-in, water pipe, special cast-ings, etc., has been let to Fox & Engel, 253 Broadway, New York, as noted under Contract Prices. Jos. G. Burns, Supt. MASONTOWN, PA.-Bids for constructing works to cost

MASONTOWN, PA.—Bids for constructing works to cost 250,000 are reported to bave been received by the Huron Water Co

Water Co. NORRISTOWN, PA.—The Pure Water Co. of Pennsyl-vania will apply for a charter Feb. 23 to build works here. Wm. H. Richardson, A. D. Hallman and J. F. Floney are interested.

SHAMOKIN, PA.—The Montandon Water Co. has been noorporated with a capital of \$30,000 by M. H. Culp, D. C. Kaseman and H. W. Shuman.

LAUREL, MD.-Edward Phelps, Mayor, writes us that the question of works will be voted upon April 2; esti-mated cost, about \$30,000.

the question of works will be voted upon April 2; esti-mated cost, about \$30,000. BLACKSTONE, VA.-W. A. Laud, Mayor, writes us that a committee has been appointed to secure informa-tion and cost of building works. If the works can be-built for \$10,000 the bonds will probably be voted. A stand-pipe will be required. Population, 1,000. DOUGLAS, GA.-W. W. McDonaid, Mayor, writes us that hids will probably be wanted about Marcb 20 for works and an electric plant to cost \$2,500. APALACHICOLA, FLA.-Bids are reported as being considered by the Apalachicala Water-Works Co. for building works. J. T. McGinnlss, Engr. BOYCE, LA.-Bids are ssked by J. E. Blackburn, Boyce, for furnishing the materials and for constructing works and an ice-making plant, combined or separate. Pay-ment to be made in 15-year 8% bonds. Mr. Boyce has a 25-year franchise and 5-mile tax voted for ten years. YAZOO CITY, MISS.-H. B. Smith, Secy. Michigan Pipe Co., Bay City, Micb., writes us that the Yazoo Im-provement Co. has succeeded in securing a good flow of water from artesian wells, and 500,000 gallons are now being obtained from a 6-in. well. Three additional wells are to be driven at once.

are to be driven at once. PULASKI, TENN.—The Pulaski Water Co. is reported to have let the contract at about \$11,000 for boring an artesian well, covering the reservoir, etc., to the Pneu-matic Engineering Co., of New York, who has sublet a portion of the work to Ervin & Canfield, of St. Louis. DAYTON, O.—The water-works trustees have saked for an appropriation for additional mains, equipment, etc. CAPCWIACE IND. We are informed that the head of

CARTHAGE, IND .- We are informed that the board of rustees are considering the question of works and an

TERRE HAUTE, IND.—The council has adopted layor Steegs recommendation that efforts he made to coure the passage of a law allowing the city to have unicipal works. Mayor

municipsi works.
FLINT, MICH.—Arbitrators have been appointed to fix a value on the works and electric plant which the city wonts to purchase. H. A. Crawford, Mayor.
BELVIDERE, ILL.—Bids are asked until Feb. 26 for sinking an S-in. well to a depth of 1,500 ft. Prices should be given for the price per foot, for 1,300 ft., 1,500 ft., or more, if required. Wm. Marean, Cy. Engr.; D. E. Foote, Chn. Com.

Chn. Com. EVANSTON, ILL.-A postal card vote is proposed to secure the sentiment of the people on a plan for a water filter plant. The installation of a filter in every house, fat, school building and public building in Evanston was advised by the water committee. The city will rent the filters for 12 years at a cost of \$20,000 per year, and this is to be paid out of the water rentals. Such an arrange-ment would be satisfactory to a filter plate concern of St. Louis. The fact that Evanston uses 5,000,000 gallona of water a day and that less than one-bail of 1% of this quantity is used for domestic purposes prevented the con-sideration of a municipal filtering scheme. Address Al-derman W. N. Green. BURLINGTON, IA.-Tbe committee has submitted its

BURLINGTON, IA.—The committee has submitted its report on the municipal ownership of the works. The committee suggests that immediate steps be taken to ad-just the differences between the water company and the city. J. A. Klepplach, Chn. DUBUQUE, IA.—C. W. Berg, Mayor, writes us that nothing regarding the ownership of the works can be done until ster the election on Feb. 28, when the question will be voted upon.

MINNEAPOLIS, MINN.—Bids are asked until Feb. 23 for furnishing corporation cocks for use in 1900. L A. Lydiard, Cy. Clk.; G. W. Sublette, Cy. Engr.—The council bas directed the city engineer to prepare plans and estimates for an additional pumping station and fiter beds. If electric power is to be used a new dam would be constructed across the Mississhph River at Coon Creek by parties owning the privilege. EUREKA, S. DAK.—It is stated that this place is con-sidering the question of extending its works. CARTHAGE, MO.—The works have been sold to parties tepresented by W. D. Boyer, of Scranton, Pa., according to reports. Certain improvements will be made. O. M. Lance, Supt. STILLWATER OKLA. TER.—W. R. McGeorge Mayor

Lance, Supt. STILLWATER, OKLA. TER.-W. R. McGeorge, Mayor, writes us that an election will be beld March 13 to vote on the question of issuing \$30,000 of 20-year 0% bonds for works. It is likely that an electric plant will be put in at an additional cost of \$7,000. DENVER, COLO.-Bids are asked until Feb. 23 for the purchase of \$200,000 of 34% water bonds, being a part of the \$4,700,000 of bonds recently authorized. J. W. Shackleford, Pres. Bd. Pub. Wks.

TRINIDAD, COLO.-W. E. Condon, Civil Engr., writes us that the city is locating a site for an auxiliary reser-volr to he built this spring. C. H. Knickerbocker, Cy. Engr.

BAKER CITY, ORE.—This place has voted to issue \$100,000 in bonds to purchase Elk Creek water right and to lay ten miles of mains to this city.

SONOMA, CAL.-It is stated that an election will soon be held to vote on the question of issuing \$25,000 in bonds for municipal works. R. A. Poppe, Cy. Cik.

be head to vote on the question of issuing estivation in bonds for municipal works. R. A. Poppe, CY. Clk. OGDEN, UTAH.—The question of selling the works of the Ogden Water Co. to local parties for \$450,000 is be-ing considered. David Eccles and Thos. D. Dee, Ogden, and J. P. Smith, of Baltimore, Md., are Interested. SALT LAKE CITY, UTAH.—The committee has rec-ommended the mayor be authorized to purchase the water rights at Parley's Canyon; that bids be asked for com-pleting the 13th East St. reservoir, and also for isying a 16-in. water main from 5tb South St. to Parley's con-duit, and other mains; that the main from City Creek be enlarged; that City Engineer Kelsey be authorized to prepare plans for enlarging and extending the East Jor-dan Canal, etc. All this work is estimated to cost \$450,-000.—Plans for a water supply for the mining camps of Deer Lodge, Nev., and Stateline and Pikes, in Lincoin county, Utah, have heen prepared; estimated cost, \$100,-000. About 20 miles of pipe will be wanted. Judge Henry Rives, a mining storney, is reported as intereated. TORONTO, ONT.—In the water-works department the

Rives, a mining storney, is reported as interested. TORONTO, ONT.-In the water-works department the engineer has asked for \$1,030,929, three-fourths of which is entirely new expenditure, as sgainst \$154,572 expended last year. The great items of increase are construction specials, a few being: Waste prevention, \$10,000; concre-ting, Rosehill reservoir, \$20,000; 10,000,000,egalion engine and boilers, main pumping station, \$55,000; 5,000,000-galion engine and boilers, high-level pumping station, \$25,000; improvement to water supply tunnel scheme, tunnel, including screen, vsive chambers, etc., \$25,000; 6-ft, steel pipe from short crib to opposite Island basin, including necessary connections, \$85,500; 6-ft, steel pipe from opposite Island basin to tunnel shaft, including 5-ft, connection to existing 5-ft, steel pipe, \$96,250; 36-in, main on Bathburst, Dupont, Yonge Sta, from College St. to Rosehill reservoir, \$176,536; 24-in, main on East Front St., from Church to George St., 1,050 ft, \$9,924.

#### IRRIGATION.

BIG STONE, S. DAK.-It is stated that E. M. Bennett is interested in the plan to convert Big Stone and Traverse Lakes into reservoirs.

NORTH YAKIMA, WASH.-W. T. Clark and G. S. Rankin will, it is said, huild a canal, 24 miles long, ir-rigating about 5,500 acres of land, to cost about \$50,000. PORTLAND, ORE.-The Southern Oregon High Line Ditch Co. will soon ask for hids for constructing a ditch. 93 miles long, according to reports.

SAN FRANCISCO, CAL.-The California Water & Forest ssociation will soon take steps toward the storage of the ood waters in the state.

ood waters in the state. NEW COMPANIES.—Oregon Land. Irrigation & Power to. Pueblo, Colo.; \$300,000; H. C. Gibbons, H. A. Case. Bijou Irrigation Co., Greeley, Colo.; \$200,000; J. Work, A. Camphell, Greeley. Forbanana Water Storage & Supply Co., Houser Mills. to: \$1,000; W. A. Erdman, A. R. J. Wallace, Strouds-

Pa.; \$1,000; W. A. Erdman, A. R. J. Wallace, Stroudaburg.
Ploneer Water Co. of Kern County, San Francisco, Cal.;
\$25,000; C. H. Philips, J. W. Wright.
Omer Canal & Reservoir Co., Fowler, Colo.;
\$20,000;
G. P. Davenport, C. A. Watson.
Greeley & Loveland Irrigation Co., Loveland, Colo.;
\$166,800; combining the New Loveland & Greeley Irrigation & Land Co.

#### SEWERAGE.

RIDGEFIELD. CONN.-T. H. McKenzle, Engr. State Board of Health. Hartford, has been engaged to prepare plans for a system.

plans for a system. AMSTERDAM, N. Y.—Bids are asked until March 1 for constructing about 875 ft. of 30-in. plpe sewer, as stated in our advertising columns. F. E. Crane, Supt.

in our advertising columns. F. E. Crane, Supt. UTICA. N. Y.-Plans for 15 and 12-ln. pipe sewers in certain streets in Ward 7 are being prepared. Address City Surveyor Schultze. ATLANTIC CITY. N. I.-We are informed that the Prindle Engineering Co., 120 Liberty St., New York, has received the contract for the numping machinery for the Atlantic City Sewerage Co., which is controlled by Wal-lace & Robinson. 122 East 234 St., New York, it is very likely that further extensions to the plant will be made next year. Reginald P. Bolton, Engr., 35 Nassau St., New York.

COLLINGSWOOD, N. J.—The Collingswood Sewerage Co. has been granted a franchise for a system. The Had-don Sewerage Co. also applied for a franchise, but it was not considered by the council, according to reports.

SEA ISLE CITY. N. J.—The council has granted a fran chise to the Sea Isle City Sewerage Co., organized by J. J. Burleigh, Camden, and others. The company will ex pend about \$10,000 on its system.

OIL CITY. PA.-Bids are asked until Feb. 26 for build-ing certain sewers and for paving in three streets, as stated in our advertising columns. G. F. Roess, Cy. Engr.: S. W. Barnhart, Controller.

stated In our advertising columns. G. F. Roess, Cy. Engr.: S. W. Barnhart, Controller. WAYCROSS, G. .-The Mayor writes us that the pro-nosed system will be hullt under the direction of the Water-Works and Sanitary Committee, but no contracts have yet heen let. Waring, Chapman & Farquhar, Engrs.. 874 Broadway, New York. NEWBERRY, S. C.-J. C. Goggans, Cik. and Treas.. writes us that the matter of putting in a system has not yet taken definite steps. OXFORD, MISS.-W. B. Cowan, Mayor, writes us that \$20,000 has been voted for severs. COLUMBUS, O.-Mayor Swartz has prepared a bill for a \$325,000 bond issue for the new system, which will be yoted upon by the citizens. It is intended to locate the sewage disnosal plant on the south side. The question of issuing \$350,000 in bonds for a new market house is being considered. Alvord & Shleids, Consult, Engrs., The Rook-ery, Chicago. O. .-Plans have been prepared for \$43,761 worth of sewers so far this year. One of these will be amain sewer in Treadwell and Wheeling Sts. Legislation for other sewer work projected. WINTON PLACE, O.-Louis G. Dittol, Cik., writes us that the proposition to issue \$55,000 in honds for a sewer worth of the proposition to issue \$55,000 in honds for a sewer source of the source is solar.

to be other sewer work projected. WINTON PLACE, O.-Louis G. Dittol. Clk., writes us that the proposition to issue \$55,000 In honds for sewers was defeated at the recent election. CRAWFORDSVILLE. IND.-This town will build about one mile of sewers and lay shout two miles of brick or asphalt paving this season. T. Hoffman, Cy. Engr., writes us that the contract for constructing sewers has been let to J. P. Thompson & Co., Greensburg, Ind., at \$43,709. The bids which were received on Feb. 9 will likely be published next week.

INDIANAPOLIS, IND.—The board of works proposes to build a main sewer in East Michigan St., from the Belt R. R. to the Pogues Run intercepting sewer. The sewer will drain 620 acres and also Crooked Creek, and will cost \$00,000. The total length will be 12,122 ft., and of this 5,220 ft. will be 8-ft, circular brick.

\$90,000. The total length will be 12,122 ft., and of this 5,220 ft. will be S-ft. circular brick.
GRAND RAPIDS. MICH --Bids are asked until 2.30 p. m. Feb. 16 for constructing 4,800 ft. of 44 to 30-in. hrick and 22 and 15-in. pipe severs in Godfrey Ave.; check, 5% of bid; estimated cost, \$17,000. Bids for a sever in Logar St. were opened Feb. 9. F. A. Twamiley, Cik.
PARIS, ILL.-The question of building the system at an early date is being considered; estimated eost, \$150,000. Address Mayor Baum and City Engineer Fisher.
PIPESTONE. MINN.-Bids are asked until March 7 for furnishing the materials and for constructing a system at the Indian school. W. A. Jones, Indian Comr., Washington, D. C.; D. S. Harris, Supt.
DENVER, COLO.-The beard of public works has approved the estimate of \$29,000 for the Capitol Hill sever. MONTE VISTA, COLO.-H. W. Horn, Mayor, writes us that the city is figuring on putting in a system as well as an electric plant.
EMERYVILLE, CAL.-Plans have been prepared for 20,000 ft. of 6-in. to 2-ft. severs to cost about \$10,000.
PASADENA, CAL.-Herman Dyer, Cy, Clk., writes us that the council is discussing the question of holding an election for severing the city. W. B. Clapp, Cy. Engr. TRURO, N. S.-F. C. Coffin, 53 State St., Boston, is reported as preparing plans for a system.

SYDNEY, N. S.-Warlng, Chapman & Farquhar, 874 Broadway, New York, are to make examinations, plans, etc., for sewerage of townsite of the Dominion from & Steel Co., Ltd.

Co., Ltd. TORONTO, ONT.—The Committee on Works has recom-mended that the sum of \$7,000 be appropriated for secur-ing information about sewage disposal. Further appropri-ations will be: macadam. \$8,000; cedar block. \$7,000; side-walks, \$18,000; street cleaning, \$40,000; seavenging, \$65, 000; street watering, \$25,000; maintenance and repairs to sewars, \$15,000; cleaning and flushing, \$10,000; tools and miscellancous, \$5,000; repairs to bridges, \$9,300; King St. suhway, \$2,500; sand pump, \$6,000; level crossings, \$5,000

#### GARBAGE DISPOSAL-STREET CLEANING

GARBAGE DISPOSAL-STREET CLEANING
 WATERBURY, CONN.-The Board of Health is considering the question of building a crematory, to cost about \$15,000. Dr. C. W. Frost, Health Inspector.
 ROCHESTER, N. Y.-It is stated that the board of contract is considering the question of advertising for bids for the collection of garhage, and to resclid the contract with Thos. Holahan on Feb. 28.
 COASVILLE, PA.-The health officers have, it is said advised the erection of a crematory.
 MALTIMORE, MD.-Street Commissioner Bye has recommended that the block system be substituted for the property system of street cleaning.
 WASHINGTON, D. C.-Dr. Wm. C. Woodward, Health officer, writes us that it is likely that the bill will pass autorizing the district commissioners to make a contract of the collection and disnosal of garhage and dead space. Ridders will submit their own schemes for disposal. The contract will be for five years from July 1.
 CHICAGO, ILL.-Bids were to be received Feb. 14 for the orlvilege of picking over and sorting the city's refuse.
 JOLIET, ILL.-The councli has refected the bids for creating the proposed crematory, and has directed the city is refuse and approaches, but without buildings.
 MLWAUKEE, WIS.-The question of huliding a crematory is reported as abourd of public works are in favor of first sophila g a system of cremation and then calling the city's refuse.
 MINNEAPOLIS, MINN.-Pians, bids, etc., are asked

Norton, Health Committee deciding to let the acavengers carry the refuse beyond the clique to the acavengers.

#### STREETS AND ROADS.

BUFFALO, N. Y.-Bids are asked until Feb. 21 for nav-ing, renaving and improving several streets. R. G. Par-sons, Seev, Bd. Pub. Wiss.---The following were the lowest hids received by the Board of Public Works, Feb. 8, for asphalt paving: Barber Asphalt Paving Co., Ellicott Sq. Bidg., Orton Pl, \$3,548; Clinton St., \$7,457; Kerstone St., \$22,345; Lewis St., \$5,072; Kerstohum Ave., \$3,239; Wells St., \$4,231; Michigan St., \$12,841; Lock St., \$1,951, American Contracting Co., Trowbridge St., \$14,750; Dole St., \$8,100; Prenatt St., \$3,130, German Rock, Asphalt & Cement Co., D. S. Morgan Bidg., Marion Ave., \$6,298. NEW YORK, N. Y.-Bida are asked by the Department of Highways, 2 Park Row, until Feb. 21 for paving a portions of Sist St. with asphalt, for regulating and paving portions of St. St. with asphalt, for separation and paving portions of west 136th St., West 57th St. and 12th Ave., and for paving a portion of West 139th St. with granite. WELLSVILLE, N. Y.-Bids are asked until Feb. 26 for

WELLSVILLE, N. Y.-Bids are asked until Feb. 26 for paving Main St. with brick, as stated in our sdvertising columns; check, \$1,000. Grant Duke, Pres.; F. A. Dun-ham, Engr. in charge.

PATERSON, N. J.-The council has passed an ordinance providing for an issue of \$150,000 in honds for permanent street improvements.

providing for an issue of \$150,000 in honds for permanent street improvements.
PLAINFIELD, N. J.-A. J. Garett. Cy. Surv. and St. Comr., writes us that there will prohably be the usual amount of macadamizing done this year and some bricky or asphalt, few, if any, sewers, and no bridges.
OIL CITY, PA.-Bids are asked until Feb. 26 for street ing columns. S. W. Barnhart, Controller.
ALLEGHENY, PA.-D. L. Fulton, Supt. Highways and Sewers, writes us that the following contracts were let Feb. 6 for paving and sewers; all local bilders: Thos. Prosser, isteral sewer on Clayton Ave., \$615; from Forsythe to Eckert Sts., \$\$3.56; on Morrison Ave., \$1.310. Cronin & O'Herron, lateral sewer on Oble-St., \$005; from Charles St. to Chester Ave., \$1.110; on Chester Ave., \$2.570; on Trwin Ave., \$805; for Duquesen Ave., \$4.065; on Richmond and Richards Sts., \$1,140; 3-ft. msin sewer or Woods Run Ave., \$95.75; 24-in. main newer or Shady Ave., \$95.75; 24-in. Main newer or Shady Ave., \$95.75; 24-in. Main sewer on Shady Ave., \$95.75; 24-in. This sewer on Shady Ave., \$445; grading Kutner) Alley, \$195. J. Carson & Co., grading Forsythe St., \$3,607. Jas. McAfee & Co. grading Valley St., \$8,400; grading and paving with briel

t the Pennsyl. about \$190.000 of \$28.500 in f Engineer ha 000 000 for th arging of the

ng at 1436 and 11 Feb. 24, for

Battle Hons Address W-Glennon & Co

I March 5 for tom House J in the Post of

rect a hospital

has decided to

H Walbridz nd Huron Sis A building on of the buildings of by fire: has

a flat house at Martens, to ros

Baptist Church building at 624

to cost abou Bldg. Com

ng at the Uni Nueller Fur-P. F. Harloff res.

Wisconsin Tel-hange here in

asked, according urthouse, to cost Matthews Bidg.

til March 8 for of the proposed

lieke, 36 Merrill r a new city hall

ding to reports erecting a court Detwiler, Archa

ked until March ospital steward's

ntil March 1 by k building

ng bonds for a 1 on at the next

Hotel

cording to re

cided to submit

fill erect a fire-t. to cost about ldg.

Feb. 23 for con-d for furnishing 20,000 lath 100 , lubricator, in-

til Feb. 28 fer ecy. Bd. School ADA -Bids an

Ottawa. Ont. paratus in the tawa.

oreign Contract

the hydran ow in doubt il March & for advertising col-Bidg., Boston

that the ease lis ca laven, buil ake Salton

state to

after the com-Westerly, has Hughes Aliey, \$395. Slellian Asphalt Paving Co., grading, curbing and asphalting Termon Ave., \$28,108. For grad-ing, paving and curbing O'Hern St. Keeling & Rigge sub-mitted the lowest bid on ligonier block at \$753, and H. C. Howard was lowest on brick at \$678.

54

PITTSBURG, PA.-The council has passed an ordinance uthorizing the grading of Bennett St. and the paving of Diana Alley.

Diana Alley. NEWPORT NEWS, VA.—Bids are asked until Feb. 27. postponed from Feb. 19. for paving several streets, as stated in our advertising columns. J. F. Hughes, Chn. St. Com.; J. A. Massle, CY. Cik. Postponed because speci-fications were not printed in time for proper distribution. PARKERSBURG. W. VA.—A special election will be held March 13 to vote on the issue of \$300,000 in honds for brick and macadam paving in the county. C. H. Tur-ner, Mayor.

May

COLUMBUS, GA.—Mayor Chappell writes us that no paving contracts will be let at present, the hoard will probably appropriate \$15,000 or \$20,000 for paving during 1000.

TAMPA, FLA.-It is stated that the question of paving Water St. is being discussed.

NEW ORLEANS, LA.-Bids are asked until Feb. 19 for paving three streets with blocks, one with asnhalt and one for laying a hick sidewalk on one street. W. S. Douglas, Comptroller.

soughas, compression  $\mathcal{R}_{1}$ ,  $\mathcal{R}_{2}$ ,  $\mathcal{R}_{2$ 

curbing and gutter in Fairfield Ave. AKRON. O.-Bids are asked until March 10 for laying about 35.000 sq. yds. of sheet or block asphalt, to cost about \$135.000. J. W. Payne, Cy. Engr. CINCINNATI, O.-Bids are asked until Feb. 21, accord-ing to reports, for grading and macadamizing a portion of McMickin Ave. C. H. Spellmire, Clk. Bd. Cy. Affairs.--T. B. Punshon, Ch. Engr., writes us that John Suillyan submitted the lowest hid Feb 7 for laying about 1,000 lin. ft. of macadam paying in Delta Ave.

HYDE PARK, O.-A special election will be held Feb 8 to vote on the question of Issuing \$115,000 in bonds

for street improvements. LAKEWOOD, O.—Bids are asked until Feb. 19 for im-proving the boulevard, as follows: 185,000 cu. yds. ex-cavating, 45,000 cu. yds. excavating handled twice, 22,000 cu. yds. excavating in trench, 37,600 lin. ft. cuching, 350 cu. yds. brick masoury, 1,200 lin. ft. 15 to 30-in. sewer pipe laid. John French, Cy. Ck. NORWOOD, O.—A special election will be held Feb. 19 to vote on the question of issuing \$151,000 in honds for street and sewer work, etc. J. Darden Merce and the fiber for CODUNITY D. O. Che.

street and sewer work, etc. SPRINGFIELD, O.-Chas, J. Bowlen, Mayor, writes us that the question of paving will be taken up by the Board of Public Affairs about Feb. 22; contract will be let in about 90 days; one local sewer will be constructed in about 60 days. Wm. Sharon, Engr.

about 60 daya. Wm. Sharon, Engr. TOLEDO, O.—The following is a list of lowest bids re-elved by the board for paving: East Broadway, Garrigan Bros., block \$20,714, asobalt \$24,739; J. W. McMahon, Athens brick \$20,240, brown granites \$20,355. Trimble block \$20,460, Trinidad asobalt \$27,804; G. H. Bodette, Buckeye brick \$20,533, Logan brick \$19,154. Michigan St., G. H. Bodette, Buckeye block \$2,397. Metropolitan block \$2,424. Resewood Ave., Garrigan Bros., brick \$10,995. CRAWFORDSVILLE, IND.—F. Hoffman, Cy. Engr., writes us that the city will probably lay about two miles of brick or asphalt paving and one mile of brick sewers. MICUIGAN CITY IND.—Bids are asked according to

MICHIGAN CITY, IND.—Bids are asked, according ports, until Feb. 26 for paving Wabash St. E. J. Hei

Cy Clk

DETROIT, MICH.-The Board of Public Works has asked for an appropriation of \$300,000 for paving for this

MISKEGON, MICH.-C. S. Gamble, Cy. Engr., writes s that the people may vote on an issue of about \$200,000 or repaying streets with brick.

ELGIN. ILL.-Wm. F. Sylla writea us the contract for paving Chicago St. with brick has been let to A. E. Rut-ledge, of Rockland, work is to start April 15.

WAUKEGAN, ILL.-The council has taken preliminary steps towards laving about two miles of macadam, to cost about \$100,000.

CLAY CENTER, NEB.-Blds are asked, according to ports until Feb. 15 for grading for 1900. Geo. Mitchell, County Cik

KANSAS CITY, MO .- Blds are asked until Feb. 21 for oustructing several street improvements. H. A. Wise, Cy Eng

REDONDO, CAL.-S. D. Barkley, Clk., writes us that an election will be held about March 5 to vote on the issue of \$40,000 for sidewalks and sewers.

of \$40,000 for aldewalks and sewers. STOCKTON, CAL.—The Board of Public Works has recommended the macadamizing of several atreets. BRANDFORD, ONT.—Bids are asked until March 1 for a 12 and 15-ton double engine, road roller, R. Wadding-ton, Seey, Bd. Pub. Wks.; H. F. Leonard, Cik.

#### MANUFACTURING PLANTS.

MANUFACTURING PLANTS. (For foreign manufacturing plants see under "Foreign Contracts and Exnort News.") FORESTVILLE. CONN.-E. A. Freeman. Pres., informs us that the contract for constructing the factory building for the E. N. Welch Mfe. Co., manufacturers of clocks, has been awarded to R. H. Hibhard. New Britain. at \$50, 000. Theo. B. Peck, Arch., Waterbury. Contracts for the equipment were divided between the Atlas Engine Co., Indianapolis, Ind., and the General Electric Co., Sche-nectady. N. Y.

nectady, N. Y. NORWICH, CONN.-Local papers state that the factory of the Honkins & Allen Arms Co., which was recently destroyed by fire, will be rebuilt. NEW YORK, N. Y.-Press reports state that the con-solidation of the Troy Steel Works, the Albany Iron Works, the Bessemer Steel Works, the Rensselaer Iron Works, and Witherbee. Sherman & Co., under one com-pany capitalized at \$17,000,000, is a project of J. P. Mor-gan & Co. It is proposed to double the output of these concerns, which now aggregates 250,000 tons of steel and iron per annum. concerns, which iron per annum.

MCKEESPORT, PA.—The contract for erecting the plant of the National Tube Co. near this place, to cost about \$300,000, will be let in March, according to reports. MONACA, PA.—It is reported that the Pittaburg Opal-ite Tile Co. will erect large works at this place to cost about \$40,000.

NEW CASTLE. PA.-The American Tinplate Co. is re-orted to be considering the proposition of erecting a mili

at this place. PHILADELPHIA, PA.-It is reported that William Wharton, Jr., & Co., will erect a large addition to their factory at 25th and Elisworth Sits. The structure will be 115 x 49 ft., of brick and steel. PITTSBURG, PA.-Local papers report that a \$5,000,000 ateel plant will probably be erected by John Walker, Henry Phipps, Jr., and others, in the Monongahela Val-ley. A alte of 350 acres of land has been purchased near Elizabeth for the plant.

READING, PA.-Plans have been completed by the Philadelphia & Reading R. R. Co. for a locomotive build-ing plant, to be erected at this place, to cost about \$1,-000.000. Wilson Bros. & Co., Archs. 1036 Drexel Bldg. Philadelphia. L. B. Paxson, Consulting Mech. Engr. NORFOLK, VA.-The Norfolk Shiphuliding & Dry-Dock Co. has been incorporated to erect a shiphulding nlant and a dry-dock at this place. Capital stock \$500.000. Andre Motter, Pres.; H. W. Anderson, Vice-Pres., Exe-ter Mass

C and a Andre Mo

ter, Mass. WILLIAMSBURG, VA.—A committee comnosed of J. B. Soencer, L. W. Lane, Jr., and H. N. Phillips has been appointed by the Business Men's Association to investi-gate the advisability of erecting a \$100,000 knitting mill to employ 300 bands.

WTLLIAMSBURG VA -- It is reported that a knitting ill is to be erected in this place. A. M. Bowling, Balti-ore, Md., is the chief promoter.

HENDRICKSON, N. C.-Reports state that a cotton mill is proposed for this place to cost about \$150.000.

KERSHAW, N.C.-This town is reported to have o tered to raise \$75,000 if J. R. Barron. Rock Hill, wi contribute a like amount to build a \$150,000 cotton mill fer LEXINGTON, N. C .- It is renorted that \$100.000 oen subscribed towards the proposed \$200.000 co on has cotton been subscribed to mill for this place.

RALEIGH. N. C.-The Harrlett Cotton Mills Hender-on, were incorporated on Feb. 9, with \$150,000 capital tock, and will soon begin the construction of a plant. son. stock.

SALISRURY, N. C -- We are informed that the contract for a plant of the Salishury Hoslery Milla has been let and the equipment purchased.

CHARLESTON S. C -- It is reported that Armour & Co. has purchased valuable phosphate lands near Charleston, where a \$1.000,000 fertilizer plant will be erected.

LEESVILLE, S. C.-A commany is being organized at his place to build and operate a \$100,000 cotton mill. b. M. Crossman is the chief projector. this D.

CEDARTOWN, GA.-It is stated that a \$100,000 mill will probably be erected in this town. L. S. Ledbetter, Mayor, may be addressed.

GENEVA. GA.-Plans are being prenared, according to remorts, for a cotton mill, to be erected here, for which \$40,000 has been aubscribed.

ENSLEY. ALA.—Reports state that the Tennessee Coal Iron & R. R. Co. pronoses to erect a steel rall mill here. adjacent to its steel plant and wire rod mill.

MOBILE, ALA -Local papers state that a site has been coured for the Barker cotton mill, which will be crected his year. About \$213,000 has already been subscribed. this year.

BOYCE, LA .- Bida are asked for the erection of an ice plant and a system of water-works, by J. E. Blackburn. CHATTANOGGA. TENN.—The chamber of commerce on Jan. 25 decided to build a \$100,000 cotton mill. for which \$10,000 has already heen subscribed. A committee commosed of W. B. Mitchell, John C. Griffin and J. A. Patten has been appointed to investigate the matter.

HUMBOLDT, TENN.—Bids are asked for plans, for con-atructing, and for equipping a cotion mill to be erected bere, work to commence about March 1. Address H. C. Burnett, Pacific Bidg., Washington, D. C.

Burnett, Pacific Bldz., Washington, D. C. ALLIANCE, O.—The Morgan Engineering Co. has been incorporated with \$3,000,000 capital stock, to build a plant at this place, to manufacture hydraulic, electric, pneumatic, gas and fire machinery. STEUEENVILLE, O.—The American Axe & Tool Co. Is said to be negotiating for the purchase of a tract of land on the Ohlo River, near this place, for the purpose of consolidating its plant.

BRISTOL. IND.-The Monolith Cement Co. has been hoorporated with \$2,500,000 capital stock, and will erect a plant here

FORT WORTH, TEX.-Talbot O. Baterman, Secy. Bd. f Trade, Ft. Worth, writes us that a one-million dollar otton mill is proposed for this place, but nothing definite as heen done. of

nas been done. HENDERSON, TEX.-We are informed that \$60,000 has been subscribed toward the proposed \$200,000 cotton mill to be erected by the people of Rusk county. A charter will be applied for this month. SMITHVILLE, TEX.--It is reported that hids are want-ed for erecting a 25-ton oil mill for the Smithville Oil Mill Co., which has applied for a charter. Emil Buescher, Gen. Mgr.

Gen. Mgr. TORONTO. ONT.—Reports state that the Canada Steel Co., recently incorporated with \$18,000,000, will soon make application for a charter. The company proposes to erect works at Welland and Port Arthur. Ont. The ore for the smelters will be obtained from the West Hull and Lake Superior mines. F. E. Hinckley, New York, N. Y.: A. C. Pew, Toronto, Ont., and H. J. Hardbecke, Kanka-kee, III, are interested.

MONTREAL, QUE.-The Pittaburg Reduction Co., Pittaburg, Pa., it is said, will erect a large plant here.

#### GAS PLANTS.

### NEWBURYPORT, MASS.-The Newburyport Gas Co. will erect a new gas holder, capacity about 60,000 cu. ft., to cost about \$25,000.

ALBANY, N. Y.-The N. Y. C. & H. R. R. R. Co. will rect a new Pintsch gas plant here shortly. F. H. Harring-

ton, Supt.
MOORESTOWN, N. J.—The River Shore Gas Co., of Riverton, has asked for permission to extend its lines to this city.—The American Investment Co., owning plants at Mt. Holly, Moorestown. Merchantville and Had-donfield, has applied for a franchise.
DAVENPORT, I.A.—G. T. Baker, Mavor, writes us that the People's Light Co. will erect an entire new gas plant. The order for 800 tons of 4-in. to 12-in. pipe has just been let. A. W. Vanderveer, Pres.
KICKAPOO CITY, KAN.—Bids are asked until Feb. 4 for erecting a gasoline gas plant at the Kickanoo reserva-tion. W. A. Jones, Comr. Indian Affairs, Washington. LOS ANGELES, CAL.—G. W. Frame and G. A. F. Wells.

tion. W. A. Jones, Comr. Indian Affairs, Washington. LOS ANGELES, CAL.-G. W. Frame and G. A. F. Wells. Los Angeles, and J. D. Jones, Whittler, have purchased 20 acres of land on Vermont Ave., and will form a com-pany, with a capital of \$100,000, and will sink five wells. It is stated that the same parties will develop S0 acres near Newhall.

NEW COMPANIES.-Cleveland Gas & Illuminating Co., Cleveland, O.; \$10,000; S. Stewart, C. A. Chapman.

#### MISCELLANEOUS CONTRACTS.

PARK.-New York, N. Y.-The Park Board will build a park at Ave A and 23d to 24th St. PARKS.-Tacoma, Wash.-The Mayor writes us that nothing has yet heen done toward parks in the North End.

TELEGRAPH.--New York, N. Y.--The Western Union Telegraph Co. will issue \$20,000,000 in 41/2% honds for im-provements, etc.

PARK.-Topeka, Kan.-The city will huild a park on the ank of the Missouri River, to cost about \$10,000, and vill want a steam roller and a grader. P. L. Wise, Cy. will Engr

Vol. XLIII. No. 7.

Vol. XLIII. No. 7.
WHARF.-Philadelphia. Pa.-The Terminal Land Co. Nill, it is stated, huild a wharf and shed on the Delaware structure, to cost ahout \$250,000.
TELEPHONE.-Cheyenne, Wyo.-The Bell Telephone Co. Nill spend about \$100,000 in extending its lines into Colo.
ORE DOCKS.-Fairport, O.-Reports state that M. A. Anna & Co., Cleveland, have purchased land and will erect several large ore dock.
DRK WORK.-Philadelphia, Pa.-Bids are asked until for combeting lincoln Ave. Drive. In Fairmour, and the feel field of the several large ore dock.
MRROVEMENT BONDS.-Wyoming, O.-A special elevel in onds for local improvements.
MRROVEMENT BONDS.-Wyoming, O.-A special elevel in onds for local improvements.
MRROVEMENT BONDS.-Cleveland, O.-The cliv new 20000.
Jas Ritchle, Cy. Engl.
MRK.-Detrolt, Mich.-It is stated that the Park Board state alevel a park site at Belle Isle and will erect as a selected a park site at Belle Isle and will erect and the Brishend Control of the seven of the seven seven.
MARK.-Detrolt, Mich.-It is stated that the Park Board state. Ch. Bureau Yards and Docks.
CANAL WORK.-MUTRY, N. Y.-The contract for work of the Erect and to cost shout \$200,000. Jas schemer \$200,000. As seven to the seven com.
MARK WORK.-Mutray, N. Y.-The contract for work of the Erect and to cost shout \$200,000. As a state of \$10,000. As a state of \$10,0000. As a state of \$10,000. As a state of \$10

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked intil Feb. 20 for furnishing a quantity of lumber, brass fire, etc., at the navy yard. A. S. Kenny, Paymaster-ieneral, U. S. N.

TELEPHONE.-San Antonio. Tex.-The council granted a 25-year franchise to H. M. Aubrey F. C. Sy and others, who will. It is said, hulid a telephone sys to cost about \$250,000.

to cost about \$250,000 FIRE HOSE -- New York, N. Y.-Bids are asked by the fire department, 157 E 67th St. until Feh. 21 for furnish-ing about 4,000 ft. of 3%-in, rubber and duck woven fire hose. J. J. Scannell, Comr. CANAL.-Buffalo, N. Y.-F. V. E. Bardol, Ch. Engr., writes us that nothing has been done in regard to the proposed canal to the Lake from Buffalo River, further than to order plans prepared. TELEPHONE.-Gloversville, N. Y.-The Hudson River Telephone Co. has applied for a franchise for laying un-derground wires, it also contemplates making extensive alterations to its central station. PIER EXTENSION.-Frankfort, M(c) --Bids are asked

PIER EXTENSION.-Frankfort. Mich.-Bids are asked until March 15 for extending and repairing piers, as stated in our advertising columns. Capt. C. Harding, U. S. Engr. 57 Park St., Grand Rapids.

In the secter barries of the se

IRON CASTINGS, ETC. Montreal, Que. Bids are asked until Feb. 20 for furnishing a quantity of castings, iron snikes, bolts, etc., and about 8000 tons of steam coal. D. Seath. Secy. Harbor Comrs., 57 Common St. PIER SUPERSTRUCTURE --Duluth, Minn.-Blds are asked until March 12 for hullding a concrete superstruc-ture on north pier Duluth Shin Canal, as stated in our advertising columns. Maj. C. B. Sears, U. S. Engr.

advertising columns. Maj. C. B. Sears, U. S. Engr. TELEPHONE.—Fort Edward, N. Y.—The board of trus-tees have granted a franchise to Chas. W. Forbes, of Al-bany, to build a telephone line in this city: the line will probably be extended to Glens Falls and Sandy Hill. REMOVING ROCK—Alhany, N. Y.—John Dunfee, Dun-fee Ridg., Syracuse, N. Y., who has been awarded the con-tract for removing rock along the Hudson River, from Al-bany to Troy. will erect a niant here; he has purchased machbery valued at \$100,000. EVCAVATION EVCE—Purcet Me\_Bids are asked

machinery valued at \$100,000. EXCAVATION, ETC.-Rumford, Me.-Bids are asked until March 1 by the Oxford Paper Co., Portland, or Tower & Wallace, 1123 Broadway, New York, for excava-tion, brick and stone masonry, and timber grillage, as stated in our advertising columna. TELEPHONE.-Gloucester C. H., Va.-L. C. Catlett, Supt. Tidewater Telephone Co., writes us that the line will extend from Gloucester C. H., Va.-L. C. Catlett, Supt. Tidewater Telephone Co., writes us that the line will extend from Gloucester C. H. to Newport News, and cost about \$3,000. Contract for poles has heen let, other work will be done by the company by day labor. TILE DRAINAGE.-Champalen, III.-Bids are asked un-til Feb. 20 for furnishing and laying about 4,000 ft. of 18-in, 7,000 ft. of 16-in. 2,900 ft. of 15-in., 1200 ft. of 14-in., and 4,000 ft. of 12-in. drain tile in the Long Point Slough Special Drainage District. J. L. Ray, Attorney. BOILER AND TANK.-Tompkinsguile. N.Y.-Bids arc

BOILER AND TANK.—Tompkinsville, N. Y.—Bids ard asked until March 2 for furnishing a new holler and tank for the launch "Nettle," as stated in our advertising col-umna. Specifications may be seen at the office of Engl-neering News, 220 Broadway, New York, and Monadnoch Block, Chicago, Ill. Lleut.-Col. D. P. Heap. U. S. Engr

REPARING JETTY, ETC.-Portsmouth, N. H.-Bids are asked until March 14 for repairing jetty at the mouth of Sace River, Mc.; dredging and removing boulders in Exeter River, N. H., and for dredging in Little Harbor. N. H., and In Essex River, Mass. as stated in our adver-tising columns. Maj. W. L. Fisk, U. S. Engr.

Using columns. Maj. W. L. Fisk, U. S. Engr. TROLLEY.—Fort Hamilton, N. Y.—The following bids were received by Mai. W. L. Marshall, U. S. Engr. New York, on Feb. 1. for constructing a trolley system for motor batteries at Fort Hamilton: Greenlie, Wyatt & Co. 499 Water St., New York, \$2,179; time, 90 days. Post & McCord, Frost and Clay Sta. Brooklyn, \$2,850; time not stated. Robert S. Bishop, 33 Broadway, New York, \$2,300; time, 70 days. New Jersey Foundry & Machine Co., 26 Cortlandt St., New York, \$2,730; time, 75 days.

RAPID TRANSIT TUNNEL.-New York, N. Y.-J. B. McDonaid, Jerome Park Reservoir, New York, will ask for bids next week for subletting the coutracts for construct-ing the proposed rapid transit tunnel.

#### FOREIGN CONTRACTS AND EXPORT NEWS

ARGENTINE.-Reports state that Hopkins, Gardom & Telley, Engrs., of Calle 25 de Mayo No. 130, Enenos Ayres, have the contract for completing the Trausandlue Ry. This line will be on the Argeutue side of the Andes about This line will be on the Argeutue side of the Andes about 20 miles, and ou the Chilan side about 22 miles loug, most of which route is through the mountain.

20 mHes, and ou the Unitan side about 22 mHes loug, most of which route is through the mountain. FERSIA-Reports from St. Petersburg, Russia, state that the construction of the Trans-Persian railway has been decided upon. The line will be 1,300 mHes loug, and will cost 100,000,000 rubics (Turkestau). The route will be from Dshuffa, by way of Tabreez, Hamadan, Ispahan and row Dshuffa, by way of Tabreez, Hamadan, Ispahan and row Dshuffa, by way of Tabreez, Hamadan, Ispahan and row Russia propose to build railways in Fluitaud, includ-ing railway stations, a hridge over the Neva, etc. CUSTA RICA.-Reports state that the contract for 25,000 steel ues has been tet to tue Kailway Track Supply & Equipment Co., Londou, by the Ferro-Carrii de Costa Rica and that further contracts will be let for extending the ine about 28 mHes. Livesey, Son & Henderson, Engrs, 29 Broad St. Ave., E. C., Loudou, Eng. W. H. Bird, Res. Engr., San Jose, C. R.

ngr., San Jose, C. K. MEXICO.—The Couquista Coal Railway Co. has heen lu-orporated with a capital stock of \$50,000 by J. T. Gardu-er, J. L. Elliott and C. J. Peabody, 27 Fine St., all of corporated ner, J. L. New York.

ner, J. L. Elliott and C. J. Feabody, 24 File St., an of New York. FRENCH AFRICA.—Bids are wauted by the Salie des Seances of the Permanent Market Commission, 4 bils rue Jean Nicot, Paris, until Feb. 16 for constructing a railway between knakry and the Niger. The work will be done in two sections, and will cost about \$1,544,000. SOUDAN, AFRICA.—Reports state that surveys are to be made by the French governiment for a railway in the French Soudan, west of the Nile Valley. The Ministry of Colonies, 36 Direction, 26 bureau, Salie 190, Paris. NEWCASTLE-UPON-TYNE, ENG.—Bids are asked until March 2 for furnishing 150 tranway car bodies and trucks, and the electrical equipment. Check for forms, etc., \$25. Highinsons & Talbot, Eugrs., 26 Victoria St., London. HttLL, ENG.—Bius are wanted at once, according to

Hopkinsons & Taibot, Eugra, 20 victoria St., London. HoLLL, ENG.--Buiks are wanted at once, according to reports, for 10 additional motor, cars by the works com-mittee of the corporation. It is said that about 100 cars will be wanted later on. CALAIS, FIKANCE.--It is reported that this city will establish an electric trainway. The Compagnie des Train-ways de Calais is operating six miles of line. The officials of horocaux also propose to put in two short lines. A com-puny, it is stated, will build an electric road in Neilan, Neitaria and the state of the compagnie des the state of th b) borners, it is stated, will build nn electric road in Neima, LiVERPOOL, ENG.-R. W. Biackweil & Co., 39 Victoria St., London, S. W., and 120 Liberty St., New York, were awarded the contract last month for equipping 10 miles of the corporation electric railway. About 20 miles of the tranway have been bnit and acout 30 miles are yet to be let. The same company has a contract for building 10 miles of electric road in Rheims, France, work on which has been begut. John O Nein, Mgr. Liverpool framway.

WORMS, GERMANY.-The council decided Jan. 2 to erect an electric plant and an electric raliway. Viotoc has decided to erect a gas and electric plant.

HANOVER, GERMANY.-Gebr. Korting, of 60 Boden tedterstrasse, this city, will erect an electric plant in Du-erstadt; estimated cost, 185,000 marks.

HILO, HAWAII.—Application for a charter has been made by the electric light and cold storage company; cnp-ital, \$200,000, with permission to increase to \$3000,000. Chas. H. Fairer, Esq., care H. Davies & Co.,Ltd., this city.

Chus, H. Parfer, Esd., care H. Davies & Co., Liu, this city. COLOGNE-EHRENFELD, GERMANY.-We are in-formed that in the Province of Poseu, an electric plant, with the necessary wiring, is being built, which will sup-ply the larger estates and agricultural centers with power. The construction and financing of the work is being con-ducted by the financial department of the Helios Elek-tricitats-Aktiengesellschaft, of this city.

ducted by the financial department of the Helios Elek-tricitata-Aktiengeselischaft, of this city. INDIA.-The government of Mysore has decided to build a line from the Mysore and Hassan districts, to the West Coast. Col. D. McNell Campbeli, Ch. Eugr., and Seey. to Governor, Bangalore, will make the surveys, etc.---The South Iudian Ry. (meter gage), has completed sur-veys for a line from Kalikiri, west of Pakala Juuctiou to Royachot, about 35 miles. Sir. Geo. Bruce, Consult. Engr., 3 Victoria St., London, S. W.---The Madras Ry. will build lines from Tirnpathur Station to Krishuagiri, about 25 miles; from Salem to Salem-town, and the foot of the Shevaroy Hills, s miles, with a possible extension to Attora,35 miles. Col. Sir W. S. S. Bisset, Indian Office, Gov. Dir., London, S. W.; E. W. Stoney, Ch. Engr. CHINA.-A military raliway is to he hnilt between Hsiaochan to Pekin, about 50 miles. Jung Ln, Comp-troller of Board of Revenue and War, Pekin.---A Bel-gian syndicate has petitioued the Burenn of Miues and Railways Waug-Wen-shao, Senior High Comr., Pekin, for permission to build a line from Tangchau to Kalgan, about 125 miles.

125 miles.

permission to build a line from Tangchau to Kalgan, about 125 miles. WARSAW, RUSSIA.—A report from the Austro-Hun-garian Consul-General at Warsaw says motor cars will soon be in demand for private and commercial uses of communication between the various provincial towns. LONDON, ENG.—C. J. Stewart, Cik. London Couuty Council, writes ns that the conncil's application for powers to construct electrical tramways and light railways have not yet been heard, and it is improbable that they will be for some months to come, and any information as to them given at this stage would be very indefinite. When the council shall have obtained the necessary powers, ten-struction and equipment of the tramways and light rail-ways will be invited by public advertisement, and it will be open for any persons or firms—American as well as others—to send in tenders. The council possesses the necessary powers for the construction of the proposed new sewage outfall works; but it has not yet been dedded whether it will invite tenders for the works heing executed under contract.

LiVERPOOL, ENG.—The corporation is reported to have ecclived permission to extend the electric plant at a cost f about \$1,500,000. A. B. Holmes, Cy. Elec. Engr.; A. Jourgh Mer. received of about Clough.

PIEDRAHITA (AVILA), SPAIN.—Bids are asked by the city authorities until Feb. 15 for a concession for lighting this city for 15 years, according to reports. Population, 5,000.—It is protosed to erect an electric light plant at Villa-marchante. The water power of the Huria is to be utilized.

GABLONTZ, AUSTRIA.—A concession has been granted to Rumpel & Waidek, of II. Hibernergasse 8, Pragne, for water-works to cost \$203,642 guiden, and to be completed by Nov. 30.

SHIMONOSEKI, JAPAN.—The assembly has approve the construction of water-works and work on same is to be commenced immediately. Population, 38,000. Addres Mayor Hara, or Mr. Sepiya, Vice-Chn. City Assembly.

ST. PETERSBURG, RUSSIA.—It is proposed to supply this city with water from Lake Ladoga, 40 miles east, the pipe to be laid along the banks of the Neva River. Ad-dress His Excelency the Suttholder of St. Petersburg. CENTELLAS (BARCELONA), SPAIN.—The Axuital-mento (council) invites tenders for constructing water-works. Jose Walte, Secy. Councils.

works. Jose Walle, Seey. Councils. SALTILLO, COAHUULA, MEX.-Felipe Cardenas, of Coahuid, and F. H. Dilion, of Mackin & Diliou, of Sal-tillo, have sold \$225,000 of public bonds to construct sewers and water-works, a market and a slaughter-house for all of which Mr. Dilion's firm hold the contracts. LONDON, ENG.-The East London Water-Works Co., which has about completed two new reservoirs at a cost of about \$6,600,000. W. B. Bryan, Engr., Lea Bridge, MEXICO, MEX.-It is reported that the city council has rejected the three bids received last November for about \$2,000,000 worth of asphalt paving in about 100 streets. The matter will be taken up on a new basis. CIENFYEOS, CUEM.-Reports state that a second ice-

CIENFUGOS, CUBA.-Reports state that a second ice-making plaut will be built by the Cubau-American lee Co., of this city. A. R. Grant, Pres.; O H. Dockman,

PARRAL, MEX.—It is stated that T. T. Lane will es-tablish a cold storage and ice plant at Parrai, and that J. H. Uuderhili will establish a steam laundry at Tam-

proc. BRESLAU, GERMANY.--Wackeron und Deter, of 15 Kaiser, windelmistrasse, will estatistic works for the manu-facture of light railway plant----Schuckert & Co., of 94 Landgrahenstrasse, Nuruberg, are preparing plaus for

Langgramener.av., na iron foundry. VIENNA, AUSTRIA.—Schustala & Co., 8 Kolowratring, will erect a railway plant, cars, trucks and vans, in Freiwill erect a raii berg, Moravia.

berg, Moravia. ASTRAKHAN, RUSSIA.—Reports state that the gov-ernor of this city has authorized the issue of \$4,120,000 in bonds for sauitary improvements; population, 70,000. ZABORZE, GERMANY.—The Douuersmarkhutte Obers-chlesische Kohlen und Elsenwerke Apt.-Ges. will erect large steel works and fouudry here.

chiesische Kohlen und Eisenwerke Apt.-Ges. will erect large steel works and fouudry here. LONDON, ENG.--it is intended to begin work late in the spring on the proposed manufacturing establishmen; power plant, etc., to be erected near London; estimated cost, about \$500,000. The buildings, of which there will likely be six with steel frames, will cover about four acres. About 600-1IP. dynamos, etc., will be put in. The plans and specifications are being prepared by Chas. J. Goldmark, Des. Eugr. and Arch., 29 Broadway, New York. Mr. Goldmark will likely sail for Europe in con-nection with the scheme inside of a few months. CIVITA VECCHIA, ITALY.-The government is about to improve the harbor here by deepening, constructing a new breakwater and extending the old breakwater, at a cost of \$778,640. Lacava Comm. Avv. Pietro, Minister Pub. Wks, Rome. VALPARAISO, CHILI.-Cougress has passed an act empowering the expenditure of \$420,000 in repairing the Valparaiso breakwater and in providing Li with e.ectric light. Francisco de B. Valdes Cnevas, Industries and Public Works, Alameda 219, Santiago, Chill.

BERLIN, GERMANY .- Reports state that the coustruc-on of a canal octween Berlin and Stettin will cost 42,on of a canal 90,000 marks.

000,000 marks. CHINA.—Press reports state that F. Sutterle, Sr.; R. H. Parker and L. F. L. Garrison, Min. Engr., 921 Clinton St., all of Philadelphia, Pa., and Louis Spitzel, Miu. Engr., Lon-don, Eng., have sailed for clina to examine certain coal heids. The heids, which lie as yet indeveloped, are on the banks of the Yang-tze-Kiang River, and it is proposed to supply with fuel the large cities of the Chinese inte-rior. It is expected also to open rich gold prospects which are said to exist in the vicinity. KINGSTON, JAMAICA.—It is reported that the Cale-donia Bay Canal Survey Commission has made surveys 12 miles for the canal and river improvements. GREAT BRITAIN.—The following list of projected work

<text>

<page-header><section-header>

#### CONTRACT PRICES.

STONE CURBING.-Lawrence, Kan.-Holland Wheeler, Cy. Engr., writes us that Gustafscn & Palm, and O. G. Olson have been awarded the contracts for 10,000 ft. of  $5 \times 20$ -in, stone curbing at 43 cts. n Hu. ft.

5 × 20-in, stono curbing at 43 cts. a lin. ft. PAVING.—Toledo, O.—The following contracts have been let for brick paving: Michigan St, ione block)—Geo. H. Bodette, grading, 20 cts.; prick, \$1.44 to \$1.48. East Broadway—G. H. Bodette, grading, 21 cts.; paving with Logan block, \$1.32; uext lowest bid, \$1.43. Rosewood Ave.—Garrigan Bros., grading, 16 cts.; paving, \$1.53; next lowest bid, \$1.44. Prouty Ave.—No award; H. J. Bowen, grading, 18 cts.; paving, \$1.42.~Garrigan Bros., grading, 20 cts.; pavius, \$1.42; Jas. T. McKinney, paving, \$1.42 (informal). The other bidders for paving were Will-iam McIntosh (irregular), Chas. W. McKinney (irregular), J. J. Leith, Carland & Warner, H. C. Jennison, H. P. Streicher, W. J. McMahon, Thos. J. Keliy, John McMahon, Cleveland Asphalt Paving Co., and the Warren-Scharf Asphalt Paving Co.

Aspnait raving Co. CEMENT SIDEWALKS.—St. Paul, Minn.—The following bids were received Jan. 20, 1000, for laying 150,000 sq. ft, of cement sidewalks: L. G. Washington, 9 cts. (he secured the contract last year at 8% cts.); W. B. Curtis, 10 cts. SEWERS, CASTINGS, SEWER PIPE, SIDEWALKS, ETC.-Atlanta, Ga.-Wo are informed that the following bids were received Feb. 5, 1900, for sewer work, city fur-nishing materinis, etc., during the yenr:

Quantities.	H	W. A. aneock & Co.	Frank E. Lake.	W.W. Griffin.
Brick 1,000,000 per			\$9.30	\$8.50
Rub'le mas'ry. 1,000 cn.			1.15	1.10
Cut stone 50 eu.			1.60	1.85
Flagging 200 sq.			.65	.65
Lumoer 20,000 ft.	B. M.	8.00	7.00	9.00
Excavatiou:				
10 ft. or less, 15,000 cn.	vds.	.18	.19	.161/2
	1.1	.22	.20	.21
20 " " " . 1,000 "	8.0	.26	.26	.22
25 " " " . 100 "	4.6	.35	.32	
. 100				.28
Concrete 50 "		1.10	1.00	1.15
Rock excav 500 "		.65	.65	.50
Pipe:				
8, 10, 12-ln20,000 lin.	ft	.04	.05	.04
15 and 18-in. 10,000	4.4	:041/3		.05
20, 22 24-in, 2,000 "	6.0	05	07	051/

Co., 2/4 cts.; Fulton Foundry & Machide Works, 2.1 cts.; W. S. Withers, 1/2 cts. WATER PIPE AND VALVES.—Perth Amboy, N. J.—The following bids were received Feb. 5, 1909, for firmishing 255 lengths of 8-in. cast-iron water pipe and fitings and valves; Jos. G. Burns, Supt.: M. J. Drummond, New York.—Pipe, \$26.85 per gross ton; castings, 2% cts. a ib; 8-in. valve, \$16.59; 6-in. valve, \$10.70. Fox & Engel, 53 Broadway, New York—Pipe, \$25.00 a net ton (accepted); castings, 2% cts.; valves—8-in. \$16.50, 6-in. \$10.50. War-ren Foundry & Machine Co., New York—Pipe, \$28.00 a gross ton; castings, 2% cts; valves—8-in. \$16, 6-in. \$12.75. R. D. Wood & Co., Philadelphia—Pipe, \$25.80 uet tou; castings, 2% cts.; valves—8-in. \$18, 6-in. \$12.75. R. D. Wood & Co., Philadelphia—Pipe, \$25.80 uet tou; castings, 2% cts.; valves—8-in. \$18, 6-in. \$12.75. R. D. Pipe & Foundry Co., Chicago-Pipe, \$26.30 a net ton; cast-ings, 2% cts. The Michigan Brass & Iron Works, De-troit—Castings, 3% cts.; valves—8-in. \$17, 6-in. \$10.50.

#### INDUSTRIAL NOTES.

THE NEW YORK FILTER MFG. CO., 26 Courtlandt St.,

THE NEW YORK FILTER MFG. CO., 26 Courtlandt St., New York, has a contract for furnishing one of its filter-ing plants for the Clarion Water Co., Clarion, Pa. THE T. A. GILLESPIE CO., Pittsburg and New York, is reported to have a \$40,000 contract for riveted steel pipe for Honolulu, and a similar contract from the city of

Ransome Concrete Construction Co., Oakland, Cal.; \$20, 000; T. R. Hutchinson, B. Ransome,

Electric Fire Engine Co. of America, Des Moines, 1a., \$30,000; T. Johns, W. B. Shaffer.

National Liquid Air Co., New York, N. Y.; \$5,000,000, G. J. O'Doherty, F. A. Lynch, Boston, Mass. Ferguson Brick Co., Troy, N. Y.; \$40,000; O. W. Fer-guson, H. A. Stone.

Western Engineering & Construction Co., Dover, Del., \$100,000; T. M. Moe, C. S. Cleaver.

Usona Portland Cement Co., San Francisco, Cul.; \$500, 000; G. R. Inglis, C. Rickoff. Vandegrift Construction Co., Riverside, N. J.; \$100,000; A. Vandegrift, H. A. Clark.

National Tinplate Co., Pittsburg, Pa.; \$5,000,060; J. C. McDoweii, Philadeiphia, Treas.; A. B. Daly, Dir. Kentucky & Indiana Telephone & Telegraph Co., ilen derson, Ky.; \$250,000; H. K. Cole, Owensboro; J. H. Car ter, Henderson.

American Independent Telephone Co., Dover, Del.; \$100,000; E. F. Canby, Wilmington. Coionial Sugar Refining Co., Dover, Del.; \$100.000; J. L. Wolcott.

Eastern Shore Telegraph & Telephone Co., Denton, Md.; \$100,000; T. L. Day, F. R. Owens.

Colorado Electric Light Co., Colorado, Tex.; \$10,000 . M. Webb, B. S. Vantuyl.

K. M. Webb, E. S. Vantuyl.
Municipal Light, Heat & Power Co., Hoboken, N. J.; \$300,000; J. Bruning.
S. B. Alexander, Jr., Electric & Suppiy Co., Charlotte, N. C.; \$25,000; S. B. Alexander, Jr., J. F. Robertson.
Oklahoma City Electric, Gas & Power Co., Oklahoma Oklahoma City Electric, E. H. Cooke, A. B. Baird, Chesapeake Electric Co., Baitimore, Md.; electrical sup-piles; B. C. Howard.
Mt. Pieasant Electric Co., Mt. Pleasant, Tenn.; \$15,000; C. H. Ingram, H. D. Ruhm.
Consumers' Light, Heat & Ice Co., Richmond, Va.; \$100,000; W. C. Stuart, Pres.
Roolyn Light & Power Co., of Roslyn, North Hemp-stead, N. Y.; \$50,000; R. D. Winthrop, Westbury. People's Water & Power Co. of Realion, Red Lion, Pa.; \$1,000; J. A. Miller, C. E. Mayes.

Notice.

As Thursday, Feb. 22, is a holiday, Engi-

THE ROBBINS & MYERS CO., Springfield, O., an-ounces that the increased demand for its fans, motors and dynamos has made it necessary to add a new factory ontaming 30,000 sq. ft. to its plant for the use of this and dyna. department

56

department. THE PHOENIX PAINT CO., 661 Freeman Ave., Cin-cinnati, O., has been established to manufacture "mica" asphait paints for use on wooden or metal surfaces. Mr. C. W. Klayer and Mr. J. H. Cunningham are interested in the company.

in the company. J. D. MciLWAIN & CO., Pittsburg, have removed to 3 Wood St., Conestoga Bidg., where they will handle levia-than helting and supplies, Norton bridge and railway jacks, Clancy hose clamps, Buckeye portable lamps, Swain lubricators and metallic packing, shafting, hangers, split pulleys, et

pulleys, etc.
THE BERLIN IRON BRIDGE CO., East Berlin, Conn., has just completed two large highway bridges at Long Lake, N. Y., and is now putting up a 200-ft. span at Stuyvesant Falls, N. Y.; a large highway bridge at Hillsboro, N. H., and a two-span trolley bridge across the Naugatuck River at Waterbury, Conn.
MR. JOHN S. NOWOTNY, 105 E. Pearl St., Cincinnati, announces that he bas purchased the good will, patents, etc., of the Nowotny Electric Co. In the manufacture of Nowotny's euclosed arc lamps and other electrical specialties, and now has much hetter and increased facilities for their manufacture.
THE ACME ROAD MACHINERY CO., Frankfort, N. Y..

for their manufacture. THE ACME ROAD MACHINERY CO., Frankfort, N. Y., has been organized, with a capital stock of \$100,000, to build road huilding machinery of all kinds. Pres., Philander Pollock; Vice-Pres., Julian Scholi; Secy. Treas., James W. Jones; Gen. Mgr., Walter A. Cook, Jr. Mr. Cook and Mr. Jones and several other members of the new company have for several years been identified with the Climax Road Machine Co., Marathon, N. Y. THE SPRAGUE ELECTRIC CO. New York has

the Climax Road Machine Co., Marathon, N. Y. THE SPRAGUE ELECTRIC CO., New York, has equipped one of the old Dominion line steamers with a quantity of Lundeil fans, finished in white and gold to correspond with the cabin decorations. The fans aré mounted to run in au inverted position, the motors being attached to the ceiling. The company reports also that the N. Y. Beiting & Packing Co. has ordered a 75-K-W. direct connected generator for its new factory in Passaic, N. J., and that the E. S. Ward & Co., has equipped its new factory in Waverly, N. J., with the Lundeil appar-atus, having ordered one 25-K-W. and 75-K-W. gener-ntor, beited type, of 250 voits, and 15 motors ranging from 2 to 20 HP. THE CLING-SURFACE MFG. CO., Buffaio, N. Y., has

THE CLING-SURFACE MFG. CO., Buffaio, N. Y., ast been incorporated under the laws of the state of 1 just been incorporated under the laws of the state of New York, retaining the same name as heretofore with Albert B. Young as President and General Man-ager and Wm. D. Young as Vice-President and Secretary. The company reports a large and in-creasing demand for "Cing-Surface." The com-pany has hrauches in Bostou, New York and Chicago, with others just opeuing in St. Louis and New Orieans, while the weil-known importing house of W. J. Moxham & Co., of Sidney, Australia, has ordered a large shipment of "Cing-Surface." with the exclusive right to handle it in Australia.

In Australia. NEW COMPANIES.—Jewett Car Co., Newark, O.; \$200,-000; H. S. Sands, Wheeling; C. E. Krebs, Jewett, O. Munger Vehicle Tire Co.; Corporation Trust Co. Bldg., Jersey City, N. J.; \$600,000; Henry C. Qulmby. Melyn Iron Works, Chicago; \$145,000; N. W. Hacker, W. B. Ward.

OIL CITY, PA.

Controller.

office of

1900.

made

to be constructed

PAVING AND SEWERS.

Sealed proposals for the construction of the following improvements, will be received by

the City Controller, for the City of Oil City,

Main St., repaving; boud, \$1,200; North Petroleum St., paving; hond, \$10,000; Central Ave., sewer extension; bond, \$660; Cowell St., sewer; bond, \$800.

Bonds must accompany all bids. Plans and

specifications can be seen, and printed forms be obtained at the City Engineer's office. The

right is reserved by the city to reject any or all bids. S. W. BARNHART,

GATE VALVES.

Sealed proposals will be received at the office of the Clerk of the Board of Control,

No. 105 City Hail, until 12 o'clock m. Feb-ruary 26, 1900, for furnishing, delivered free on board of cars in the City of Cieveland, O.,

such water gates, of sizes from 3 inches to

48 inches, inclusive, as may be required dur-

ing the year 1900 by the Water-Works Di-vision of Department of Public Works of the

Specifications may be seen and biank pro-posals can be obtained at the office of the

Each proposal must contain the full name

of the party or parties making the same, and

ali persons interested therein, and must be accompanied by a certified check of One

Thousand (\$1,000.00) Dollars on a solvent

sank in the city, made payable to the Di-ector of Public Works of Cieveland, O., as

Superintendent of Water-Works.

CLEVELAND, O., Jan. 27, 1900.

Pa., until 4 p. m., Feb. 26, 1900:

7-2t

City of Cleveland.

be day specified.

Bristol & Joplin Lead & Zinz Mining Co., Corporation rust Co. Bldg., Jersey City; \$100,000; W. W. Gooch, Wil-on R. Yard. 001 K. Yaru. White River Lumber & Mineral Co., Portland, Me.; \$350, 00; J. S. Healey, Boston, Mass.; W. K. Longee, Provi-

J. S. Healey, Boston, Maas., W. R. R. I. error Boller Protection Co., New York, N. Y.; \$100.-William W. Brauer, J. T. Lynch. William & Frick Co., Rochester, N. Y.; \$250,000; Will-Illiard & Frick Co., Rochester, N. Y.; \$250,000; Will-William W. D Williard & Frick jam H. Reid.

Willard & Frick Co., Rochester, N. Y.; \$250,000; Williard & Frick Co., Jersey City, N. J.; \$10,000,000;
Chas. A. Porter, Kennedy Crossan.
Lehigh Power Co., Jersey City, N. J.; \$500,000; Geo. W.
Griffiths, C. M. King.
Rotary Motor Vehicle Co., Kittery, Me.; \$400,000; W. R.
Whiting, Boston; N. S. H. Sanders, Danvers, Mass.
Barachail Impregnating Co., Perth Amboy, N. J.; \$100,000;
Aibert G. Wanier, Perth Amboy.
Electric Regulator Co., 294 Bioomfeld Ave., Montclair, N. J.; \$125,000; Erl F. Wilson, Charles H. Shelton.
Universal Water Lift Co., New York, N. Y.; \$500,000; G.
A. Crofutt, F. W. Barker.
Monarch Stove & Manufacturing Co., Mansfield, O.; \$100,000; E. C. Baxter, S. N. Lord.
Southern Navigation Co., Denver, Colo.; \$100,000; H. W.
Mitcheil.

Mitcheil.

Southern Navigation Co., Denver, Colo.; \$100,000; H. W. Mitchell. Nonparell Instantaneous Water Heater Co., San Fran-claco, Cal.; \$300,000; I. I. Brown, A. F. Vogelsang. Randshurg Water Co., Johannesburg, Cal.; \$100,000; H. A. Darling, A. E. Snow. National Mfg. & Contracting Co., Philadelphia; \$1,000,-000; J. W. Ellis, E. E. Conrad. Automobile Co. of Los Angeles, Los Angeles, Cal.; \$50,-000; I. B. Dockweller, H. E. Carter. Pacific Oil Mining & Development Co., San Francisco, Cal.; \$500,000; F. Cutting, Oaksand; G. C. Aiferitz. Sunset Oil Mining & Development Co., San Francisco, Cal.; \$500,000; F. Cutting, Oaksand; G. C. Aiferitz. Lisbon Telephone Co., Lisbon, Ia.; \$10,000; W. C. Stuck-iager, J. Anracher. Wood Bros. Steel Self-Feeder Co., Des Moines, Ia.; \$40,-000; O. F. Dorrance, G. H. Sherwood. Martin-Fefel Vehicle Co., 26 Warren St., Jersey City; \$250,000; Wm. B. Lightoot, New York, N. Y.; John Mar-in, Paris, Tex.

\$2:00,000; Wm. B. Lighthoot, New York, A. H., Carlin, Paris, Tex.
J. S. Metcalf Co., Chicago, Iil.; \$50,000; contracting; J.
S. Metcalf, F. G. Adams, T. K. Webster.
United States Clay Mfg. Co., Newark, N. J.; \$240,000;
H. M. Keasbey, Orange, N. J.; R. W. Allison, Pittsburk, The Yellowstone Park Telephone & Telegraph Co., Boze-man, Mont.; \$10,000; Frank A. Hall, George W. Boyce.
Chicago Pipe Line Refrigerating Co., Chicago, Ill.; heat-ing and refrigerating piants; \$100,000; S. J. Howe, S. Schooler.

Schooler.
Brake Adjuster Mfg. Co., Minneapolis, Minn.; \$50,000;
L. Knowles, J. Casey.
Minnesta & Ontario Bridge Co., Minneapolis, Minn.;
\$300,000; H. Baxter, C. H. Childs.
Eureka Automobile Transportation Co., San Francisco,
Cal.; \$500,000; C. L. Fair, S. Bennett.

Cal.; \$500,000; C. L. Fair, S. Bennett.
Berks County Telephone Co., Wilmington, Del.; \$300,-000; S. D. Debert, F. M. Yeager, Reading, Pa. Dakota City Roller Mili Co., Dakota City, Neb.; \$15,000; S. T. Perrine, I. G. Royce.
Columbia Iron & Steel Foundry Co., Pittsburg, Pa.; \$25,000; G. P. Loomia, C. C. Lee, Oaknut, Pa.
Reilly Brake & Finder System Co., Newark, N. J.; \$2,-500; T. Relily, Mary E. Lynch.
Penn Slate Construction Co., Camden, N. J.; \$50,000; J. MacCarroll, J. W. Perry.

Sealed proposals addressed to Wm. Baugh City Secretary, and properly endorsed, will be received at the City Council Chamber, Houston, Texas, until 4 p. m., on Wednesday, Feb-ruary 28th, and opened immediately thereafter, for the construction of certain pipe and brick sewers and appurtenances, in connection with the proposed improvements to the sew erage system.

The work comprises approximately, the lay ing of 7,200 feet of from 15 to 30-inch pipe sewers and 1,375 feet of 42-lnch brick sewers with appurtenances, including two inverted siphons and the laying of about 21/2 miles of

office of the Consuiting Engineer, 157 Broad-way, New York, and In Houston, and specifications can be secured from the City Secretary, City Hall, Houston, on or after 12th

The City reserves the right to reject any and all bids or to accept that one which in

Each proposal must be accompanied by

ALEXANDER POTTER, Consult. Engr. 6-3t

U. S. ENGINEER OFFICE, 537 Congress St., Portland, Me., Feb. 10, 1000.-Scaled pro-posals for DREDGING Narragaugus River, Maine., will be received here until 12 m., March 14, 1900, and then publicly opened. In-formation furnished on application. S. W. ROESSLER, Maj., Engrs. 7-4t

SEALED PROPOSALS will be received at the office of the Light-house Engineer, Tomp-kinsville, N.Y., until 12 o'clock m., March 2d, 1900, and then opened, for furnishing new BOILER and TANK for LAUNCH "NET-TLE." Information may be had upon appli-cation to D. P. HEAP, Lieut.-Col., Corps of Engrs., U. S. A. 7-2t

neering News of that date will be issued on Wednesday, the last pages going to press on Tuesday. No advertisements or news items can be published next week unless received by us not later than Tuesday morning.

TOWN OF NEEDHAM, MASS., OFFICE OF THE BOARD OF WATER COMMISSIONERS, February 8, 1900. Sealed proposals for constructing a Supply

Well will be received by the Board until 12 m., Thursday, March 8, 1900. Plans a specifications may be seen at the office of the Engineer, Room 751, Tremont Building, Boston, and samples of borings at the Needham Pumping Station. Each proposal must be based upon a personal inspection of the site of the well, be accompanied by a certified check for \$200, made payable to the Town Treasurer of Needham, and enclosed in a plain envelope addressed to the Water Board, George A. Adams, Secretary.

The right is reserved by the Board to reject any and all blds as deemed necessary for the Town's interest.

FREDERICK G. TUTTLE,

EDMUND G. POND, Water Commissioners LOUIS E. HAWES, Engineer. 7-31

PRISON AND WORKHOUSE. GREENBANK, DEL.

Sealed proposals will be received by the Board of Trustees of the New Castle County Workhouse, until 11 o'clock a. m., March 6th, 1900, for building a prison with workbouse and appurtenances also for the building of a powerhouse and underground passageway at Greenbank, Delaware, near the City of Wilmington.

Pians can be seen and specifications and form of proposals may be had by applying at Board of Trade Rooms, in Equitable Build-Ing, Wilmington, Del., on and after February 20th, 1900.

The Board of Trustees reserve the right to reject any and all bids.

J. N. GAWTHROP, President J. FRANK BALL, Secretary. 7-21

surety that if the proposal be accepted a con-ract will be entered into. No proposal will be entertained unless made on the blanks furnished by the Superintend-7-2t nt of Water-Works and delivered at the ofof the Clerk of the Board of Control, No. 05 City Hail, previous to 12 o'clock m. on The City eserves the right to reject any

r ail bids. JOHN VANDEVELDE, 3-3t Deputy Director of Public Works.

you want additional help, to procure second-hand ols, machinery, plant, etc., y a "Want" card on page

specified. The city reserves the right to reject any or il bids. JOHN VANDEVELDE, ail bids. 6-3t Deputy Director of Public Works. 30-IN, PIPE SEWER. AMSTERDAM, N. Y. Sealed proposals will be received at the office of the Sewer Commissioner, Amsterdam, N.Y., until 8 p. m., March 1, for the construction of 875 feet of 30-inch plpe sewer. Pro-posal bond or certified check, \$300.

PROPOSALS FOR PILE AND

TIMBER DOCK.

CLEVELAND, O., Feb. 6, 1900. Sealed proposals will be received at the flice of the Clerk of the Board of Control,

No. 105 City Hall, until 12 o'clock m., Thurs-

day, March 8th, 1900, for furnishing the ma-

terial and performing the labor for the con-

struction of a pile and timber dock and shore protection on the Cuyahoga River, between

the Middle and Lower Bridges of Seneca St.,

iu the City of Cieveland, O., and for excavat-ing that portion of the River front from the

F. E. CRANE, Superintendent.

U. S. ENGINEER OFFICE, Army Building, New York, N. Y., Feb. 13, 1900.—Sealed pro-posals for furnishing and delivering CEMENT, BROKEN STONE and SAND, at Fort Hamli-ton, N. Y., will be received here until 12 m., March 15, 1900, and then publicly opened. In-formation furnished on application. W. L. MARSHALL, Maj, Engrs. 7-4t

If you have anything to sell or to rent, we suggest that you advertise for a few weeks on one of our "For Sale" pages

present dock line to the new line of the dock Plans and specifications may be seen and 24-inch cast-iron force main. Plans and specifications can be seen at the biank proposals can be obtained at the office of the Cblef Engineer, after February 12th, Each proposal must contain the full name of the party or parties making the same, and

ail persons interested therein, and must be accompanied by a certified check for Two Thousand (\$2,000.00) Doliars, on a solvent February.

their judgment is for the best interests of the

Houston.

bank in the city, as surety that if the proposal be accepted a contract will be entered into. City of Houston No proposals will be entertained unless

certified check for \$5,000.00 on some bank in

U. S. ENGINEER OFFICE, Duluth, Minn., Feb. 10, 1900.—Sealed proposals for setting in place concrete footing blocks, and building in place concrete superstructure on north pler, Duluth ship canai, will be received here until noon, March 12, 1900, and then publicly opened. Information furnished on application. CLINTON B. SEARS, Major, Engrs. 7-4t

If you want bids for doing any work, or for furnishing supplies, try an advertisement on a "Proposal" page

S. H. BRASHEAR, Mayor. WM. BAUGH, City Secretary

on the bianks furnished by the Chief Engineer, and delivered at the office of the Clerk of the Board of Control, No. 105 City Hall, previous to 12 o'clock m., on the day

SEWER WORK. HOUSTON, TEXAS.

J.

## SUPPLY WELL.

