CONTENTS OF SUPPLEMENT.

PERSONAL Obluary ENGINEERING SOCIETIES Coming Technical Meetings NEW PUELICATIONS Trade Publications 57 57 58 CONSTRUCTION NEWS:

| Condensed List of Contracts rending | ŝ. |
|--|----|
| Railways | |
| | |
| The set of the and Power as a set of the set | |
| mailwood | |
| The station of the second seco | |
| Water, Works 01 | |
| Sewerage | |
| de la construction de la constru | |
| and Roads 02 | |
| Manufacturing Plants | |
| Interestioneous Contracts | |
| Contract Prices | \$ |
| OUSTRIAL NOTES 64 | i. |

PERSONAL.

Dr. W. F. Blunt, of Lockhart, Tex., has been apher of the State Board of Health of Texas, to inted a mem succeed Dr. R. M. Swearingen, deceased.

Mr. Charles H. West has been elected Chief Enginner of the Mississippi Levee District, Greenville, Miss., to succeed Mr. William Starling, M. Am. Soc. C. E.

Mr. John D. King, for several years Superintendent of the New Brighton Water Co., New Brighton, Pa., has re-signed. Mr. Bonhright Kennedy has been appointed to sucsign ceed him.

Mr. William E. McClintock, M. Am. Soc. C. E., formerly of the firm of McClintock & Field, civil engineers, of Brockton, Mass., has begun the practice of law at 644 Tremont Building, Boston, Mass.

Mr. J. F. Coleman, civil engineer, of New Orleans, La., expects to leave for Cuha and Porto Rico ahout Sept. 15 on a prospecting tour to investigate the outlook for civil engineers and contractors in those islands. He intends spending about 30 days on the trip.

Mr. Willism Forsyth, M. Am. Soc. M. E., Mechanical Engineer, of the Chicago, Burlington & Quincy R. R., with headquarters at Aurora, III., has accepted the position of headquarters at Autora, his, has accepted the posther of Superintendent of Motive Power of the Northern Pacific Ry., with headquarters at St. Paul, Minn., to succeed Mr. M. Herr, resigned.

Mr. Thomas G. Long, M. Am. Soc. C. E., formerly of the Union Bridge Co., New York, Is now Second Vice-President of the R. P. & J. H. Staats Co., lately reorganized and incorporated, with offices at 29 Broadway, New York. The company's work, as engineer and contractor, co docks, bridges, huidings, foundations, masonry, etc.

Mr. L. N. Case, General Superintendent of the water department of Detroit, Mich., has ceased to hold that po-sition, owing to its abolition hy the Board of Water Com-missioners, and has instead been appointed Acting Secretary during the absence of the Secretary. Mr. Case has been connected officially with the water department for over 30 vears.

Mr. A. G. Menocal, M. Am. Soc. C. E., formerly Clvil En. iner, U. S. Navy, whose "suspension from duty on fur-lough pay for three years" as a result of his trial in consequence of the failure of Dry Dock No. 3 at the New York Navy Yard, was noted in our issue of June D, has heen par-doned by President McKinley, who restores him to him former status in the navy. Mr. Menocal will be retired from active service Sept. 1 on account of the age limit.

OBITUARY.

Mr. Jscoh Guest Jones, contractor, of Washington, D. C., died Aug. 16, aged 62.

Mr. Joseph A. Barstow, contractor, of Atlantic City, N. J., died Aug. 15, aged 71.

Mr. Joseph Clark, contractor, died at his home in Hazel Green, Ky., jast week, aged 77.

Mr. David M. Smith, huilder and contractor, of Brooklyn, N. Y., died Aug. 21, aged 80.

Mr. William Reed, contractor, of Allegheny, Pa., died in Wilkinsburg, Pa., Aug. 13, aged 85.

Mr. Edward H. Moore, Water Commissioner, of Stone-bam, Mass., died Aug. 18, aged 47.

Mr. C. J. Gardner, President of the Utica Cement Co. Utica, N. Y., died at Colorado Springs, Colo., Aug. 18, aged 53.

Mr. Aihert A. Pancoast, President of the Philadelphia Reading Coal & Iron Co., Philadelphia, died at Elberon, N. J., Aug. 19, aged 58.

Mr. Robert A. Stranahan, formerly well known in the South as a constructor of gas works, died at his home in Boston, Mass., Aug. 9.

Mr. William E. Davis, Superintendent of the Clinton Bridge Co., Clinton, Ia., accidentaily shot and killed himself Aug. 18 in that city. He was horn at Athens, Pa., in 1872, and was educated at Cornell University, Ithaca, Bridge N. Y. Since then he has been connected with the Eimira Bridge Co., Eimira, N. Y., the Adirondack & St. Lawrence R. R., the Phoenix Iron Co., Phoenixville, Pa., K. W. Hildreth & Co., New York, and the Union Bridge Co., Athens, Pa. He was a son of Mr. George E. Davis, Superintendent of the last-named company.

Mrs. Sophia Braeunlich, Business Mansger of the Scien-tific Puhlishing Co., New York, puhlishers of "The Engineering and Mining Journal" and "The Mineral In-dustry," died at Sault Ste. Marie, Mich., Aug. 11. She was born on Long Island, July 2, 1854, and was the first woman graduate of Packard's Business College, New York. She entered the service of the above company Dec. 11, She entered the service of the above company Dec. 14, 1879, and in 1888 she became Secretary and Treasurer of the same. She was appointed Business Manager Jan. 1, 1880. Mrs. Braeunlich was the first American woman elected a Fellow of the Imperial Institute of London.

Mr. Edward Dexter Brown, M. Am. Inst. E. E., died in the military hospital at Fort Meyer, near Washington, D. C., July 16, aged 30. He was born in Reading, Mass., and graduated from the Massachusetts Institute of Techand graduated from the Massachusetts Institute of Tech-nology, Boston, Mass., in 1890. Since 1891 he had been with the American Telephone & Telegraph Co., with offices at 18 Cortiandt St., New York city, and since 1895 was the General Inspector, having risen through the lower en-glneering grades. On April 30, last, he resigned this po-sition in order to chart from the terms of the poin order to go to the front with Troop C, New York Volunteer Cavairy, of which he had heen a member for two years, holding the post of Corporal. He was taken sick with typhold fever while at Camp Alger, Va.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

COMING TECHNICAL MEETINGS. NATIONAL IRRIGATION CONGRESS. Sept. 1-3. Annual convention, Cheyenne, Wyo. Secy., J. C. Harpham. TECHNICAL SOCIETY OF THE PACIFIC COAST. Sept. 2. Secy., O. Von Geidern, 819 Market St., San Francisco, Cal.

TECHNICAL SUCLETY OF THE FACIFIC CUAST.
Sept. 2. Secy., O. Von Geidern, 819 Market St., San Francisco, Cal.
GERMAN-AMERICAN TECHNICAL SOCIETY.
Sept. 3-7. Annual meeting, Phi:adelphia Section, Read-ing, Pa. Secy., A. Schumann, 532 North 4th St., Phil-adelphia, Pa.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Sept. 5. Secy., H. J. March, Library B'dg., Buffalo, N.Y.

N. Y. AMERICAN STREET RAILWAY ASSOCIATION. Sept. 6-9. Annual convention, Boston, Mass. Secy., T.

AMERICAN STREET KALLWAY ASSUCIATION. Sept. 6-9. Annual convention, Boston, Mass. Secy., T. C. Pennington, 2020 State St., Chicago, III. AMERICAN SOCIETY OF CIVIL ENGINEERS. Sept. 7. Secy., C. W. Hunt, 220 W. 57th St., New York city. CENTRAL RAILWAY CLUB. Sept. 9. Secy., H. D. Vought, 114 5th Ave., New York city.

Sept. 9. Sect., in. C. FURGINEERS. City. MONTANA SOCIETY OF ENGINEERS. Sept. 10. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont. THE LOUISIANA ENGINEERING SOCIETY. Sept. 12. "Evolution of Structural Design," F. T. Liewilyn. Secy., J. F. Coleman, 712 Union St., New Orleans, La. ASSOCIATION OF EDISON ILLUMINATING COM-DANIES. MICH.

ASSOCIATION OF EDISOL ALL Stellard PANIES. Sept. 12-13. Annual meeting, Sault Ste. Marie, Mich. Secy., Wilson S. Howell, Newark, N. J. NORTHWEST RAILWAY CLUB. Sept. 13. Secy., T. A. Foque, Soo Line, Minneapolis, Minn. Sept. 13. Seey., 1. Subsection of CLEVELAND. CIVIL ENGINEERS' CLUB OF CLEVELAND. Sept. 13. Seey., Wm. H. Searles, Case Library Bldg.,

Sept. 13. Secy., Wm. H. Searles, Case Library Bldg., Cieveland, O. NEW YORK STATE STREET RAILWAY ASSOCIATION. Sept. 13-14. Annual meeting, Brooklyn, N. Y. Secy.,

Sept. 13-14. Annual meeting, Brooklyn, N. Y. Seey., H. A. Robinson, New York city. DENVER SOCIETY OF CIVIL ENGINEERS. Sept. 13. Seey., W. B. Lawson, 36 Jacobson Bldg., Den-ver. Colo.

ver, Colo. THE RAILWAY SIGNALING CLUB. Sept. 13. Secy., Earl M. Seltz, C. & N. W. Ry., Chicago,

111. ENGINEERS' CLUB OF CINCINNATI. Sept. 15. Secy., J. F. Wilson, P. O. Box 333, Cincin-

ENGINEERS' CLUB OF CINCINNATI.
Sept. 15. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.
BROOKLYN ENGINEERS' CLUB.
Sept. 15. Secy., A. J. Prevost, Jr., 191 Montague St., Brooklyn, N. Y.
NORTHWESTERN TRACK AND BRIDGE ASSOCIATION.
Sept. 16. D. W. Meeker, St. Paul, Minn.
ENGINEERS' CLUB OF PHILADELPHIA.
Sept. 17. Secy., L. F. Rondinella, 1122 Girard St., Phildelphia, Pa.
BNGINEERS' CLUB OF COLUMBUS.
Sept. 17. Secy., H. M. Gates, 12½ North High St., Columbus, O.
ENGINEERS' CLUB OF MINNEAPOLIS.
Sept. 19. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUIS-VILLE.

VILLE Sept. 19. Secy., Marshall Morris, 16 Norton Bidg., Louisville, Ky., ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA, Sept. 20. Secy., R. A. Fessenden, 410 Penn Ave., Pitts-

Louisville, Ky.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Sept. 20. Secy., R. A. Fessenden, 410 Penn Ave., Pittshurg, Pa.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Sept. 21. Secy., B. M. Gardner, 1522 Monadnock Block, Chloago, Ih.
ENGINEERS' CLUB OF ST. LOUIS.
Sept. 21. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.
CENTRAL STATES WATER-WORKS ASSOCIATION.
Sept. 27-29, Annual meeting. Springfield, O. Secy., John Fisher, 11 Riley St., Hamilton, O.
AMERICAN INOCIETY OF MUNICIPAL IMPROVEMENT.
Oct. 12. Annual meeting, Bushington, D. C. Secy., Dath Fulton, Bureau of Highways and Sewers, Allegheny, Pa.
AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting, Buffslo, N. Y. Secy., R. W. Raymond, P. O. Box 223, New York city.

NEW ENGLAND ROADMASTERS' ASSOCIATION .-The 16th annual meeting of this association was held at Boston, Mass., Aug. 17-18, and the program was carried out as announced in Engineering News of July 28.

THE LOUISIANA ENGINEERING SOCIETY .-- A . reg ular meeting of this society was held Aug. 8. Mr. C. H. Chamberlain, Assistant Engineer, T. & P. R. R., read an interesting paper on "Deep Bridge Foundations on the Atchafalaya River."

The society decided to apply for membership in the Association of Engineering Societies, and the Secretary was instructed to file the necessary application. An outing will taken in September consisting of a tour of inspection of the drainage stations and cana's now being constructed in and about New Orleans.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.-The Committee ou Turntable Construction recently issued a list of questions, with the request that they be answered and returned as early as possible to Mr. Onward Bates, 1100 Oid Colony Bidg., Chicago, Ill. The following are the questions:

How many turntables are under your care? Description of your turntable? (Style and name of

Description of your turntable? (Style and name of maker.)
 Diameter of turntable pits?
 Depth of pits at center?
 Depth of pits at perimeter?
 Diameter of circular track for balancing table?
 Kind of foundation for circular track?
 Kind of foundation for circular track?
 Kind of further track?
 Kind of pits walls?
 Kind of parking in pit?
 Method of draining pit?
 Are any of your pits covered, and in what manner?
 Are any of your pits covered, and in what manner?
 Whit is the length of your heaviest engine including tender, in running order, with coal and water?
 Me low long a table is required to balance these engines?

gines What is the distance from center of table to eud of 111

ng lever? How many men does it take to turn your heaviest 18 engine?
engine?
fib. Give following particulars of turntables:
(a) Deck or through girders or gallows frame?
(b) Kind of centers (wheels, conical rollers, halls or minel?

pins)? (c) Method of halancing and adjusting height of center?

center? (d) Number and diameter of halance wheeis? (e) Method of adjustment at ends? (f) Kind of floor? (g) Kind of latch? (h) Kind of supports for rais at ends of table and on pit walls? pit walls? 20. Do you have trouble with steel or iron tables rusting? 21. What kind of paint do you use on metal tables? 22. Are engines allowed to hlow off steam while stand-ig on tables?

22. Are engines answer with snow in pits?
23. Are you troubled with snow in pits?
24. Are you required to keep the tables locked when not i use, so that they cannot he turned hy trespassers?
25. If you have tables turned hy power, describe its aplication? in

pleation? 26. Please state your opinion as to the durability and wearing qualities of the turntables that have come under your observation?

NEW PUBLICATIONS.

STATE BOARD OF HEALTH OF MICHIGAN.-Report for the Year Ending June 30, 1896. Henry B. Baker, Lan-sing, Mich., Secretary. Cloth; 6 × 9 ins.; pp. CC. + 523; tables.

This report contains a vast mass of statistical informa tion relating to meteorology, sickness and death in Michi-gan for the year 1895. Besides this an account is given of the detailed work of the hoard during 1896 and a numher of papers on health matters are included.

STATE BOARD OF HEALTH OF NEW YORK.—Report for 1896. Baxter T. Smelzer, M. D., Secretary, Al-hany, N. Y. Cloth: 6 × 9 Ins.; pp. 620; many tables and folding maps, 32 of the latter being in a separate

Under the laws of New York all plans for sewerage and Under the laws of New York ali plans for sewerage and sewage disposal systems must he presented to the State Board of Health for approval. A large part of the report hefore us is made up of plans and descriptions of such proposed work. Besides this there are some special reports on sewerage, water supply, garhage disposal and other subjects, and copies of the rules and regulations established hy the hoard for the sanitary protection of certain water supplies. Most of the tables are composed of detalled mortality statistics for the state and its sub-

COMMISSIONER OF EDUCATION.-Report for the Year 1896-97. Vol. I., Part I. Wm. T. Harris, Commis-sioner, Washington, D. C.; Puh. Doc. Cloth; pp. 1,136; tables and Illustrations.

This thick volume treats of a wide range of subjects, including such diverse ones as Sunday schools and nitrifying organisms. It is a review of educational work in a variety of phases hoth in this country and abroad. Some of the chapter headings indicating the matter in the volume most likely to he of interest to our readers are as follows: "The Curriculum of the Land Grant Colleges." "Requirements for Admission to the Freshman Class in Colleges, Universitles and Schools of Technology;" "Enrance Requirements for Engineering Colleges;" "Some Recent Contributions of Biology, Sociology and Metallurgy to the Curriculum of Colleges Endowed hy the Federal Government for the Benefit of Agriculture and the Me-chanic Arts;" "Educational Directory."

CRAINC ARCS; Educational Directory.
EXPERIMENTAL TREE PLANTING IN THE PLAINS.— By Charles A. Keffer, Assistant Chief of the Forestry Division. Pub. Doc. Bulletin No. 18, Division of Forestry, U. S. Department of Agriculture, Washing-ton, D. C. Paper, Svo.; pp. 94; illustrated.

The experiments have been made to test the adaptability of various species in different regions, to develop methods of cultivation and to demonstrate forestry methods. Most of childration and to demonstrate torestry methods, Most of the plantations are in the Western plains, and the author discusses the advantage of such plantations as well as the conditions affecting tree growth. Reports are given of the several plantations in South Dakota, Nehraska, Kansas, Colorado, Utah and Minnesota, some of which are under the care of the state agricultural colleges.

<page-header><page-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text>

| - | |
|------|---|
| Se | pt. 10. Bridges (3), Wichita, Kan |
| Se | pt. 10. Brick paving, Coshocton, O. |
| Se | pt. 10. Street improvements, Nelsonville, OAug. 2 pt. 10. Highways, Rockville, Ind |
| | |
| Sec. | at 111 Improvement to a the start to the Allo of |
| | |
| 84 | nt 12 Water and somer hands Maker . Aug h |
| 6. | and 14 Gradden |
| 0. | the test value and a set of the set of the set of the set of the set |
| Se | pt. 12. Lake outiet, Lake Manitoba, Can |
| | |
| Se | ept. 12. Bridge Lima O. |
| S | apt, 12, Paving, Youngstown O |
| S | ept, 13. Aqueduct (1714 miles) Rirmingham |
| S | ept. 13. Bridge, Edmonton N W Tor |
| S | pp. 12. Bridge, Lima, O |
| S | ept. 13. Crushed limestone Toledo O |
| S | ept. 13. Capitol building Helena Mont |
| S | ept. 13. Brick sewer, etc. Kearney N 1 |
| | Advertised Eng Nows Aug 19 to Aug. 18 |
| S | ept. 13. Repairing bridge Mountain Home Home |
| S | ept. 14. Hospital buliding Los Angeles Cal |
| S | pt. 13. Bridge, Edmonton, N. W. Ter. Aug. 22, 2010 (2010) (201 |
| S | ept. 15. Fire alarm system Mobile Ale |
| | Advertised Eng News Aug 11 to 2 |
| S | PD. 10. Enlarging court house, Lisbon, N. Dak |
| | Advertised Eng. News, Aug. 25 and Sept. 1. |
| S | ent. 15 Engine (150 HP) Nom Orland Sept. 1. |
| S | ept. 15. Iron bridge, Natchitoches, La |
| S | ept. 16. Brick and pipe sewer Richmond Ind |
| S | pp. 16. Jrön Dridge, Natchitoches, La |
| - | Advertised Eng News Aug 25 and a |
| S | ept. 16. Cement broken stone oto E. Manu Sept. 1. |
| S | ept. 17. Storm sewer Mansfield O |
| S | ept. 17. Headstones (10 000) Boston Moss |
| S | pt. 17. Headstones, (10,000), Boston, Mass. Aug. 2 ept. 19. Headstones, (10,000), Boston, Mass. Aug. 2 ept. 19. Heading and ventilating, St. Albans, V. Aug. 2 Advertised Eng. News Aug. 25. and a: Aug. 25 |
| | Advertised Eng. News, Aug. 25 and Sept. 1. |
| S | ept. 19. Hospital plans San Francisco Col |
| S | ept. 19. Hospital plans, Sam Francisco, Cal Aug. 4 ept. 19. Jail, Lovelocks, Nev |
| S | ept. 19. Bridge bonds, Los Angeles, Cai |
| S | ept. 20. Viaduct, Cincinnati, O |
| S | ept. 21. Canal, Chicago, Ill. Aug. 25 Advertised, Aug. 25 to Sept. 15. et. 23. Supplies Watervlict N V. |
| | Advertised, Aug. 25 to Sept. 15 |
| S | ept. 23. Supplies Watervijet N V |
| S | Advertised, Aug. 25 to Sept. 15. ept. 23. Supplies, Watervilet, N. Y |
| S | ept. 29. Court house, Marietta Co |
| 0 | ct. 1. Arc lighting, Marshfield Wie |
| 0 | ct. 1. Monitors (4) Washington D. C. |
| 0 | ct. 1. School building (equipment) St Thomas July |
| Õ | ct. 4. Coal conveyors, etc., Chicago, III |
| | Advertised Eng Nowe Aug 95 |
| 0 | |
| Ó | ct. 24. Markets, etc., Belem, Brazil, |
| 0 | ct. 25. Jetties, Portland, Ore |
| - | Advertised, Eng. News Ang 25 to Carthaug 25 |
| | |
| | |
| Ja | an. 1. City hall plans, Bridgeport, Conn |
| | Aug. 1 |
| | RAILWAYS. |
| | MAILWATS. |

RAILWAYS.

RALLWAYS. BALTIMORE & OHIO.—Press reports state that this com-many contemplates tunneling through the heavy grade at the three states the state that this com-tent of the states in the heaviest between Harpers were and Baltimore, Md., and to make the tunnel would be about 10,000,000. W. T. Mannag, Ch. Engr., Baltimore. CHICAGO & WABASH VALLEY.—Bend. J. Gifford, Pres., Kankakee, Ind., informs us that the right of way has been betained and the ties and rails secured this proposed point way from his farm lands, mosily in Jasper county, to a connection with the Eastern IIIInols Ry., a distance of about ten miles. No towns will be passed through. S. H. Lodges, Kniman, Ind. CULMBIA SOUTHERN.—E. E. Cooper, Ch. Engr., Wasco, Ore., informs us that the grading has been com-pleted on this proposed railway from Wasco to Moro, Ore., I'm les, and that five miles of track on the same has been and pres., E. E. Lyde, Wasco.

EAST CAROLINA,-Work has been completed ou this new line from Tarboro to Davison, N. C., and is being further extended seven miles south from Davison to Crisp. Pres., Henry Clark Bridges; Engr., W. J. Burnett, both of Tarboro, N. C.

Tarboro, N. C. GOLDSBORO, SNOW HILL & EASTERN.-This com-gany was incorporated in North Caronna Aug. 15, with a capital stock of \$300,000, to construct a raliway from Show Hill, Green county, to Pantego, Beaufort county, N. C., through Greene and Pitt counties, a distance of about 60 miles. The officers are, J. W. Lynch, Pres., of Suffolk; Colonel Alexander S. Bacon. Vice-Pres., of New York; Col-onel J. H. Macleary, Gen. Mgr., of Suffolk; Dr. J. T. Mc-Cormick, Treas., of New York; Director, George W. Suge. of Snow Hill, N. C. DELAWARE - We are Informed that the

of Snow Hill, N. C. DELAWARE.—We are informed that this company has been organized to build a 15-mile line of railway from Delhi to Andes, N. Y., and that arrangements have been made with a strong New York corporation to handle the bonds. A contract has been made with Thomas Murray, of Plain-field, N. J., to construct the road. Strong & Totten, 127 Liberty St., New York, are associated with him in the con-tract, and the grading, tracklaying and hridges have been vublet to Richardson & Reed, of Owego, N. Y. E. F. Mus-son, 4 Sheidon St., Norwich, N. Y., is chief engineer. Con-struction will begin at once, and the contract calls for com-pletion before Jan. 1, 1839. Pres., Henry Davie, Delhi, N.Y. HAWTHORNE, NEBACAMON & SUPERIOR.—F. Weger. pletion before Jan. 1, 1899. Pres., Henry Davie, Dehh, N.T. HAWTHORNE, NEBAGAMON & SUPERIOR.-F. Weyer-hauser, Chippewa Falis, Wis, informs us that this is a proposed logging railway to be built in Wisconsin for a dis-tance of 25 miles. Grading has just been begun. No officers have yet been elected.

officers have yet been elected. IOW 4, MINNESOTA & NORTHERN.-This company was incorporated in lowa Aug. 17, with a capital stock of \$200,000, with headquarters at Mason City, Ia. The officers are, Pres, A. C. Frost, Chicago; Vice-Pres, David Scor, Winnebago City, Minn.; Treas., W. E. Brice, Mason City; Secy., J. S. Lindon, Clear Lake, Minn. KANSAS, OKLAHOMA CENTRAL & SOUTHWESTERN. -J. H. Bartels, Pres, Bartlesville, Ind. Ter., informs us that 60 miles of this new line have been located and cross-sectioned, and the right of way for the same obtained. The Toledo Construction Co, has 30 miles of the route graded and now has 270 teams at work; 60 miles will be stode of the outer of the same obtained. Tex., before quitting work, after which preparations will be made towards the further extension from Vernon to San Antonio, Tex.

Antonio, Tex. KEARNEY & BLACK HILLS.—This railway property was sold under foreclosure at Kearney, Neb., Aug. 18, to the Union Pacific R. R. Co., at \$150,000. The length of the line is 65.4 miles. LEAD BELIT.—This company was incorporated in Mis-souri Aug. 9, with a capital stock of \$4,000, to construct and operate a standard gage railway from the Mississippi River & Bonne Terre RJ, at Central Station to the Central Lead Co.'s plant, a distance of four miles, all in St. Fran-

cois (That T. Go

SI

LOI son. no in line I Ky. MA River city grad detai begu MI & Co

two \$26.0 City

MU Vice that obta

raily

ping Abo

0

cor \$15 wes cou hav Ry what Gu Ka Gu Ka Cit Th Ok Cit Th Ok Cit Th Ok Cit Th State Cou State State Cou State Cou State Cou State State Cou State S

3. 23

4181523

2121818

11 28 25

uld T.

cois county. The incorporators are, J. H. Bethune, Arthur Thatcher, W. E. Guy, F. H. Ludington, H. J. Cantweil, W. T. Gouid and C. S. Rodgers, all of St. Louis, Mo.

T. Gould and C. S. Rodgers, all of St. Louis, Mo. LOUISVILLE, HENDERSON & ST. LOUIS.-R. N. Hud-son, Ch. Engr., Cloverport, Ky., informs us that there is nimmediate intention of completing the extension of this interform West Point, the present terminus, to Louisville, Ky. The grading between these points was done in 1893. MASSACHUSETTS.-Philip D. Borden, Cy. Engr., Fall River, Mass., writes us that the railway company and tho ergadecrossings in this city, and are now at work upon the details. It is not likely that any more street work will be begun before 1899. MINNESOTA TRANSFER.-Reports state that MAX.

Actions in the intervention of the second se la

Wapello, la. NEW YORK, NEW HAVEN & HARTFORD.-Patrick Fitzgerald, New London. Conn., is said to have received the contract for building the Groton extension of the Nor-the contract for building the Groton extension of the New build division of the Consolidated road from the New Lon-don Navy Yard to a point 1½ miles from the Thames River drawbridge.

OHIO SOUTHERN.—Reports from Lima, O., state that the sale of this railway has been postponed from Aug. 20 until Sept. 20.

the sale of this rai/way has been postponed from Aug. 20 until Sept. 20. OKLAHOMA CENTRAL. — This company was in-corporated in Oklahoma Aug. 15, with a capital stock of \$15,000,000. The road will run from Oklahoma City north-west through Canadian, Kingfisher, Blaine and Wood counties. It is reported that eight grading outfits, which have finished contracts on the St. Louis & Oklahoma City Ry., in Lincoin county, have gone north to Pawhuska, where they were to have begun, on Aug. 20, grading on the Kansas & Oklahoma Central from Coffeyville, Kan., Saline, Kan., Herman Bruen, New York: Paul Cooke, Kansas City: S. C. Burrell and Phillip Koch, Watonga, Okla.; Thomas H. Davis, Saline, Kan., and McGregor Douglas, Oklahoma City.

ONTARIO & RAINY RIVER.--McKenzle & Mann, To-ronto, Ont., are reported to have been awarded the con-tract for the construction of the first 25 miles of this pro-posed railway in the south central portion of Canada, near lake Superior.

tract for the construction of the first 25 miles of this pro-posed railway in the south central portion of Canada, near Lake Superior. OREGON SHORT LINE.-Reports state that the con-struction of an extension of this railway, from Milford, Utah, to the Nevada state line is assured. J. C. O'Mel-veney, Ch. Engr., Sait Lake City, Utah. ST. ANTHONY & NATIONAL PARK.-This company was incorporated in Idaho Aug. 12, with a capital stock of \$250,000, to build a railway to St. Anthony, Fremoni county, a distance of 30 miles. The directors are, C. H. Moon, Pres.; S. R. Finley, Secy.: M. E. Jamison, Treas.; C. Baker, C. P. Bartleit and R. J. Costlett, of St. An-hony, Idaho; M. J. Kerr, of Ora, Idaho. TEMPILE & SALADO.-C. J. Grainger, Pres., Palestine, rex., informs us that the survey has been made and the right of way obtained for this proposed railway from Tem-ble to Saido, Tex., 16 miles. One-half of the capital, or \$50,000, has still to be secured by the saie of 3% 20-year juarantee bonds. The company expects to begin construc-tion work as soon as these bonds are disposed of. T. Cronin, Supt. of Construction, Palestine. WERA CRUZ & PACIFIC.-It is announced that this com-nany will soon be in the market for a quantity of material, as it expects to begin work about Oct. 1 on the construc-tion for city, Mexto. WESTMORELAND JUNCTION.--This company was in-forporated in Pennsylvania Aug. 22 with a capital stock of \$60,000, to construct a steam railway from North Irwin, Pa., o watco city, Mexto. WESTMORELAND JUNCTION.--This company was in-forporated in Pennsylvania Aug. 22 with acapital stock of \$60,000, to construct steam railway from North Irwin, Pa., of there of the miles. The incorporators are A. Frank, Pres.; J. D. Brown, T. P. Herron, D. A. Kelley and J. Arthur Jones, all of Irwin, Pa.

STREET AND ELECTRIC RAILWAYS.

SIMLET AND ELECTRIC RAILWAYS. LACONIA, N. H.—At a meeting of the directors of the Laconia & Lakeport St. Ry, the following officers were elected: Harry L. Pierce, Pres.; Chas. T. Foster, Treas., both of Lecominster, Mass.; Edmund Little, Clerk, of La-conia; Lewis S. Pierce, Supt., Lecominster. It was also voted to proceed at once with the construction of the electric system and to raise the roof of the car house six ft, that being necessary in order to admit of the housing of the new electric cars.

of the new electric cars. MONTPELIER, VT.-F. C. Kennedy, Pres. Mad River Valley Electric R. R. Co., Burlington, Vt., informs us that the capital is now being secured for the construction of the proposed electric railway from Montpelier to Warren, via Middlesex, Moretown and Waitsfield, a distance of about 26 miles. The route is through the valley of the Mad River, with a connection with the Central Vermont R. R. st Middlesex and Montpelier, and it is expected to carry a large smount of produce to these places. The line will be built by the Burlington Construction Co., of which Mr. Schenedy is president. V. K. Nash, Ch. Engr., Woon-socket, R. I.

socket, R. L. DEDHAM, MASS.—David Neal, Chn. of Selectmen, Ded-ham, informs us that the location of the Norfolk Western St. Ry. through this place, has been granted by the town and accepted by the company, and a bond of \$5,000 de-posited. The proposed route is from Dedham to Medfield, Via Westwood, a distance of nine miles. Pres. W. W. Metchen, Medfield, Mass.; Ch. Engrs., Hodges & Harring-ten, Boston, Mass.

¹⁰⁹, Hoston, Mass. CATSKILL, N. X.—The Catskill Electric Ry. Co. has ¹⁰⁰ for a state of the was originally built to be operated only for a distance f two miles through the streets of Catskill Village, but is now proposed to extend to Windham and Cairo, naking a line 16 miles in length.

ROCHESTER, N. Y.-The Rochester & Sodus Bay Ry, . was incorporated in New York, with a capital stock (\$1,000,000, as stated in our last issue under Rallways, 0 construct a rallway to be operated by other power than

steam. Thos. J. Nicholl, Pres., 267 State St., Rochester, informs us that this will be an electric line running from Webster to Sodus Point, via Sea Breeze, Ontario, Union Hili, Williamson and Sodus, a distance of about 42 miles. The preliminary survey has been made, and most of the right of way obtained. Le Grand Brown, Ch. Engr., 267 State St., Rochester. CRANFORD N. 1. The termship examiliate has Dath

State St., Rochester. CRANFORD, N. J.—The township committee has post-poned the public bearing on the petition of the Elizabeth & Westfield St. Ry. Co. for a franchise to build a trolley line through the township, until Sept. 12. Pres., A. A. Gaddis, Westfield, N. J.

Chaddia, Westfield, N. J.
 ELIZABETH, N. J.-F. J. Hubbard, County Engr., Plainfield, N. J.
 ELIZABETH, N. J.-F. J. Hubbard, County Engr., Plainfield, N. J., informs us that the preliminary survey has been made and the right of way is now being obtained for the proposed electric railway to be built by the Eliza-beth City Horse R. R. Co. between this city and Plainfield, via Cranford, Westfield and Fanwood, 12 miles, as noted in our last issue. Union county receives \$250,000 for tho franchise, which sum is to be expended in the construc-tion of a boulevard, 100 ft. wide, and work upon which is expected to begin this fail. Contracts for building the railway will be let as soon as the necessary consents are secured. John Kean, Pres., Elizabeth.
 DOYLESTOWN, P.A.-The Newtown Electric St. Ry. Co. was granted a franchise, Aug. 15, to construct a line through the borougb on Green St. to Main St. This com-pany proposes to extend its line from Newtown to Doyles town, via Wightstown, Penn's Park, Wycomb, Forestville and Furlong, 13% miles. Pres., Thos. P. Chambers, New-town, Pa.
 HATBORO, PA.-The Hatboro & Horsham Electric Device

and Purlong, Lova miles. Pres., Thos. P. Chambers, New-town, Pa.
HATBORO, PA.—The Hatboro & Horsham Electric Ry.
Co. was incorporated, Aug. 18, to construct a trolley line between the towns named, a distance of 1¼ miles. The directors are: James Crawford, Alfred R. Gandy and Magnus Helistrom, Pres., all of Philadelphia; S. Edward Hagar, Doylestown; John B. Peddle, Woodbury, N. J.
PHILADELPHIA, PA.—It is reported that the South-western Passenger Ry. Co., which received a franchise in April to construct a line through that portion of Phila-delphia lying between Moyamensing Ave. and the county line, has begun the work of track isying. The road will start at Otsego and Mifflin Sts. to Jackson and 5th Sts., to Moyamensfing Ave., to Penrose Ferry Road, to Schuyi-kill Bridge, thence scross the bridge to State Island Road and Bow Creek, to the county line. It is said that the road will he constructed on the most approved plan. Pres., Edgar A. Tennis.

Edgar A. Tennis. STROUDSBURG, PA.-Frank H. Smith, Pres., Strouds-burg, informs us that the Stroudsburg Passenger Ry. Co. expects to change the motive power on its 2½ miles of railway between Stroudsburg and East Stroudsburg from steam to electricity. An extension, two miles in length, is contemplated. No contracts will be let, but the work will be done by the company. WASHINGTON, D. C.-The Ferguson Contracting Co., 69 Wall St., New York, has been awarded the contract for con-structing the remaining section of the Washington & Ches-apeake Beach R. R., 15 miles in length. Work will begin at once and be completed by Jan. 1.

at once and be completed by Jan. 1. ELLICOTT CITY, MD.—Reports state that the final ar-rangements for the completion of the electric railway be-tween Ellicott City and Baltimore, which have been so long Interfered with by financial troubles, have now reached a point that gives assurance of the success of the enterprise. Mr. Yakel, the president of the Columbia & Maryland Ry, before its purchase by the Consolidated Ry. Co., is interested.

HAGBRSTOWN, MD.—We are informed that the Hagers-town Electric Ry. Co. is building a large engine and bolier house, the structural steel work for which will be erected by the North Penn Iron Co., North Penn Junction, Phila-

delphia, Pa. ERLANGER, KY.--L. Morelii, A. Victor and D. Riggs have been appointed a committee by Erlanger to solicit \$12,000 in subscriptions for the electric line which it is proposed to build from Erlanger to Ludlow. CLEVELAND, O.--The county commissioners, Aug. 17, granted a five-year franchise to the Cleveland Electric Ry, Co, to extend the Cedar Ave, line on the Coventry Road.

No. 60. We extend the occas first, fine on the covering Road. DUNKIRK, IND.—It is reported that the contract for building an electric railway between Redkcy and Dunkirk for the Dunkirk & Redkey Traction Co., whose incor-poration was noted in our isst issue, has been awarded to the Electrical Installation Co., of New York and Chicago, and that the work is to be commenced at once and com-pleted by Nov. 15. The line will probably be extended to Pennville. MICHIGAN CITY, IND.—The Northern Traction Co. was incorporated in Indiana Aug. 19, with a capital stock of \$150,000, to build an electric railway from Michigan City to Laporte. The incorporators are: John W. Lovett, W. W. Huffman, W. E. and C. W. Hooven and George Nichol. DURAND, MICH.—The council granted a franchise to the

Acksov, its mind an encorporation are: John W. Lovett, W.
 Multinan, W. E. and C. W. Hooven and George Nichol.
 DURAND, MICH.—The councell granted a franchise to the form of the construction of a line from Coruna through the construction of the construction of a line from Coruna through the construction of a line from Coruna through the construction of the line after Aug. 31, to satisfy the construction of the

ELECTRIC LIGHT AND POWER.

WATERVILLE, ME.—The Union Gas & Electric Co. has commenced work upon its water power of the Messelonskee River where Bushey & Son will put in a stone dam which will furnish about 1.000 HP., for which it is reported a manufacturing concern doing a large business and giving employment to 1.000 men is negotiating.

MYSTIC, CONN.-Bids will be asked about Sept. 1 for constructing a piant to cost about \$25,000 for the Mystic Electric Light & Gas Co. We are informed that the plant

will have arc and incandescent lights, 150-HP. steam plant with engine, and 15,000 light alternator, line, poles, etc. No contracts have been let yet. The plant will light Mystic and Stonington. Thos. C. Perkins, Gen. Mgr. and Des. Engr., Hartford (not Danforth), Conn., as stated last week

week. ATLANTIC CITY, N. J.—The council is reported to have adopted an ordinance giving to John H. Rothermel & Co., Reading, Pa., the franchise for constructing and operating an electric light plant in this city. The Rothermel Com-pany was recently awarded a 5-year contract for furnishing the electric lights for the entire city at \$105 a year. COLUMBIA, PA.—It is stated that the engineer of the Martie Water & Power Co., which intends rebuilding the dam, is making surveys at the foot of Walnut St. It is prohable that the power house for generating electricity will be located on the Wrightsville side of the river. LANSDOWNE, PA.—Bids are asked until Sept. 2 for

will be located on the Wrightsville side of the river. LANSDOWNE, PA.-Bids are asked until Sept. 2 for lighting the streets with electricity for one or five years from Oct. 1. H. L. Warren, Seey., P. O. Box 275. NORRISTOWN, PA.-Local papers state that a propo-sition is being considered to build a plant near the dams of the John Hancock Ice Co., one of them at Greenlane, the other three-fourths of a mile higher up the stream, evering 40 acres, the latter having been constructed a year sgo. At a cost of about \$12,000, a plant could be erected, which would furnish light to Greenlane, East Greenville, Pennshurg, Red Hill and Sumneytown. ROYERSFORD, PA.-The council is reported to have awarded the contract for lighting Co., of Phoenixville, the present contractors. The committee will place additional are lights in the borough.

HAGERSTOWN, MD.-Press reports state that the con-tract for the erection of a new power house in Hagerstown has heen let to the Concocheague Brick Co., Williamsport, Md., operated by Victor Cushwa & Sons. OAKLAND, MD.-It is reported that arrangements are hear made for the proposed municipal piant to cost \$14,000.

\$14,000. NEWPORT NEWS, VA.—Local papers state that W. J. Payne, Richmond, Va., who has just purchased the plant of the Chesapeake Light & Power Co., will soon hegin to make a number of improvements to it. Gen. Mgr. and Secy., Segar Whiting. WINCHESTER, VA.—Bids will prohably soon he asked for building a plant of two 50-light src dynamos of 2,000 c. p.; 71 arc lights of 2,000 c. p. The foundations for the dynamos are to be erected by the city. Wm. R. Willis, Secy. Com.

dynan Secy.

Seey. Com. CHARLESTON, W. VA.--It is reported that the Wilson Aluminum Co., which was chartered some years ago, and which purchased the iand on each side of the Kanawha River at Kanawha Falls, began Aug. 22 to construct a water power plant to generate electricity for manufactur-ing plants in the Kanawha Valley. EDENTON, N. C.--W. D. Pruden, R. F. Cheshire ands others, of the Edenton Cotton Mills Co., organized re-cently, sre in the market for a plant as part of the equip-ment of the new cotton mill to be erected at this place at once.

at once. BENNETTSVILLE, S. C.-D. D. McCall, C. S. McCall and others, of the new cotton mill company organized recently to build a manufacturing plant, will soon pur-chase a light plant for the mil. COLUMBUS, GA.-The Columbus Power Co. has awarded the contract for building the power plant to Hathaway. Jones & Co., Baltimore, Md., at about \$115,000. TALLAHASSEE, FLA.-The council is considering the question of building a plant, according to reports. FULTON, KY.-The plant of the Fulton Electric Light & Power Co., It is reported, will be extended. Supt., F. Carden.

& Po Cardo

A. S. C. C. S. R. I. IS reported, will be extended. Supt., F. Carden.
 MINSTER, O.-August Schunds, Village Clk., writes us that the following contracts were let Aug. 16 for furnishing and erecting the plant: Boiler said engine, Minster Machine Co., Minster, \$2,495; dynamos, switchboard, etc., F. Bissell & Co., Toledo, O., \$1,485; poles, wire, etc., Ambos Construction Co., Cleveiand, O., \$3,250.
 CHURUBUSCO, IND.-The Seckner Contracting Co., The Rookery, Chicago, has been awarded the contract for building a plant and water-works at \$18,500. Secy. and Treas., J. H. Brown, Chicago.
 EVANSVILLE, IND.-The council has decided to levy a tax for the proposed municipal plant. W. M. Akin, Jr., Mayor.

MIDDLETOWN, IND .- A franchise has been granted for plant to cost about \$5,000.

a piant to cost about \$5,000. VEEDERSBURG, IND.-The contract for building a piant and water-works at Veedersburg has been let to the Seck-ner Contracting Co., 351 The Rockery, Chicago, Ili, at \$26,050. J. H. Brown, Secy. and Treas. DECATUR, MICH.-Bids are asked until Sept. 6 for fur-nishing and building a plant. Engr., Geo. S. Pierson, Kala-mazoo, Mich.; Clk., E. J. Rawson.

MOUNT PLEASANT, MICH.--R. S. Graham, Supt. In-dian School, writes as that the specifications for the pro-posed plant, with a capacity of 8 arc and 350 incandescent lights, have not yet been issued.

ights, have not yet been issued. SAULT STE. MARIE. MICH.-The American Lake Su-perior Fower Co. has let the following contracts for fur-nishing the materials and for huilding the proposed power plant, as advertised in Engineering News: E. D. Smith & Co., Philadelphia, all the rock and earth excavation, known as sections 1, 2 and 3; total, about \$1,000,000; Mason, Hoge & Co., Chicago, power house and forehay section; total, about \$500,000; H. W. Hubbell & Co., Saginaw, intake section, dredging, \$50,000. There are other contracts con-nected with the enterprise that will make the total coat of construction \$2,000,000 in round numbers, and may ex-ceed that sum. The turbines for the power bouse will alone cost about \$300,000. Ch. Engr., H. von Schon, Sault Ste. Marie.

MAT'e. GRAND RAPIDS, WIS.-E. W. Orbison, Des. Engr., Ap-pleton, Wis., writes us that bids for the proposed plant for the Consolidated Water Power Co., noted last week under Grand Rapids, Mich., will be received in the early spring. The land along the Wisconsin River for a distance of three miles has been secured by the company. The dam will cost about \$\$0,000, and will furnish 6,000 HP. The power will be used for various purposes. N. Johnson and J. D. Waiter, Grand Rapids, Wis., are in charge of the con-templated work.

templated work. GAYLORD, MINN.-We are informed that Triumph Elec-tric Co., Chicago, has been awarded the contract for fur-nishing the dynamos, etc., and that A. L. Ide & Son, Fort Wayne, Ind. has been awarded the contract for the en-gine and steam plant. The other bidders were the General Electric Co., Schenecatdy, N. Y.; Fort Wayne Electric Cor-poration, Fort Wayne, Ind.; W. I. Gray & Co., Minneapolis; Twin City Iron Works, Minneapolis; Westinghouse Electric Mfg. Co., Chicago.

PERHAM, MINN .- This place is reported to have voted to issue hends for a plant.

to issue nonas for a plant. WATERTOWN, S. DAK.-O. M. Kislin & Co. have been swarded a franchise for lighting this city with electricity. MASON, TEX.-L. Gngenheim, president of the new electric light company, writes us that the contract for the plant has been let to W. G. Schuwirth & Co., San An-tonlo, Tex.

OAKLAND, CAL-H. S. Bullock has been granted a fran-chise for a plant on Sutter Creek and a line into Alameda county and Oakland.

SAN FRANCISCO, CAL.—The Merchants' Association of San Francisco is considering the question of a municipal plant. The sum of \$250 has been set aside for the com-mittee on public affairs to employ experts and devise means whereby the city can acquire its own lighting plant.

whereby the city can acquire its own lighting plant. IDAHO FALLS, IDAHO.—This place voted Aug. 9 not to issue \$5,000 in bonds for a plant. QUEBEC, QUE.—Press reports state that the American company which is going to develop the water power of the Jacquee Cartier River for electric light and power purposes for the benefit of this city in opposition to the Montmorency company, has acquired the chartered rights as regards Quebec of the Standard Light & Power Co., Montreal. It has a capital of \$500,000. Pres., Emerson McMillan, of New York.

BARRIE, ONT.-This place voted Aug. 16 to huild a municipal plant at a cost of about \$35,000. E. Downell, Town Clk, and Treas.

ROCHDALE, ENGLAND.-Bids are asked until Sept. 6 for furnisbing and huilding a plant. Jas. Leach, Town Clk.

BRIDGES.

BRIDGES. HERKIMER, N.Y.—The town board has annulled the con-tract made with the Owego Bridge Co., Owego, N. Y., to build the bridge over West Canada Creek in this place for \$7,300, according to reports. New bids will be called for abortly. Commissioner Creas may be addressed. MOUNT VERNON, N. Y.—M. J. Donlon, Highway Comr. of Pelham, N.Y., has been appointed a committee to procure estimates for the construction of the proposed new bridge between this city and Pelham, according to report. UTICA, N. Y.—The Haif-Way bridge has heen dcCared unsafe for the passing over of the Belt Line Co.'s electric cars, and will probably be replaced by a new one, accord-ing to report. JERSEY CITY, N. J.—Work has heen begun in tearing

cars, and will probably be replaced by a new one, accord-ing to report. JERSEY CITY, N. J.-Work has heen begun in tearing down the old Pacific Avc, bridge. W. G. Triest, 39 Cortlandt St., New York, has the contract to build the new one. NEW BRUNSWICK, N. J.-Permission has been granted the Brunswick Traction Co. to crect an additional bridge 10 it, wide at its own expense adjoining the Green Brook bridge. Edward H. Radel, Secy. Brunswick Traction Co. PATEURON N. L.-A new stone arch or steel arch bridge

PATELISON, N. J.-A new stone arcb or steel arch bridge is projected to replace the present one at Main St. over the Passale River. It will he 40 ft. wide, including 7.ft. side-waiks, and plans are asked for until Aug. 25 by the free-holders.

CONNELLSVILLE, PA.-Permission has heen granted to the Youghlogheny Bridge Co. to erect a bridge in Main St., according to report.

the Youghlogheny Bridge Co. to erect a bridge in Main St., according to report.
 HARRISBURG, PA.—It is reported that a new bridge will be erected over the Conscochcague, between St. Thomas and Antrim townships.
 NORRISTOWN, PA.—The following contracts have been awarded by the county commissioner: Sparks & Evans, town bridge over Saw Mill Run, \$6,995; Philadelphia Bridge Works, iron bridge over Manatawney Creek, at Pottstown, \$3,082; Patton & Evans, masonry of same, \$3,516; Schuyi-kill Bridge Works, iron bridge over Perkiomen Creek, at Godshalf's Mill, \$1,875; Willoughby H. Smith, masonry of same, \$1,435; Schuyikill Bridge Works, iron bridge over Perkiomen Creek, at Godshalf's Schuyikill Bridge Works, iron bridge over Perkiomen Creek, at Yerkes, \$3,576; Patton & Evans, masonry of same, \$4,575; Willoughby H. Smith, masonry of bridge over the same creek at Palm Station, \$1,442.
 PHILADELPHIA, PA.—Chas, Nolan received the contract Arg. 19 for the masonry and the Phoenia Bridges. Perkiomed branch of the Philadelphia & Reading Ry. H. K. Nichols, Ch. Engr.—Sparks & Evans have received the contract, according to report, for the erection of the Vankirk & Dridge on the New York division of the Pansylvania R. R. W. A. Pratt, Engr. of Bridges.
 PITTSBUG, PA.—The Schultz Bridge & Iron Co., McKee's Hocks, Fa., was given the contract, Aug. 16, according to report, to remove the Schenley Park bridge, at \$60 and the material of the structure.
 WARREN, PA.—Bids are asked until Sept. 12 for the construction of a bridge areass the mill-race on Pennsylvania Ave. Plans are also desired for the same until Sept. 7. L. T. Borchers, Chn. Bridge Comrs.; A. Rogers, Engr. ANNAPOLIS, MD.—The Structural Iron Co., Baltimore, has been given the contract at \$2,700; to construct the draw

ANNAPOLIS, MD.-The Structural Iron Co., Baltim has been given the contract at \$2,700, to construct the d of the Severn River bridge, according to report. W Sauer, Secy. and Treas.

Sauer, Seey, and Treas. BALTIMORE, MD.-The Wrought Iron Bridge Co., Can-ton, O., was awarded the contract Aug. 17, to build two bridges over Charles Run, at Monkton Mills, at a cost of \$724 and \$748. The contract for the masonry work on both bridges was given to John T. Diven for \$692. W. H. Mays, Supt. of Bridges. NEWPORT NEWS, VA.-Bids are asked until Sept. 6 for the purchase of \$40,000 bridge honds; check, \$1,000. J. A. Massie, Cy. Clk. CHARLESTON, S.C.-Maj. E. H. Ruffner, Corps of Engrs., U. S. A., will give a public bearing Aug. 25, on the appli-cation of the Wappoo Bridge Co. to hulld a hridge across Wappoo Cut.

WHITE SPRINGS, FLA.-Bids are desired on the con-struction of a 125-ft. hridge of wood or iron, on tuhular abutments 32 ft. high. Address, C. F. Cone, White Springs. JACKSON, MISS.-A. A. Falkes has been awarded the ontract at \$13,961 to huild a brick arch bridge on Capitol

ontract at \$15,001 to nume a brea about noise on the second secon

report. LEXINGTON, KY.-Blds are asked until Sept. 1 for the construction of a 50-ft. wooden hridge. J. K. Gray, Comr., CHILLICOTHE. O.-The county commissioners have de-cided to readvertise for hids for the construction of the iron bridge over the Scioto River, the contract for which had been let to the King Bridge Co., Cleveland. COLUMBUS, O.-Blds are asked until Sept. 13 for 15,000 cu. yds, of fill atd emhankment and 1,815 cu. yds, of gravel top dressing on the approaches of the Clickenger bridge,

Also for 260 perch of limestone masonry, 48 lin. ft. new limestone wheelcourses, 375 cu. yds. of excavation, 700 cu. yds. of fil and back fill, 2,260 ft. B. M. white oak lumber, 8,252 lbs. steel I beams, etc., for the rebuilding of a bridge over a run on the Amity pike. W. H. Halliday, Cik. County over a Comrs

COMPS. CINCINNATI, O.-Separate blds are asked nntil Sept. 20 for the construction of masonry and of the superstructure of a steel rallway viaduct across the valley of Lick Run, east of the Little Miami Klver; bond, \$\$00, with each hld. Aug. Herrmann, Pres. Water-Wks. Comrs.

Aug. Herrmann, Pres. Water-Wks. Comrs.
LIMA, O.-Bids are asked until Sept. 12 for the construction of a hridge over the Ottawa River In Sugar Creek township. J. C. Cronley, County Engr.
GRAND RAPIDS, MICH. - E. H. Barnes, Res. Engr., writes us that the contract for the masonry of the new 105-ft. plate girder hridge to be huilt over the Muskegon River, near Upper Big Rapids, at a cost of \$21,000, bas heen given to H. W. Tapp, Fort Wayne, Ind., and the contract for the snperstructure to the Detroit Bridge & Iron Works, Detroit, Mich.
BARABOO, WIS.-W. G. Kirchoffer, Cy. Engr., is reported to have made a survey and to he at work upon plans for a large iron hridge to be constructed across the Baraboo River at Elroy.
OSHKOSH, WIS.-Oscar Sanne, Engr., Milwaukee, writes us that the contracts for the dids were to high and not in conformity with the engineer's estimate. Bids are again asked until Sept. 6.

asked until Sept. 6. ALMA, NEB.—The following hids were received Ang. 9 for constructing nine county bridges: Canton Bridge Co., Canton (accepted), \$3.365; Missouri Valley Bridge Co., Leavenworth, Kan., \$3,500; Elzaheth Bridge Co., Brizsheth, Ill, \$3,450; Geo. E. King, Des Moines, I.a., \$3,400; Wrought Iron Bridge Co., Canton. 0., \$3,415; A. McLouth, McLouth, Kas., \$3,600; Sbeely Bridge Co., Lincoln, Neh., \$3,440; Marsh Bridge Co., Lincoln, Neh., \$3,500; Parks Bridge Co., Cedar Kapids, Ia., \$3,440; St. Louis Iron & Bridge Works, \$5, Louis, Mo., \$3,412; Dildine Bridge Co., \$1, Louis, \$3,50; dhe Stark Bridge Co., Kansas City, \$3,515; S. L. Roherts, County Clk.

WICHITA, KAN -Blds are asked until Sept. 10 for huld-ig three steel bridges. A. M. Denny, County Clk. ing

MISSOULA, MONT.-O. E. Peppard, of this pisce, has been awarded the contract to build a 200-ft. steel hridge at Grantsdale, at a cost of \$4,025, according to report.

PRINEVILLE, ORE.-Bids are asked until Sept. 7 for the construction of a 125-ft. bridge over Grand Ronde River at Island City. G. W. Benson, Clk. County Comrs.

River at Island City. G. W. Benson, Cik. County Comrs. CALUSA, CAL.-Bids are asked until Sept. 6 for hulld-ing a new bridge on Princeton road, for removing a bridge and for repairing a bridge. Geo. K. Ford, Clk. of Bd. PLACERVILLE, CAL.-Bids are asked until Sept. 6 for the construction of a combination deck hridge over the North Fork of Cosmunes River at Wisconsin Bar. A. S. Bosquit, Clk. of Bd. of Supervisors. WILLOWDALE, ONT.-Bids are asked until Aug. 27 for the construction of the steel superstructure of a hridge over River Rouge, consisting of two 54-ft. span, 14 ft. wide. Peter S. Gibson & Son, Willowdale, Engrs. EDMONTON, N. W. TER.-Bids are agked until Sept. 13 for the construction of the superstructure of a railway and general traffic bridge at Edmonton; cbeck, \$7,000. Ad-dress, E. F. E. Roy, Secy. Dept. of Puh. Wks., Ottawa.

BUILDINGS.

ST. ALBANS, VT.-Bids are asked by the superviaing architect, Washington, until Sept. 19, for the steam heating and ventilating apparatus for the U. S. building in this city, as stated in our advertising columns.

BEVERLY, MASS.-The contract for the construction of a achool building in this town is reported to have been let to S. R. Dexter, of Beverly, at \$39,701. Boiger & Regan received the heating contract at \$4,250.

BOSTON, MASS.—Plans are heling prepared, according to reports, for a brick and stone dwelling to be erected at Beacon and Hereford Sts., for E. C. Swift, 46 Ames Bidg., at a cost of about \$75,000. Archs., McKim, Mead & White, 160 5th Ave., New York.

NORTH ADAMS, MASS.-It is reported that Porter & Harnum, of North Adams, has been awarded the contract for the erection of a \$125,000 hotel hullding on State St. for P. J. Boland.

for P. J. Boianu. ITHACA, N. Y.—Pians are stated to have been complete for the new chemical laboratory to be erected for Cornel University, to cost about \$45,000. Work is expected to be gin at once, and to he completed hy June, 1899.

University, to cost about \$45,000. Work is expected to be-gin at once, and to he completed hy June, 1899. NEW YORK, N. Y.-Bids are asked by the department of public charities, foot of East 26th St., until Aug. 30, for the materials and work required for alterations to the old building on the pier of the department, foot of East 26th St. Archs., Horgan & Slattery, 1 Madison Ave.—Plans have been filed by Levi P. Morton, for a 12-story brick office huilding at 110 to 116 Nassau St., to cost \$250,000. Archs., Clinton & Russell, 32 Nassau St., to cost \$250,000. Archs., Clinton & Russell, 32 Nassau St., to rest \$250,000. Archs., Clinton & Russell, 32 Nassau St., to rest \$250,000. Archs., Clinton & Russell, 32 Nassau St., to rest \$250,000. Archs., Clinton & Russell, 32 Nassau St., to Peter Wagner, 215 West 106th St., for fonr 4-story hrick dwellings on 95th St., west of Central Park, to cost \$200,000. Arch., G. Fred. Pelham, 503 5th Ave.; by Wm. H. Lake, Yonkers, N. Y., for five 3-story brick dwellings at 154th St. and St. Ntbolas Ave., to cost \$75,000. Arch., Henri Fouchaux, 11th Ave, and 1620 St.; hy Bell & Groth, St East 125th St., for three 5 and 6-story hrick flat huildings, at 3d and Boston Aves., to cost \$75,000. Arch., C. A. Miller, 81 East 125th St.; hy M. L. Fane, 239 East 22d St., for a 5-story and basement hrick atore and loft huilding at 8th Ave. and 36th St., to cost \$50,000. Arch., F. P. Dinkelberg, 3 Union Square West; hy Stewart & Smith, 459 Boulevard, for seven 5-story brick dwellings at 106th St. and River-side Drive, to cost \$140,000. Arch., Clarence True; hy E. B. Grigshy, for a 5-story hrick and stone dwelling at 55 East 67th St., to cost \$50,000. Arch., Chile & Lucas, 1183 Broatway.—Thos. J. Relly, 170 5th Ave., is re-ported to have heen awarded the contract for the con-struction of a 11-story freproof botel huilding at 5th Are. and 45th St., for the Mathew Byrnes Estate, to cost about \$750,000. Archs., J. O'Rourke & Sons, 7 Clinton St., New-ark, N. J.

ark, N. J. NEW YORK, N. Y.-Bids sre asked by the department of charities, toot of East 26th St., nutil Sept. 6, for the re-moval of o'd chimney and three old bollers, erection of scif-supporting steel stack, four new down-draft bollers, erection of derrick and coal yard, and certain repairs. additions and alterations to steam-heating apparatus at Almshouse, Blackwell's Island; two bonds required. 38,000 each.---Press reports state that a 17-atory brick and stone hotel huilding will soon be crected for a syndicate at southwest corner of Park Ave. and 42d St., to cost about \$1,000,000. Plans are now being finished. Arch., Bruce Price, 1133 Broadway,

TOMPKINSVILLE (S. I.), N. Y.-Bids are asked until Sept. 15 for erecting the Plum Beach light-house, R. I. as stated in our advertising columns. Lt.-Col. D. P. Heap, U. S. Engre.

J. S. Engre. CAMDEN, N. J.—Plans will be received by the commis-ioners of public instruction, at Broadway and Clinton Sts., until Aug. 30, for a new high school building, to be receted at Haddon and Newton Aves. Chn., Cornelius heperkotter.

Sheperkotter. ELIZABETH, N. J.—It is reported that plans are being prepared for a new gothic church hullding, 130×10 ft., to be erected for the Central Baptist Church on Jerzey Are. Pastor, Dr. E. T. Tomlinson; Archs., A. F. Leicht and P. T. Camp, 97 Cedar St., New York.

LANCASTER, PA.-McLaughlin & Gersell, 220 East Wal-nut St., Lancaster, have received the contract for the con-struction of a building for the Lancaster Inssne Asylum, at \$71,956, according to reports.

nut St., Lancaster, have received the contract for the construction of a building for the Lancaster Insane Asylum, at \$71,956, according to reports.
 PITTSBURG, PA.-The Central Methodist Episcopal Church, of which Dr. C. E. Moyg is pastor, contemplates the erection of a new church building at Academy and Franklin Sts., on property recently purchased.
 VILLA NOVA, PA.-It is reported that the preliminary work for the erection of new monastery and college building at the place will hegin next month; total estimated cost, \$250,000 to \$300,000.
 WODVILLE, PA.-The following hids were received by the commissioners of Allegheny county Aug. 16 for the construction of the new insane asylum building at the construction of the new insane asylum building at the construction of the new insane asylum building at the construction of the new insane asylum building at the contract on the new insane asylum building at the contract on the new insane asylum building at the construction of the new insane asylum building at the construction of the new insane asylum building at the contract of the new insane asylum building at the state of hids received Aug. 3, D. P. Osterling was the lowest bidder, at \$237,000. The following hids have been restored by the district commissioners for the construction of a sdiltonal story to police station No. 8 U St., between 9th and 10th Sts. N. W. George W. Corbett, 55,100; J. M. Dunn, \$4,900.
 BALTIMORE, MD.-The following hids were received by the supervising architect, Aug. 22, for modifications and repairs to the heating and ventilating apparatus, etc., of the supervising architect, Aug. 22, for modifications and repairs to the heating and ventilating apparatus, etc., of the supervising architect, Aug. 22, form doifications and repairs to the heating and ventilating apparatus, etc., of the supervising architect, Aug. 22, form doifications and repairs to the heating and ventilating apparatus, etc., of the uservising architect, Aug. 22, fo

Vehilisting Co., Philadeipnia, ra., \$1,804, Sept. 25. RALEIGH, N. C.-J. D. Elliott, Hickory, N. C., was awarded the contract, Aug. 20, by the trustees of the North Carolina Institution for the Blind, for erecting a new hrick dormitory at the negro department, to cost \$11,500; and also for the erection of a power house, the machinery for which is to be bought later, and a new dormitory at the white department, to cost \$45,000. GROVE HILL, ALA.-The commissioners of Clarke county have decided to erect a \$15,000 court house.

CHAMPAIGN, ILL-It is reported that the Illinois trail R. R. Co. has awarded the contract for huliding station at Champaign to Swift & Go., who are now e the Big Four shops in Urbana. The structure is patterned after the Illinois Central station st Kar hurvill be 50 feet longer.

hut will be 50 feet longer. CHICAGO, ILL.-The Northwestern Terminal Elevator, at Market St. and the Chicago River, was desiroyd by fire Aug. 20. causing a total loss of \$350,000. Of this amount \$30,000 fell upon the Chicago & Northwestern Ry. Co., whose freight yards are nearby.-The Falkenau Construction Co., 116 Chicago Stock Exchange, has been awarded the contract for the construction of a 6-story freproof huilding, 40 × 100 ft., to be erected at 252 and 284 5th Ave., for Charles Yondorf, at a cost of shout \$35, 000. Arch., Dankmar Adler, 27 Auditorian Bidg.-A per-hit has heen granted to the fillhois Central R. R. Co. for a 2-story brick roundhouse, 64 × 80 ft., and a 2-story ma-chine shop to be erected at the foot of 27th St.; cost, \$50,000.

CHICAGO, ILL.—Bids are asked by the department of public works until Sept. 1 for the steam heating apparatus, including holler, for the 47th St. police station, now being erected at 47th and Paulina Sts. Comr., L. E. M'Gan.— Bids are asked by the board of education, Schiller Bids, until Aug. 26, for the sheet metal work at workshop at 161 West Monroe St.

161 West Monroe St. LAHARPE. ILL.-Blds are asked until Sept. 9, accord-ing to reports, for erecting a 2-story brick school bulld-ring, 77 × 75 ft., at this place, to cost about \$12,000. Archs., Geo, W. Payne & Son, Carthage, Ill. MANITOWOC, WIS.-Blds are asked until Sept. 8 for the plumhing and steam heating in the bullding of St. Francis Hospital.

Hospital. SPRING VALLEY, WIS.-Bida are asked by the school board until Aug. 26 for the erection of a 4-room brick school building. Address W. G. Spence, Spring Valley. MORRIS, MINN.-Bids are asked until Sept. 7 for the erection of a brick dormitory building for the Morris In-dian Industrial School. Supt., W. H. Johnson. DES MOINES, IA.-The Capitol City Brick & Pipe Co., of Des Moines, has been awarded the contract for the con-struction of the west wing of the Iowa State Memorial Historical & Art building, according to reports, at \$47.651. DEM (MARC) AND Constant Memorial

OMAHA, NEB.—The following hids were received by the supervising architect, Washington, D. C., Aug. 16, for two hydraulic passenger elevators, one hydraulic mail lift and one hydraulic ash lift for the U. S. Building at Omaha: Crane Elevator Co., Chicago, III., \$10,000, 90 days: Olis Bros. & Co., New York. \$13,150, 90 days; Eaton & Prince Co., Chicago, III., \$10,100, 120 days.

HOT a report SEAT constru Capt. E MON

in this St. The

AUB us tha done t tenden

tenden ALE us tha bas be AMS that t vitrifie

vitrine laying of pij 2,120 lbs. to to ler length 100 in

tons i by Si 300 ll a lim Amst

largin and e 1. A end BU this

BU maki

cost DE prop this Cond

W.

CA ated the Cap pose at 1 Jam B. 1 to s tow F cityy Edv are Edv are J cel sup off na co f f Old ga 70,000 Edv F

\$8 pla vo su in

Cl tr ca E

Sup

prepare ing to \$80,000 ST. T

1., ap

ton be

Dg to

ty

by

HOT SPRINGS, ARK .-- A fire in this city, Aug. 20, de-troyed the National and Windsor Hotel buildings, causing reported loss of \$75,000. a rej

E. WASH.-Bids are asked until Aug. 20 for two bouses at Point Wilson. Harry Taylor, rs., Burke Bldg., Seattle. SEATT

TREAL, QUE.-It is reported that plans are being of for Wm. J. McDermott, of Craig St., for a build-replace the old Irish National Hall, to cost about MONT prepare ing to \$80,000.

\$80,000. ST. THOMAS, ONT.—Bids are asked until Sept. 7 for re-modeling and enlarging the court bouse of Eigin county in this city. Cik., K. W. McKay; Arch., N. R. Darragb, St. Thomas.

WATER-WORKS.

RN, ME.-E. S. Paul, Pres. Water Com., writes all the work for a better water supply is being the day, under the management of the superin-of water-works. AUBURN, us that done by

ANDRIA BAY, N. Y.-Col. O. G. Staples writes a special meeting to consider the question of works ALE? us that has been

us that a special meeting to consider the question of works has been called. AMSTERDAM, N. Y.-J. R. Snell, Supt., informs us that the city is getting bids for the following iron and virified pipe. The plans and specifications for dams and laying pipe, etc., are not quite ready. The quantities of pipe are as follows: 270 lengths of 24-in. iron pipe, 2120 lbs, to length; 280 lengths of 24-in. iron pipe, 2,349 lbs, to length; 280 lengths of 24-in. iron pipe, 4,070 lbs, to length; 197 lengths of 36-in. iron pipe, 4,070 lbs, to length; 10 lengths of 16-in. iron pipe, 4,070 lbs, to length; 10 lengths of 16-in. iron pipe, 1,152 lbs, to length; 100 lengths of 20-in. iron pipe, 1,152 lbs, to length; 100 lengths of 20-in. iron pipe, 1,152 lbs, to length; 100 lengths of 20-in. iron pipe, 1,152 lbs, to length; 100 lengths of 20-in. iron pipe, 1,152 lbs, to length; 100 lengths of 20-in. iron pipe, 1,152 lbs, to length; 100 lengths, the process, to be good, sound castings, tested to 290 lbs, pressure; weight in total to average as above, but a limit of variation in individual pipe of 4%. All f. o. b. Amsterdam. 20% limit of variation in reducing or en-larging order. Note price for delivery beginning Sept. 1 and ending April 1, 1890; 50% to be delivered before Dec. I. Also price for winter delivery to begin April 1 and end July 1, 1890.

BUFFALO, N. Y.—The residents of Kenmore have asked his city to supply the suburb with water. 31 1

this city to supply the subtro with water. BUFFALO, N. Y.-Bids are asked until Aug. 31 fi making repairs and additions to the pumping station, cost about \$10,000. R. G. Parsons, Secy. Bd. Pub. Wks

DEDRFIELD, N. Y.-The town board has accepted the proposition of the West Canada Creek Water Co. to supply this place with water. Secy., E. D. Mathews; Clk., P. D.

His prace with water. Secy., E. D. Mathews; Clk., P. D. Condon.
WHITESBORO, N. Y.-This place will probably soon vote on the question of building gravity works.
CALDWELL, N. J.-The Caldwell Water Co., Incorporated Aug. 8 to supply this section with water, has asked the borougb council for a franchise to establish works.
Capital stock, \$50,000, with \$2,000 paid in. It is proposed to get a supply from driven wells, which would be at least 500 ft, in depth. The promoters of the company will meet a committee appointed by Mayor Jacobus. Pres., James Bowers; Seey, and Counsel, Walter Lindsley. M. 8, Lindsley, Treas., writes us that the company proposes to supply caldwell, township of Caldwell, North Caldwell, North Caldwell, North Caldwell, North Caldwell, North Caldwell, School, N. J.-The council proposes to build city works, at a cost of about \$40,000, according to reports. Edward B. Allen, Furman Williamson and Geo. H. Large are interested.

HIGHBRIDGE, N. J .- This place is considering the quesof building works

tion of building works. JEESEY CITY, N. J.—The street and water board re-ceived but one bid Aug. 18 for furnishing a new water supply. It was from Patrick H. Flynn, Brookiyn. He offered to furnish water by any one of three plans. The first names as the source of supply the Rockaway River, at 0d Boonton, with one reservoir. The price of a million gallons varies from \$36 for, 25,000,000 gallons to \$20 for 70,000,000 gallons. The price named for the completed works is \$7,595,000 for a 50,000,000 gallon pipe line, or \$8,745,000 for a 70,000,000 gallon pipe line. The second plan is the same except that it contemplates three reser-voirs. The water is to be furnished by gravity at a pres-sure of 210 ft. above mean tide. The third bid was informal and was not considered. SALEM, N. J.—Joseph H. Young and C. J. Young, 4618

informal and was not considered. SALEM, N. J.-Joseph H. Young and C. J. Young, 4618 Chester Ave. Philadelphia, have been awarded the con-tract for building the filtration plant of 500,000 gallons capacity at Sslem, as advertised in Engineering News. Engr., C. Hungerford, 116 West 69th St., New York. BEAVER FALLS, PA.-The People's Water Co., It is reported, will proceed with the construction of its pro-posed works, which was prevented during the summer by the supreme court; estimated cost, \$100,000.

EVANS CITY, PA.-Bids are asked until Aug. 29 for furnishing and laying 13,600 ft. of 4 to 8-in. water pipe, a pumping station, reservoir, a 200,000-gallon pump, a gas engine, etc. Engrs., J. P. Leaf, Rochester, Pa.; Pres. Council, Geo, Fehl.

Council, Geo, Fehl. IIARRISVILLE, PA.-This place voted Aug. 23 on the question of issuing \$7,000 in bonds for works. MILLHALL, PA.-A charter and franchise have been granted to the Millhall Water Co. The company will issue 5% bonds and start with enough takers to pay interest on bonds and running expenses. Capital wishing an invest-ment with proper bonus can address Jas. P. Hardic, Will-iamsport, Pa., or Thomas Harmon, Lock Haven, Pa. PATTON, PA.-The Patton Water Co. has asked for bids for furnisbing and laying a 6-in. main in several streets. Supt., E. C. Brown. PORT GRIFFITH. PA.-James P. Hardic. Williamsport.

PORT GRIFFITH, PA.-James P. Hardic, Williamsport, Pa., water-works contractor and builder, has just completed the laying of 1,150 ft. of 6-in. cast-iron pipe across the Sus-quehanan River, and several hundred feet on isad, con-acting with mains leading to the Pennsylvania Coal Co.'s braker at Port Griffith, Pa. The river pipe was laid in four days' tine with a gang of five meni; average depth of water, 3½ ft. Fred, D.ttmar, of Williamsport, Pa., did the calking. calking

calking. CUMBERLAND, MD.-Bids are asked until Sept. 5 for furnishing 9 dozen 4-in. corporation cocks; 9 dozen 1-in. stops; 2 dozen 1-in. cocks; 2 dozen 1-in. stop-cocks; 5,500 ft. of pipe, valves, boxes, packing, etc. H. M. Fuller, Cik. POCOMOKE CITY, MD.-Bids are asked until Sept. 7 for furnishing and constructing works and a sewerage system, as stated in our advertising columns. Engrs., Pownall & Minshall, 150 Nassau St., New York; Mayor, R. M.

LURAY, VA .- The question of building works is being con

MARION, N. C.-J. A. McDonald, Mayor, writes us that 8 private company is making estimates for works: popula-tion. 5.200. J. D. Burgin, Old Fort, N. C., may be ad-dressed.

ARLINGTON, GA .- The question of issuing bonds for rks and a light plant will probably soon be voted on.

COLUMBUS, GA.-L. H. Chappell, Mayor, writes us that to plans or appropriation has yet been made for artesian vells for a new water supply. The mayor wishes to secure he services of a party who will sink the well at bis own ite the risk

GREENSBORO, GA.-This place is reported to have voted Aug. 9 to issue \$22,000 in bonds for works. J. B. Williams, Mayor.

Mayor. BESSEMER, ALA,--Councilman W. J. Long writes us that the contract for increasing the supply, eniarging res-ervoirs, etc., of the works of the Bessemer Water-Works Co. was recently let to Henry F. De Bardeleben at \$5,000. DICKSON, TENN.-The question of securing a water sup-ply from Pain Spring is being considered by the Dickson Business League.

Business League, MOUNT STERLING, KY.—The council is reported as ar-ranging for the construction of the proposed works. Mayor, Geo, W. Baird; Chn. Com., R. M. Burbridge. CHURURUSCO, IND.—The Seckner Contracting Co., The Rookery, Chicago, has been awarded the contract for huld-ing works and a light plant at \$18,500.

CLARKSVILLE, IND.-Press reports state that the alder-men are making strangements to put in a filtration plant and to improve the works at a cost of about \$25,000.

EAST CHICAGO, IND.-The contract for extending the rorks has been let to the Seckner Contracting Co., Chleago, t \$36,900.

y Jan. 1. OSCEOLA. IA.-J. W. Brown, Mayor, writes us that a ommittee has been appointed to decide upon plans for orks. L. W. London, Chn. Com. LANFSBORO, MINN.-Bids are asked until Sept. 5 for prelishing and building complete works. O. M. Halberstad, "libage Clk. works.

Village Clk. SPARTA. MINN.—Bids are asked until Sept. 9 for the purchase of \$1,750 6% water bonds. E. McHale, Pres. SPARTA. MINN.—The Virginia Iron Works, Virginia, Minn., and Jas. Dowling, Eveleth, Minn., submitted the only bids for huilding works at \$7,992, and \$5,450, respec-tively. Clyde Bender, Reedr.

WALNUT GROVE, MINN .- This place has voted to build orks to cost about \$3,500.

WAMEGO, KAN.-H. V. Hinckley.Topeka, Kan. has been ngaged to prepare plans and specifications for works, and o superintend the construction.

to superintend the construction. WELLINGTON, KAN.--S. N. Brooks. Mayor, writes us that nothing definite has yet been decided unon in regard to works. The city is yet figuring on works. Population, 3,600. TFHAMAH, NEB.-An election will soon be held to vote on the question of issuing \$2,000 in bonds for extending the works. works

on the question of issuing \$2,000 in bonus for extending the works. SIOUX FALLS, S. DAK.—It is estimated that municipal works can be built for about \$90,000. ANACONDA, MONT.—Bids are asked until Sept, 5 for fur-nisbing this eity with a water supply for five years. About 50 hydrants are now used, but this number will be in-creased. T. O'Leary, Cy. Clk. ST. JOSEPH, MO.—J. R. Rackliffe, Cy. Engr., writes us that the eity is ready to make a contract for the construc-tion of the proposed new works, under either private or municipal ownership. The works will include two low-service pumps of 8,000,000 gallons each: three high-pres-sure of 5. S and 10,000,000 gallons each: three high-pres-three settling basins, a fliter with a capacity of 15,000,000 gallons, 11,000 tons of iron pipe, 600 hydrants, 225 tons of special castings. 500 valves, and a number of meters; eati-mated cost, \$800,000.

special castings, now quee, and a hundred of interest, the mated cost, \$\$00,000. WICHITA FALLS. TEX.--Chas. Carrol, Sedalla, Mo., has applied for a franchise for works and a light plant. FLORENCE, COLO.--Hiram Philps, Oriel Hidg., St. Louis, Mo., bas been engaged to prepare plans for works. The source of supply is Newton Creek Canon. about 11 miles distant, and 2.500 ft. above the city. The plans will be com-pleted about Oct. 1, and the proposition to issue bonds will then be voted on. Estimated cost, \$100,000. FOSSIL, ORE,--The council will probably soon begin the constident of the proposed works, to cost about \$6,000. MEDFORD, ORE.--A committee has been appointed to consider the advisability of building a reservoir and of en-larging the works. POPELAND, ORE --Residents of Woodstock and Ivanhoe

larging the works. PORTLAND, ORE.—Residents of Woodstock and Ivanhoe are circulating petitions to have the Bull Run main tapped. It is estimated that a 4-in, pipe would supply the present demands, and it is proposed to bring the line from the main connected with the upper reservoir along the Milwaukee Road for a distance of two miles. From this line the Ivan-bee and Woodstock pipe systems may be connected and resi-dents supplied. STENT CAL.—The question of sources

STENT, CAL.—The question of securing a water supply rom one of the nearby cities is being considered.

from one of the nearby cities is being considered. WHITTIER, CAL.—The question of issuing \$40,000 in bonds for new city works is being considered. FARMINGTON, UTAH.—E. A. Vail writes us that this village is having plans prepared for works which it is ex-pected to build this year. There will be required about 6,500 ft. of 16-in, pipe and 2½ miles of smaller pipe. IDAHO FALLS, IDAHO.—At the election held Aug. 9 this place voted a tie on the question of issuing \$20,000 in bonds for works.

works

ATWOOD, ONT .- The "Bee" is urging the construction works for fire protection. of PRESCOTT, ONT .- This place voted Aug. 18 to build

works. WINNIPEG. MAN.—Owing to arrangements not being completed, bids will not be opened Sept. 6 for a system of wells and pumping plant, as advertised in our issues of Aug. 11 and 18. H. N. Ruttan, Cy. Engr.; C. J. Brown, Cy. Cik.

BIRMINGHAM, ENGLAND.—Bids are asked until Sept. 13 for huliding 17½ miles of the aqueduct from Cleobury Mortimer to Hagley. The contract consists principally of providing and laying two lines of east-from pipe and laying only two lines of steel pipe, 41 ins. in diameter. Engr., Jas. Mansergh. 5 Victoria St., Westminster, London; Town Cik., Edward Orford Smith. Town

SEWERAGE.

BOSTON, MASS.—The following bids were received Aug. 18 for building brick and pipe surface drain in Selden St passageway and Capen St., Dorchester. T. H. Connolly, 85,531; J. P. O'Connell, \$10.501; Collins & Ham, \$11,338; T. H. & G. W. Byrne, \$12,117; J. J. Falvey, \$12,317; D. E. Lynch, \$12,933; Jones & Mechan, \$13,570; H. P. Nawn, \$14,457.

CLINTON, MASS.—Bids are asked by the Metropolitan Water Board, 3 Mount Vernon St., Boston, until Sept. 1 for constructing sections one and two of the system, as stated in our advertising columns. Wm. N. Davenport, Secy.

EVERETT, MASS.-The council has appropriated \$10,000 for a sewer in Hendersonville.

SPRINGFIELD, MASS.-The council is arrangl struct a sewer in Worthington St., at a cost \$15,000.

BUFFALO, N. Y.—Bids are asked until Sept. 2 for con-structing 63 to 44-in. brick sewers in Hampshire St., and for a 12-in, pipe sewer in Kenmore Avc. R. G. Parsons, Secy. Bd. Pub. Wks.

DUNKIRK, N. Y.-Bids are asked until Sept. 6 for huild-ing a 15-in, pipe sewer in Railroad Ave. W. C. Baugart-ner, Cy. Clk.

OSWEGO, N. Y.-The board of health hns ask engineer to prepare plans for a sewer in East to cost about \$1,200.

to cost about \$1,200. NEWARK, N. J.-The board of works has published notices of intention to build the proposed brick and pipe main sewer in Clinton Ave., from Chadwick Ave. to Cliu-ton Piace, with laterals in a number of streets, and fur 10 and 8-in. sewers in about 20 streets to connect with the East Branch intercepting sewer. WOODBRIDGE, N.J.-Press reports state that bids will be asked by the township committee at once for building a portion of the proposed system. Des. Engr., C. C. Hom-mann.

mann.
 MANSFIELD, PA.—Councils are reported to have voted to begin at once the construction of 15 to 10-in. pipe sewers for the proposed system.
 McKEE'S ROCKS, PA.—E. F. Hughes has been awarded the contract at \$5,000 for building certain sewers.
 OAKMONT, PA.—This place has voted to issue \$37,000 in honds for local improvements; of this amount \$21,000 will be for sewers and \$16,000 for streets.
 PHILADELPHIA PA.—The residents of the 17th, 18th

will be for severs and \$16,000 for streets. PHILADELPHIA, PA.—The residents of the 17th, 18th and 20th Wards are agitating the question of larger sewers in that section of the city. SHERADEN (ALLEGHENY COUNTY) PA.—This place has voted to spend \$5,000 for sewers and \$5,000 for streets. POCOMOKE CITY, MD.—Bids are asked until Sept. 7 for furnishing the materials and for constructing a system and water-works, as stated in our advertising columns. Engrs., Pownall & Minshall, 150 Nassau St., New York; Mayor, R. M. Stevenson.

RICHMOND, VA.-W. E. Cutshaw, Cy. Engr., writes us that the committee on streets will hear allegations for the construction of certain sewers, after which its recommenda-tions will be submitted to the council for action. It is probable that blds will be asked about the middle of Sentember September

September. GAINESVILLE. GA.-Survey and estimates for a system, it is reported, will soon he made. NASHVILLE, TENN.-The city engineer has asked for bids for building a 10-in. pipe sewer in Public Square. HENDERSON, KY.-Bids are asked until Sect. 6 for constructing a sewer in Washington St. W. I. Thompson, Mayor. May

MANSFIELD. O.-Bids are asked until Sept. 17 for build-ig a 30 and 27-in. storm water sower in certain streets. C. Burns, Chn. Com.

J. C. Burns, Chn. Com. TIFFIN, O.-Bids are asked until Sept. 5 for changing the main sewer in the 4th ward. J. B. Ehrenfield, Cv. Cik. YOUNGSTOWN, O.-Bids are asked until Sept. 5 for the purchase of sewer bonds, F. C. Brown, Cik. CICERO, IND.-Bids are asked until Aug. 27 for eon-structing a sewer in Spring St. G. J. Holl, Town Cik. KOKOMO, IND.-The council is reported by local papers to bave voted to build a 4-ft. brick sewer in Union St. BLCIMMAND, UND.-Bids are asked until Sept. 16 for

RICHMOND. IND.-Blds are asked until Sept. 16 for building the North F St. brick and pine trunk sewer to be 2.500 ft. long: bond, \$10,000. J. H. Winder, Cik.; H. L. Weber, Cy. Engr.

Weber, Cy. Engr.
COLDWATER, MICH.—Bids are asked until Sept. 1 for building 18 to 10-in. pipe sewer, etc., in certain streets, to cost about \$900, and for paving to cost about \$9,000.
We are informed that the hids received for this work Ang.
16 were rejected. P. H. Sweeney, Clk.
LAURIUM, MICH.—This place, which voted July 23 to issue \$35,000 in bonds for a system, will probably ask for hids in December for the construction. Des. Engr., Chas.
F. Loweth, 94 E. 4th Ave., Minneapolis, Minn.; Clk., Jos. R. Murphy.

Loweth, 94 os. R. Murphy.

owner of \$5,500. Des. Engr., H. E. Riggs, The Nasby, Coledo.

KENOSHA, WIS.-Bids are asked by the city clerk for onstructing 50 eatchhasins.

RACINE, WIS.--It has been decided to build a sewer in 16th St. at a cost of about \$4,000. WAUKESHA, WIS.--Bids are asked until Sept. 2 for furnishing the material and constructing pipe sewers in certain streets. H. E. Blair, Cy. Comptroller.

SOUTH OMAHA, NEB.-It is proposed to build sewers in certain streets in South Omaha.

ANACONDA, MONT.-Patrick Waish has been awarded he contract for building sewers in Districts 7, 8, 10 and 1. st \$4,636.

DENTON, TEX.-This place is reported as considering he question of building a system. SAN SABA. TEX.-Bids are asked until Sept. 1 for con-tructing a sewer to the river; check, \$500. Jno. Seiders, bunty Indexe

structing a se County Judge.

INDEPENDENCE, MO.-Andrew Rosewater, Bee Bidg., Omaha, is reported to have recommended a system which will collect the sewage of the city at two or more politis and dispose of it in air-tight tanks and by filtration. Estimated cost of two stations, \$35,000; estimated cost of main sewers inside the city limits, \$40,000. Mr. Rose-water's plan is for the city to issue \$75,000 in bonds, build

the plant for disposing of sewage and all the sewers nec-essary in the city. The council will take the report under consideration and probably call a special election. ST. LOUIS, MO.-Bids are asked until Aug. 26 for re-constructing about 1.025 ft. of the bottom of the Mill Creek main sewer. B. H. Colby, Sewer Comr., 311 New City Hall.

GRASS VALLEY, CAL.-The city trustees will probly soon call an election to vote on the question soon call ng a system

Duilding a system. CHARLOTTETOWN, P.E. I.—The council is reported as arranging for the construction of the proposed system, for which \$50,000 in bonds will be issued at once. Two sew-age pumping stations will be built. MONTREAL, QUE.—The aldermen are considering the question of the better disposal of the sewage. T. J. O'Nell, Secy. Road Com., and Aldermen Dupre and Wilson may be addressed.

GARBAGE DISPOSAL-STREET CLEANING

PORTCHESTER, N. Y.-The question of a better method for the disposal of the garbage, waste, etc., is being con-sidered, according to reports. HAZLETON. PA.-The council is considering the question of garbage collection, etc. Councilman Ferry may be ad-dressed

dressed. KNOXVILLE. TENN.—The question of building a plant is being considered, according to reports. BAY CITY, MICH.—The question of securing a garbage disposal plant is being considered. LOS ANGELES, CAL.—The council will ask for bids at once for sweeping the streets. Bids will be asked under three specifications. The first provides for the sweeping of the business section by machines; the second for the sweeping of the business district by hand, and the third provides for sweeping of that portion of the city outside the given business area by machines.

STREETS AND ROADS.

STREETS AND ROADS. PORTLAND, ME.—The county commissioners received the following bids Aug. 15 for paving the approach of portland hridge, as noted in our issue of Aug. 11: W. L. White labor. \$0.811: material, \$4,521; Maine & New Hampshire Granite Co., labor, \$2,336, material, \$3,858; Geo. S. Staples, labor, \$5,252; Fernald Bros, & Higgins, material, \$4,47. The contract has been awarded to the Maine & New Hampshire Granite Co. fo' the labor and to T. F. Griffin & Bro, for material. An arrangement is said to have been made between the latter two concerns by which the work will all be doue by T. F. Griffin & Bro, at the case bid, \$6,024. W. B. Allen, Chon County Comrs.; Geo. N. Fornald, Comr. Pub. Wks. Dotochester and will grant a public hearing Sept. 1. SOMEKVILLE, MASS.—Bids are asked until Aug. 29 by for did to poil and pave Rockford and borken stone sur-park Commission for 1000 cu. yds. of stop adding. 2,000 sq. yds. of gravel walk surfacing and yd90 sq. yds. of roadway foundation and broken stone sur-bange St., Boston. BRJSTOL, CONN.—Bids are asked until Aug. 31 by the

BRISTOL, CONN.—Bids are asked until Aug. 31 by the oard of selectmen for grading and graveling a section of ad between this place and Plymouth; check, \$500. Ho-art A. Warner, Fred. N. Marross and Anson Q. Perkins,

Selectmen. HADDAM, CONN.-Bids are asked until Aug. 31 by the board of selectmen for constructing and grading about 1.500 ft, of highway; bond, \$1,000. Eoh. P. Arnold, Willis A. Bonfoey and Chas. B. Northam, Selectmen. LITCHFIELD, CONN.-Bids are asked until Sept. 5, by the board of selectmen for arading and telfordizing a sec-tion of road from this place to Morris. Chas. Merriman. Pat. C. Burke, Newtong G. Tyler, Edgar D. Beach and Jerome D. Wheeler, Selectmen.

Jerome D. Wheeler, Sclectmen. NORTH BRANFORD, CONN.-Bids are asked until Aug. 31 by the selectmen for constructing paysments; bond, \$1,000 A. B. Hill, Engr., 82 Church St., New Haven. ALBANY, N. Y.-Bids are asked until Sent. 5 by the hoard of contract and apportionment for 11.000 sq. yds. of vitrified brick paying; 6.530 lin. ft, of 6-in. granite curb-ling; 270 lin. ft, of circular granite curbing; 270 000 sq. ft. of new hrick sidewalk; 10.000 sq. ft. of new 4-ft, fag side-walk and six receiving basins for Elm St. from Grand St. to Delaware Ave. Horace Andrews Cy. Engr.

to belaware Ave. Horace Andrews Cy. Engr. BUFFALO. N. Y.—The commissioners of nublic works Aug. 18 received the following lowest bids: For surfacing Ferry St., from Niagara to Massechusetts Sts., Barber Asshalt Paving Co., New York, \$14.532; for repaving Babcock St. with brick. L. H. Gipp, \$20,000, with asphalt, Henry P. Burgard, \$23,000, R. G. Parsons, Secy. Bd. BUFFFALO. N. V.—Bids are asked until Sent. 2 for street work in Niagara Souare. Address G. H. Selkirk, Secy. Park Comm.

LITTLE FALLS, N. Y.-Halliman Bros. have been awarded the contract to construct Ray St. and construct, pice, sewer and grade Loomis St. at \$4:430. The only other bid was that of Jas. Creagh, \$15,369. S. E. Babcock, Cy. Engr.

other bid was that of Jas. Creagh, \$15,369. S. E. Babcock, Cy. Engr. NEW ROCHELLE, N. Y.-The board of trade held a special meeting Aug. 11 to consider the proposition to bond the town for highway purposes. Action was deferred. C. W. S. Wilson, Village Engr.: G. R. Olney, Supt. Pub. Wks. PORTCHESTER, N. Y.-Rids are asked until Sept. 6 hv the village trustees for 19,850 sq. yds. of brick paving in three streets. J. A. Kirby, Engr. ROCHESTER, N. Y.-Rids are asked until Sept. 6 hv the village trustees for 19,850 sq. yds. of brick paving in three streets. J. A. Kirby, Engr. ROCHESTER, N. Y.-The council is prenaring to im-prove portions of Maple St., Post St., Front St., Center St., Chill Ave. Immel Place and Hudson Ave., by grading, paving, curbing and sidewalk.-The Warren-Scharf As-phalt Paving Co. New York. has been awarded the con-tract to construct an asphalt pavement on Clarissa St., from the river to Plymouth Ave., at §11,565, according to report. Edwin A. Fisher, Cy. Engr. SCHENECTADY, N. Y.-Bids are asked until Sept. 1 for the imcrovement of the two miles of the Troy and Schene-rady Turnpike, from the city line of Schenectady, easterly. C. W. Adams, State Engr., Albany, N. Y. TROY, N. Y.-Bids are asked until Aug. 30 for brick pav-ing on Harrison St., etc. E. Ogden Ross, Seev. Contracting Bd.

Bd.
ATLANTIC CITY, N. J.-A paving ordinance is under consideration by the city council which provides for the macadamizing of all the cross avenues between Con-necticut and Missouri Avea. twenty in number. Before amendment the ordinance provided for vitrified brick paving on certain streets. John P. Ashmend, Cv. Engr.
HASBROUCK HEIGHTS, N. J.-Bids are asked until Sept. 6 for macadam paving, etc., as stated in our adver-tising columns. Engr., Lemuel Lozier, Hackensack, N. J.; Cik., G. H. Kamsden.

CONSHOHOCKEN, PA.—The town council has passed an rdinance requiring owners of real estate on Cherry St. etween Eim St. and the Pennsylvania R. R. to pave, urb and gutter in front of their property. Jos. W. Cav-nagh, Pres.; Harry B. Heywood, Cik. betwe curb

anagh, Pres.; Harry B. Heywood, Cik. LANSDOWNE, PA.-The citizens will soon vote on a proposition to borrow \$15,000 for the purpose of improving the streets. Thos. G. Janier, Borough Surv. MAUCH CHUNK, PA.-The town council has voted to spend \$1,500 in the construction of about 700 yds. of mac-adamized streets, according to report. PHILADELPHIA, PA.-Bids are asked by the department of public works until Aug. 30 for sundry paving, grading, etc., in this city. Director, Thos. M. Thompson.

PHILLIPSBURG, PA.-Hugb E. Crilly, Allentown, has been given the contract to pare 1% miles of streets with brick at \$30,000, according to report.

PITTSBURG, PA.-Bids are asked until Aug. 27 by the county commissioners for the improvement of the Beaver road, the Library road and the Sbarpsburg and Kintanning road in Allegheny county; bond, \$60,000 for each of the three contracts. F. W. Patterson, County Road Engr., 29 Court House, Pittsburg.

READING, PA.-Tbe board of public works received blds Aug. 18 for 13,000 lin. ft. of curbing and 41,500 sq. yds. of asphalt paving, as noted in our hast issue. The bidders were: Pennsylvania Asphalt Paving Co., Phiadelphia; Alcatraz Co., New York; Richardson & Ross, and the Bar-ber Asphalt Paving Co., New York.

ber Asphait Paving Co., New York. WILMINGTON, DEL.-John Jacoby has been awarded the contract by the board of health to pave Lord St., be-tween Poplar and Lombard Sts. with brick. Simmons & Bro. were the only other bidders. ANNAPOLIS, MD.-Jos. Jewell was awarded Aug. 16 the contract to pave Prince George, Bladen and Compromise Sts. and Market Space. around the City Park. His bid was: Prince George St., \$2.710; Compromise St., \$460; Market Space, \$745, and Bladen St., \$593. Geo. Jewell, Cy.

CUMBERLAND, MD.—Bids are asked until Sept. 5 for furnishing vitrified paving brick, sand for street work, curbing and crossing stone and resetting curbing now in use, terra cotta pipe and oak and pine lumber. Howard M. Fuller, Clk.

M. Funer, Cik. ROCKVILLE, MD.—The county commissioners decided Aug. 19 to readvertise for bids for macadamizing 8 miles of the Rockville Pike. The appropriation is \$25,000.

of the Rockville Pike. The appropriation is \$25,000. MONROE, LA.-Bids are asked until Sept. 8 for 7,788 sq. yds. of vitrified brick paving on 6 ins. of concrete. A. A. Forsythe, Mayor. NEW ORLEANS, LA.-Bids are asked until Aug. 29 for asphalt paving in Rampart St. P. A. Rabouin, Comptroller. FRANKFORT, KY.-Bids are asked until Aug. 26 for the construction of an artificial stone or cement pavement at the corner of Main or Montgomery and St. Clair Sts. W. S. Dehoney, Mayor; Ben. Marshall, Cy. Clk. HENDERSON, KY.-Bids are asked until Sept. 6 for 2.000 cu. yds. of conglomerate gravel. Mayor, W. I. Thomp-son.

son. LOUISVILLE, KY.-The Assyrian Asphalt Co., Chicago, was awarded the contract Aug. 10 to pave three souares of Hepburn Ave. and one square of Von Borries Ave., with asphait at about \$21,000. Louis A. Mehler has been awarded the contract to reconstruct and pave 28th St., from Chestnut St. to Broadway and Magazine St., from 26th to 28th Sta., with vitrified brick. G. W. Gosnell received the contract to reconstruct several allevs and Frank Saffran the contract to lay the sidewalks on 9th St., from Grayson to Wainut Sts. Chas. F. Granger, Chn. Bd. Pub. Wks.

BOWLING GREEN, O.—A. Graham was awarded the con-tract Aug. 9 for paving North Grove St. at \$4.732. The other bids were: J. C. Carland. Toledo. \$4.976: W. C. Blystone, \$4.980. or \$4,866, according to which block was

COSHOCTON, O.-Bids are asked until Sept. 5 for the purchase of 15 street bonds aggregating \$22,500, which are issued for the purpose of paving Main 8t, with vitrified brick. Bids are also asked until Sept. 10 for 11,000 cu, yds. of excavation; 21,000 sq. yds. of brick naving; 6,900 lin, ft. of curbing, F. F. Wagner, Village Clk.

lin. ft. of curbing. F. F. Wagner, Village Cik. DAYTON, O.-Bids are asked until Aug. 29 for grading. graveling and paving with boulders, the alley south of Germantown St. from Summit to Greencastle Sts. J. L. Baker, Pres: J. E. Gimperling, Cy. Comptroller. NELSONVILLE, O.-Bids are asked until Sept. 10 for improving Chestnut St., as stated in our advertising col-umns. Asher Buckly, Mayor: Jas. Sharp, Village Cik. TOLEDO, O.-Bids are asked by the commissioners of Lu-cas county, until Sept. 13 for 1.225 cords of crushed lime-stone. Wm. M. Godfrey, County Audr.

YOUNGSTOWN, O.-Bids are asked until Sept. 12 for the aving of Scott St., between Wuck and Belmont Avenues. I. W. Cslvin, Cy. Clk.

INDIANAPOLIS, IND.-Bids are asked until Aug. 29 for grading and laying cement sidewalks on 13th St., from Hilinois St. to Capital Are., and for grading and brick nav-ing the first alley east of New Jersev St., from St. Clair to Pratt Sts. M. A. Downing, Chn. Bd. Pub. Wks.

Ing the first alley east of New Jersev St., from St. Clair to Pratt Sts. M. A. Downing, Chn. Bd. Pub. Wks. LAFAYETTE, IND.-The Indiana Construction Co., Don M. Roberts, Mgr., Terra Haute, has been awarded a con-tract for nine miles of cement sidewalk at \$22,000, accord-ing to report. W. K. Eldridge, Cy. Engr. LOST CREEK, IND.-Bids are asked until Sept. 5, ac-cording to report, by the county commissioners for the con-struction of new gravel roads in Lost Creek township. ROCKVILLE, IND.-Bids are asked until Sept. 10 for the improvement of six highways in Parke county, agggre-gating a total length of 16 miles, including arading, drain-ing, bridging and graveling. E. H. Owen, Auditor. COLDWATER, MICH.-The council has refected the bids received Aug. 16 for furnishing the material and construct-ing a brick pavement on concrete foundation on Chicago St. as advertised in Engineering News. New bids are asked until Sept. 1. The bidders were: J. J. Granville. Saginaw; John MoLoughlin, Detroit; and W. McLane, Coldwater. P. H. Sweeney, Cy. Clk.

CHICAGO, ILL.—Bids are asked until Aug. 31 for grad-Ing, curbing, and paving in a number of streets. L. E. Mc-Gann, Pres. Bd, Local Improvements.

Gann. Pres. Bd. Local Improvements. MANSFIELD, O.-Bids are asked until Sept. 12 for \$13,-600 six per cent. street improvement bonds, according to report; deposit, 10%. F. M. Remy, Cy. Clk. MILWAUKEE, WIS.-Theo. C. Froemming has been awarded the contract for macadamizing Galena St., from 4th to 7th St5, \$3,914, according to report.--The park board is planning to extend the Highland Boulevard. thus uniting West Park with the present boulevard. G. H. Benzenberg, Cy. Engr.

. CEDAR FALLS, IA.—The Likes Improvement Co., 1 Molnes, has received the paving contract amounting \$32,315, according to report.

KEOKUK, IA.—Bids are asked until Sept. 5 for 5.761 sq. yds. of brick, and 5.338 sq. yds. of macadam paying, etc. G. M. Walker, Cy. Engr. OMAHA, NEB.—Bids are asked until Sept. 2 for re-paving and resetting curbs on Poppleton Ave., from 2mh Ave. to 32d St. Jobn H. Butler, Chn. Bd. Pub. Wks.; Wm. Coburn, Secy.

Coburn, Secy. KANSAS CITY, MO.—Contracts were awarded a the public improvements committee of the coun-lows: Waiter Hickman, paving two alleys, §1,1 West, grading on Victor St. \$501; G. K. White, g 29th St., \$1,772; Wm. Trebey, grading on Lock \$423; Jos. Gasail, curbing on Walnut St., \$1,647; M maker, brick sidewalks, \$5026; Kansas City Cen-walk Co., granitoid sidewalks, \$929; Parker-W Co. granitoid sidewalks, \$929; Parker-W Co. granitoid sidewalks, \$026; Sansara Co., na-sidewalks, \$1,440. R. W. Godfrey, Secy. Bd. ST. LOUIS, MO.—Bids are asked until Sept. S structing a granitoid walk in Hyde Park; dep Also for constructing a granitoid walk in Ben deposit, \$120, M. L. Holman, Pres. pro tem; Foster, Secy. Aug. 11 by nell as fol-133; A. L.

140 × 60 ft. SIEGFRIED, PA.-We are informed that the Lawren Cement Co. expects to erect a number of fireproof m buildings and stock houses at this place for a new pla to have a daily capacity of 2,000 bbis, of Portland a common cements. Plans are now being prepared by La bury & Spackman, 1619 Filbert SL, Phfadelphia, contracts have yet been let.

contracts have yet been let. BENNETTSVILLE, S. C.-A company composed of C. S. McCall, D. D. McColl, C. M. Weatherly, M. A. J. Moore and others, has been organized with a capital stock of \$100-000, to operate a cotton mill. It is said that 20% of the capital stock will be subscribed in order to begin at one-the erection of a new mill. LEXINGTON, MISS.-The Lexington Compress & Olf Mill Co. will soon erect a cotton compress at this place, to cost about \$30,000. Pres., R. E. Wilburn; Seey. W. H. Durden. CUNCINNATI O.-The Lodge & Shipley Machine Tool

CINCINNATI, O.-The Lodge & Shipley Machine Tool Co. Informs us that bids were to be received until Aug. 24 for the erection of a brick and steel building. 300 x 90 ft., to cost \$18,000. A 100-HP, engine and a 125-HP, boiler will be installed. Arch., Bert Baldwin, Race and 5th Sts.

DAYTON, O.-A fire in this city, Aug. 14, damaged the lant of the Pasteur-Chamberiain Filter Co., causing a loss f about \$50,000.

LORAIN, O.-Bids are asked until Aug. 27 for the erec-tion of a new factory building for F. C. Whitmore. Arch. H. O. Wurmser, of Lorain.

H. O. Wurmser, of Lorain. NORWALK, O.-The Sprague Umbrella Co., whose plant was burned Aug. 9, causing a loss of about \$800.000 writes us that it is not yet ready to consider bids for the re-construction of the plant. PAINESVILLE, O.-The Robison Basket Co., of Paines-ville, informs us that bids are now being received for the construction of a new basket plant to replace the one totally destroyed by fire Aug. 7, and valued at \$72,000. It is ex-pected to erect three 2-story iron covered buildings, 40 × 200 ft., and one 1-story structural iron building, 100 tion of this will also be received in 30 days on the neces-sary equipment, including a 150-HP. Corliss engine, an electric light plant and general equipment for wood working machinery.

machinery. WELLSTON, O.-Lathbury & Spackman, Consulting Engrs., 1619 Filbert St., Philadelphia, have been retained by the Alma Portland Cement Co., of Wellston, as en-gineers to design and furnish specifications and to superin-tend the erection of a plant to bave an ultimate capacity of 1,000 bbls. a day. Construction is now under way and most of the contracts for machinery awarded.

MISCELLANEOUS CONTRACTS.

WHARF.-Chester, Pa.-The New Chester Wharf Co. roposea to build a wharf in this city this fail.

proposes to build a wharf in this city this has. BONDS.-Buffalo, N. Y.-Bids are asked until Sept. 6 for the purchase of \$466,004 of 3½% tax loan bonds. E. C. Knight, Comptroller. ENGINE.-New Orleans, La.-Bids are asked until Sept. 15 for furnishing a 150-HP, engine for the mint. C. W. Boothby, Supt. Mint.

15 for furnishing a 150-HP. engine for the mint. C. W. Boothby, Supt. Mint.
BONDS.-Tarentum, Pa.-Bids are asked until Aug. 31 for the purchase of about \$25,000 of 30-year 5% improvement bonds. F. A. Ready, Cik.
LEVEE.-St. Joseph, La.-Bids are asked until Aug. 31 for building the Kempe levee, below St. Joseph. Maj. J. H. Willard, U. S. Engr., 3232 Prytania St.
SUPPLIES.-Watervliet, N. Y.-Bids are asked until Sept. 23 for furnishing iron, steel, hardware, etc. Col. A. Mordecal, Ordinance Dept., Watervliet.
BONDS.-Dayton. O.-Bids are asked until Sept. 26 for the purchase of \$150,000 of levee and \$50,000 of 4% water bonds. J. E. Gimperling, Cy. Comptroller.
PIER.-New York, N. Y.-Bids are asked until Sept. 2 for building a new pier at the foot of Watts St., North River, Manbattan. J. S. Cram, Comr., Pier A.
COAL CONVEYORS AND TANKS.-Chicago. III.-Bids are asked until Oct. A for furnishing and erecting coal no our advertising columns. L. E. McGann, Comr. Pub. Wks.

Su

DRI the 01 \$80,00

HE. Sept. heads St., I

JET for or as st U. S.

DA const Rivel Engr

SUI

Sept. lumb Engr DO Bess acres cost

SU 16 f jumi adve

deposit, \$120. M. 4. Holman, Pres. pro tem.; Emory S. Foster, Seer.
 SEDALIA, MO.-Bids are asked until Aug. 29 for paying Ohio Ave. with cedar blocks. Jos. Starr, W. L. Jones, T. J. Brown, Com. on Sts. and Alleys.
 SPOKANE, WASH.-Geo. Latham was awarded the entract Aug. 10 for grading Mission Ave., from Dielson the contract of a sphalt Market S., SAN FRANCISCO, CAL.-The City Street Improvement Co. bas been awarded the contract to asphalt Market S., from 2d to 6tb St., at \$13,776. Thos. Ashworth, Sup. ANACONDA, MONT.-Arnold Mickels has been awarded the contract to asphalt Market S., from 2d to 6tb St., at \$13,776. Thos. Ashworth, Sup. ANACONDA, MONT.-Arnold Mickels has been awarded between Lincoin guich and Heinville, along the Little Blackfoot River, according to report.
 WEN SOUND, ONT.-It is reported that the ratepayee, will yote Aug. 25 on the proposition to borrow Site on the yurpose of macadam roads, for repairs and to buy a steam road roller.

MANUFACTURING PLANTS

PYRITES, N. Y.—The plant of the High Falls Sulphin-Pulp & Mining Co., at Pyrites, was destroyed by fire Aug. 21. The loss is placed at \$300,000; insurance, \$50,000. LODI, N. J.—John W. Ferguson is solid to have been awarded the contract for the erection of a new silk mill for Boetager Bros., to cost between \$75,000 and \$100,000. CHESTER, PA.—It is reported that Robert Weberhil & Co., engine builders, will erect a large foundry in this dit in the fail. It will be built on Seventh St., and will be 145 x 65 ft.

sq. re. DREDGING.—Oakiand, Cal.—The council is considering the ordinance for dredging Lake Merritt, at a cost of about (50,000. Conncilman Brosnahan may be addressed. HEADSTONES.—Boston, Mass.—Bids are asked until Sept. 17 for purchasing 10,000 American white marble headstones in slabs. J. McE. Hyde, Q.-M., 105 Summer

t, Boston. JETTIES.—Portland, Ore.—Bids are asked until Oct. 25 r constructing jettles for improving Saquina Bay, Ore., stated in our advertising columns. Maj. W. L. Fisk, S. Engrs.

5. Engrs. DAM.—Pittsburg, Pa.—Bids are asked until Aug. 25 for onstructing a coffer dam, at Heers Island, Allegheny Urer, according to reports. Maj. Chas. F. Powelf, U. S. ingr., Federal Bidg.

ngr., Federal Blog. SUPPLIES. —Fortress Monroe, Va.—Bjds are asked until suppl. 16 for furnishing cement, broken stone, yellow pine imber, steel beams, etc. Capt. Thos. L. Casey, U. S. ngr., 106 Cranby St., Norfolk, Va.

Imber, steel beams, etc. Capt. Those. stone, yenow pille
Imber, steel beams, etc. Capt. Those. L. Casey, U. S. Engr., 106 Cranby St., Norfolk, Va.
DOCKS.-Conneaut, O.--Reports state that the Pittsburg, Dessemer & Lake Erie R. R. Co. has purchased about 200 acres of land at Conneaut Harbor, for dockage purposes, to cost about \$350,000. J. H. Reed, Pres., Pittsburg, Pa.
SUPPLIES.-Norfolk, Va.--Bids are asked until Sept. 16 for furnishing and delivering cement, broken stone, Imber, steel beams, etc., at Fort Monroe, as stated in our advertising columns. Capt. Thos. L. Casey, U. S. Engrs. LAKE OUTLET.-Lake Manitoba, Can.-Bids are asked until Sept. 12 for exavating for a supplementary outlet for increasing and regulating the overflow at Lake Manitoba; check, \$4,000. Res. Engr., W. F. Gouin, Winnipeg; Seev. Pub. Wks. E. F. E. Roy, Ottawa, Ont.
CANAL.-Cbicago, III.-Bids are asked until Sept. 21 for constructing about eight miles of feeder of the Illnois & Masisaippi Canal, as stated in our advertising columns. L. Marshall, U. S. Engrs., 1636 Indiana Are., Chicago.
CEMETERY.-La Crew, Ia.-Bids are asked until Aug. 29 for preparing and enclosing a cemetery about three miles from this town. It will be 529:567 ft. There will for reupring and enclosing a cemetery about three miles from this town. It will be 529:567 ft. There will ron fence 2½ ft. high, etc. Address W. B. Seeley, La Crew, Ia.
FIRE ALARM SYSTEM, ETC.-Dailas, Tex.-The Distored actions and the supplementer of the super state state of the super state state of the super st

Tan iron ieles ar it might etc. Address w. B. Seeley, La Crew, Ia. FIRE ALARM SYSTEM, ETC.—Dailas, Tex.—The Dis-trict Messenger & Fire Alarm Co., granted a franchise for 25 years, and want to install a complete messenger service, fire and police call system, desires bids on boxes, indicators and registers, wire and construction material. O. G. Gor-man, in charge of construction, is receiving bids on ma-terial. R. H. Gambie, Secy. DRY DOCK, ETC.—Vancouver, B. C.—Press reports state that arrangements are now being made for a marine railway and dry dock. Reports have been received bere that the British government intends to send a regiment of infantry to he stationed at Vancouver, and that it will build a dry dock here and place the barbor iu a defensive condition.

condition. DRY DOCK.—West Superior, Wis.—The American Steel Barge Co. bas decided to build another dry dock at the plant in this city. Several months ago the company pro-jected the dock, but owing to the fact that there was not sufficient channel room for vessels to reach the site se-lected, construction could not be commenced until the coun-cil voted to extend the liues. After a hitter fight in the connel between the conflicting property interests, the al-dermen voted last night to make the necessary alterations and secure the dry dock for this city. A meeting of the company's officials will be beld Aug. 27 to approve the plans. plans

CONTRACT PRICES.

ASPHALT PAVING.-New Orleans, La.-The following bids were received Aug. 8 for asphalt paving in certain streets; the Barber Asphalt Paving Co.'s hid was for Trib-idad Lake Asphalt, while that of the Southwestern Alcatraz Asphalt & Construction Co. was for Santa Barbara, Cal, as-phalt, and the General Asphalt Co. will use rock asphalt; a A. C. Beil, Cy. Engr.:

Bids Received at New Orleans, La., Aug. 8, 1898, for Asphalt Paving .- Canal St. from Delta to Liberty.

| | 5 | Soutb wester Aicatraz | | |
|---|----------------------|--------------------------|----------------------|----------------------|
| Items. | Barber | Asphalt & | | Belden |
| | Asphait | Construc- | | &c |
| | Paving Co. | | Paving Co. | |
| [On square hlocks | \$2.38 | \$2.63 | \$2.65 | \$2.28 |
| Asphait pavement { On 6-in. concrete (regulation construct'n)42,000 | 2.81 | 2.90 | 2.73 | 2.65 |
| On 4-in, concrete | 2.16 | 2.45 | 2.22 | 2.49 |
| Concrete gutter bottoms 100 " " | 1.26 | 1.35 | 1.75 | 1.60 |
| Old carhstones relined aud reset 7,000 lin. ft | .12 | .15 | .14 | .10 |
| Cypress lumber | 15.00 | 15.00 | 17.00 | 18.00 |
| Brick per thousand | 16.00 | 16.50 | 16.00 | 20.00 |
| Cast iron | .02 | .03 | .02 | .025 |
| (12-in, glazed 2,300 lin, ft | .64 | .84 | .50 | .365 |
| 18-in. " 1,000 " " | .99 | 1.00 | .74 | .615 |
| Sewer pipe 20-in. " | 1.15 | 1.45 | 1.27 | .765 |
| 124-in. 900 " | 1.41 | 1.71 | 1.49 | .975 |
| 30-in. " | \$ 2,56 | 2.86 | 2.60 | 1.77 |
| 36-in. " | 3.75 | 4.05 | 4.10 | 2.73 |
| Total on square blocks | \$161,633 179,693 | \$180,932 192,272 | \$174,391 177,751 | \$161,594 177,134 |
| Camp St., Between Callipoe and St. 1 | Mary Sts. | | | |
| Sou | itb western | | | |
| | Aicatraz | Ayers | Beiden | General |

| Quan | |
|------|--|
| | |
| | |

| Quantities. | | Asphalt | Aspbalt & | Asphalt | & | Asphalt | |
|----------------------------------|--|-------------------------|-------------------------------|----------------|--------------------------|-----------------------|--|
| Asphalt pavement on concrete 12, | 450 sq. yds. | 22.72 \$2.72 1.62 | Const'n Co. \$2.60 1.30 | \$2.52 1.75 | Seeiy. \$2.65 1.60 | Co. \$2.83 1.17 | |
| | 500 ¹⁰ ¹¹ 900 ¹¹ ¹¹ 500 lln, ft. | .46 .15 | .42 | .45 | .45 | .41 | |
| Cypress lumber | 000 ft. B.M. | 16.00 17.00 | $14.00 \\ 15.00$ | 17.00 | 18.00 20.00 | $18.68 \\ 16.23$ | |
| Cast iron | | .02% | .02 | .02 7.50 | .021/2 9.40 | .021/4 | |
| wheel Buarda, | au cacarre | 20.00 | | | | | |

Total \$43,435 \$39,743 \$39,174 \$44,091 \$43,234 Class No. 1-13 cts. a sq. yd., 11½ cts. and 13 cts., respectively; new bridge stones, 40 cts. a sq. ft., 47 cts. and 50 cts., respectively; new curb stones, 75 cts. a lin, ft., 78 cts. and 50 cts., respectively; restoring opening made in pavement, \$3.00 a sq. yd., \$3.15 and \$3.28. Class No. 2-Repairing, etc., 13 cts., 15 cts. and 14½ cts.; Class No. 3-20 cts., 26 cts. and 23 cts.; Class No. 4-18 cts., 20 cts. and 21½ cts.

-

Total The hids for the work on Ciaiborne Ave., between Canal and Toulouse Sts., were the same as those for Camp St., ex-cept that of the General Asphalt Co., whose bid for rock as-phalt pavement on concrete was \$2.43 as q. d.; bids were submitted for 500 ft. of 18-in. glazed sewer pipe as follows, with totals for the whole work: Barber company, \$1 a ft., \$27,254; Alcairag company, \$0 cts., \$25,558; Ayers com-pany, 74 cts., \$25,163; Belden & Seely, 61]4 cts., \$26,277; Gen-eral Asp. Co., \$1.36, \$24,657. The quantities are as follows: Asphalt pavement on concrete, \$600 sq., yds.; concrete gut-the bottoms, 50 sq., yds.; new stone wings, bonds and curb-Ins. 4.500 sg. ft.; old curbing relined and reset, 1,000 lin. ft.; tyrress lumber, 3,500 ft. B. M.; brick, 10,000; cast iron, 11.200 lbs.; wheel guards, 10. ARTESIAN WBLL.—Frostburg, Md.—The council has awarded the contract to the Curry-West Co., Cumberland, Md., to drill a 5%-in. well about 600 ft., at \$2 a ft.

IRON WORK.-Portland, Me.-The following bids were re-ceived by Maj. R. L. Hoxie, U. S. Engr., 537 Congress St., for the iron work, etc., for hatteries; G. M. Stanwood & Co. bid 3.7 cts. a lb. tor ammunition cranes complete; Scaife Foundry & Machine Co., Pittsburg, Pa., bid \$1.20 a lin. ft. for 5-in. 1-beams for trolley rall, etc., or \$30.00 for each trolley complete; Union Foundry & Machine Co., bid \$1.25 a lh. for ammunition cranes complete, \$35.70 for Yale & Weston blocks for ammunition cranes, each, and \$26.25 for same make of triplex blocks of ½-ton capacity each, and 1.6 cts. a lh. for roof beams, connection angles, etc.; Thomas Marshall bid 1.9 cts. a lh. for roof heams, connection angles, anchor hoits, and wall plates:

Items.

ENGINEERING NEWS.

Norfolk, Va., \$5.85. Dredging and rock excavation: Item 1, Rappahanock River, dredging; 2, the same river, rock excavation; 3, Urhanna Creek dredging, a cu. yd.: A. M. Clegg and M. A. Dugan, Washington, item 1, 29% cts.; 2, \$4.90; 3, 18 cts.; John Miller, Washington, item 1, 27 cts.; 2, \$4.90; 3, 19 cts.; Chas. W. Johnson, Lewes, Dei., item 1, 29 cts.; 2, \$6.45. HiGH WAY.—Trnro, Mass.—The following contract was let Aug. 18, 1898, to C. W. Snow, Taunton, Mass., for buid-ing a road in Truro; A. B. Fletcher, Secy. Massachus-tts State Highway Commission, Boston: 600 cu. yds. of exca-vation at 20 cts. a cu. yd.; clay, 600 cu. yds., 41.29; broken stone in place, 800 tons, \$2.00; total, \$2,494.

Bids Received at Portland, Me., for Iron Work for Batteries.

| | | Megquier | T. Carlins & Sons. | New Jersey Foundry & | T. Loughlin Co., | |
|--|-----------|----------|-----------------------|-------------------------|---------------------|--|
| • | Portland | & Jones | Allegheny. | Mach. Co., | Pittsburg, | |
| | Co. | Co. | Pa. | New York. | Pa. | |
| | \$0.051/4 | 00. | \$0.066 | \$0.07% | \$0.051% | |
| ranes, each | 4010073 | | 36.00 | 29.00 | \$0.001/8 | |
| | .06 | \$0.06 | | | .07 | |
| | .08 | .06 | | .041/2 | | |
| | .2-2 | .12 | | .06 | .07 | |
| | 13.00 | 6.00 | | .06 | .13 | |
| | 7.00 | 3.50 | | 15.00 | 6,50 | |
| plete with winch | 650.00 | | | 10.00 | 4.25 | |
| sliding holts, a pr. | 39.00 | 10 20 | 639.00 | 525.00 | 725.00 | |
| & sliding bolts, a pr. | 36.00 | 16.56 | | 45.00 | 19.00 | |
| th lock, a door | | 15,90 | | 42.00 | 18.90 | |
| | 20.00 | 9.00 | * * * * * | 35.00 | 10.50 | |
| te with lock, a door | 19.50 | 8.90 | | 30.00 | 10.40 | |
| ** ** ** | 19.00 | 8.75 | | 29.50 | 10.25 | |
| | 18.00 | 8.50 | | 29,00 | 10.00 | |
| | 18.00 | 8.25 | | 28.00 | \$9.5469 | |
| i, a lb | .031/4 | .02% | | | .04 | |
| for door frames, ib. g fastenings to roof | .02% | .031/2 | | | .05 | |
| | .40 | .35 | .65 | .48 | .50 | |
| | 7.00 | 6.50 | 10.00 | 9.50 | 7.00 | |
| pacity, each | | 37.00 | 27.00 | 27.50 | | |
| s and washers, each | 1.50 | 1.99 | | | 2.50 | |
| eacb | 1.15 | 2.50 | | | 3.00 | |
| olts, wall plates, Ib. | | .019 | .019 | .0.21% | | |
| | .20 | .20 | | | .02 | |
| | .08 | .05 | | .15 | .25 | |
| etc., a sill. | 3.50 | 3.00 | | .04 | .06 | |
| nchor plates, a boit. | 3.40 | | | 3.00 | 3.40 | |
| a cover | 7.00 | •••• | 7.50 | 4.75 | .04% † | |
| COVET | 1.50 | • • • | | 8.50 | | |
| | 1.00 | | .85 | 2.20 | | |

Items.
Ammunition cranes complete, a lb. ..., rost, for railing, a lb. ..., pipe, for railing, a lb. ..., pipe, for railing, a lb. ..., pine, for railing, a lb. ..., pipe, for railing, a lb. ..., a *8-in, deck beams for double trolley rails, including cast-iron hangers every 16 ft. for fastening to roof, and spilce-pleces per lin.ft. of double track, per drawing accompanying. "City pattern manhole, per print. "Price a ib."

BRICK PAVING.—Olean, N. Y.—E. E. Allen, Supt. St informs us that the following bids were received Aug. 1838, for brick paving, as advertised in Engineering New B. U. Taylor & Co. was awarded contract:

| Quantitles. | Sheehan & Mc- Ghan, Brad- ford, Pa. | Co., Williams- port, Pa. | r. K. Van Cam- pen, Olean, N. Y. | W. H. Simpson Olean, N. Y. | B. U. Taylor & Co., Olean, N. Y. |
|-----------------------|---|-----------------------------|--|-------------------------------|--|
| Excavation | \$0.28 | \$0.24 | \$0.30 | \$0.28 | \$0.20 |
| Brick pavm't*2,000 " | 1.49 | 1.45 | 1.36 | 1.38 | 1.29 |
| (4-in1,270 lln. ft | .44 | .40 | .36 | .33 | .35 |
| Curb { Reset . 30 " " | .12 | .10 | .10 | .10 | .15 |
| 4-in, cir 10 " " | .60 | ,60 | .42 | .40 | .53 |
| Drain tile 10 " " | .10 | .07 | .15 | .02 | .04 |
| Totai | \$3,829 | \$3,658 | \$3,486 | \$3,466 | \$3,235 |

*Concrete foundation

*Concrete foundation. REPAIRING ASPHALT PAVEMENT.—Brooklyn, N. Y. —The commissioners of highways received bids Aug. 2 for repairing and maintaining about 16 miles of asphalt streets from Cranford & Co., the Brooklyn Alcatraz Asphait Co. and the Eastern Bermudez Asphalt Paving Co., as follows: For

cts. and 21½ cts. DIKE, DREDGING, ETC.-Virginia.-The following bids were received by Lt.-Col. Chas. J. Allen, U. S. Engr., Washington, D.C., Aug. 6, 1898, for constructing a dike and for dredging, etc., as advertised in Engineering News: Dike in York River, Va., W. B. Bradley, Manchester, Va., \$6 a lin. ft.; B. F. Sweeton & Son, Camden, N. J., \$6.64; A. M. Clegg, Washington, \$8.28; The Degnon-McLean Construc-tion Co., 1 Broadway, New York, \$6.55; Sanford & Brooks Co., 21 S. Gay St., Baltimore, \$6.73; Justin McCarthy,

ron hangers every 16 ft. for fastening to roof, and spilce-icity pattern manhole, per print. †Priće a ib.
PROJECTILES.-Washington, D. C.-The following bids were received last week by the navy chief of ordinance for furnishing the following projectiles: Cast Steel-1,000
13-in., 1,000 12-in., and 600 10-in. Forged Steel-3,000
8-in., 5,000 6-in., and 600 10-in. Forged Steel-3,000
8-in., 5,000 6-in., and 600 10-in. Forged Steel-3,000
8-in., 5,000 6-in., and 5,000 4-in., The Midvale Steel Co., Philadelphia, 13-in., \$101; 12-in., \$84,50; 10-in., \$52,50; 8-in., \$20,14; 6-in., \$10,25; 5-in.
\$53,38; 4-in., \$5,390. Alternate, all of cast steel' and part of forged steel, as follows: 13-in., \$92,89; \$10,25; 5-in., \$5,38; 4-in., \$3,00; 11 awarded the entire contract, the prices will be as follows: 13-in., \$88,100; 12-in., \$5,39; 10-in., \$47,80; 8-in., \$25,77; 6-in., \$10; 5-in., \$5,39; 10-in., \$47,80; 8-in., \$25,77; 6-in., \$10; 5-in., \$5,39; 10-in., \$47,80; 10-in., \$81; 10-in., \$48, 50-in., \$5,39; 10-in., \$47,80; 12-in., \$81; 10-in., \$48, 50-in., \$5,39; 10-in., \$47,80; 12-in., \$81; 10-in., \$48, 50-in., \$5,30; 200 a week or the equivalent in weight of any size. Issac G. Johnsou & Co., Spayten Duyyil (P. O., New York), N. Y., 13-in., \$109; 12-in., \$81; 10-in., \$40,50; 300 a week after 60 days; 5-in., \$5,20, 300 a week after 700 days; 6-in., \$10, 250; 20 a week after 60 days; 5-in., \$5,20; 200 a week after 90 days. Taylor Iron & Steel Co., High Bridge, N. J., 13-in., \$102,82; 12-in., \$78,90; 10-in., \$40,50; commence in 90 days. May 100 a week and 200 if necessary. Cumberiand Steel & The Plate Co., Cum-beriand, Md, 13-in., \$105,40; 12-in., \$78,90; 10-in., \$40,20; commence in 90 days, 30 a week; 10-in., \$50,30 a week of any one size. Driggs-Seahury Gun & Ammuni-week (22-in., \$55,100 in S0, 30,3; 30 a week, 12-in., \$55,100 in S0 days, 30 a week, 12-in., \$57,60; 13-in., \$106; 12-in., \$50,50; 10-in., \$57,60; 8-in., \$27,50; commence in 70 days and 120 a week. United St

MACADAM ROAD.-Lunenburg, Mass.-The Massachu-setts State Highway Commission, Boston, received the fol-lowing hids Aug. 18, 1898, for huliding a macadam road in Lunenburg; contract was awarded C. H. Kelleher; A. B. Fletcher, Secy.: er. 57.

| Quantities. | . H. Kelleho Newburypo | L. J. Welling ton, Boston | F. E. Ellis, Melrose. | Asa Goddard, Worcester. |
|---------------------------|---------------------------|------------------------------|--------------------------|----------------------------|
| Excavation . 900 cu. yds. | \$0.25 | \$0.50 | \$0.50 | \$0.50 |
| Borrow 800 " " | .35 | .50 | .50 | .50 |
| Rubbie masonry: | | | .00 | .00 |
| Laid dry 92 " " | 3.00 | 4.00 | 3.50 | 2.50 |
| Laid cem't. 110 " | 6.00 | 8.00 | 6.50 | 5.00 |
| Gravel 200 " " | .55 | .60 | .55 | .50 |
| Shaping 5,309 sq. yds. | .02 | .02 | .02 | .02 |
| Broken stone 615 tons | 1.30 | 1.20 | 1.20 | 1.40 |
| Trap rock , 700 tons | 1.75 | 2.00 | 2.10 | 2.00 |
| 12-in, pipe 30 lin. ft | .60 | .75 | .60 | .60 |
| 18-ln. " 30 " " | .190 | 1.00 | 1.50 | 1.00 |
| Guard rail 250 " " | .15 | .20 | .20 | .20 |
| [Labor, pr hr. | .175 | .20 | .20 | .20 |
| Finishing Double teams | .50 | .50 | .50 | .50 |
| Single teams. | .30 | .30 | 35 | .35 |
| Stone mons 12 each | | 2.00 | 2.00 | 1.50 |
| | | | | |

Totals\$3,782 \$4,589 \$4,448 \$4,213

BRIDGE MASONRY.-Greenfield, Mass.-The following bids were received recently by the county commissioners for the magonry work for the Northfield hridge; Engr., E. S. Shaw, Boston:

| | | Fililng. | Bank |
|----------------------------------|-------------------|-------------------|---------------------|
| | lasonry piers, | grading, etc., | protect'n, etc., |
| | | a cu. yd. | a sq. yd. |
| *Ellls & Busweii, Wohurn | \$7,000 | | |
| L. F. Kittredge & Son, Lowell. | 9,443 | \$0.40 | \$1.35 |
| A. H. Wright & Son, Springfield. | 9.044 | .30 | 3.00 |
| Vt. Const'n Co., St. Alhans, Vt. | | 2,2001 | 1,780 |
| Wun. H. Ward, Lowell | 9,226 | | |
| Ward & Douglas, Barre, Vt | | | |
| Wail & Quinlan, Northfield | | 1,558 | 695 |
| R. S. Wilcox, Greenfield | | .24 | .37 |
| W. F. Flint Granite Co., Monson | | .30 | 1.00 |
| H. C. Wood, Westfield | | .50 | |
| †Cordner Bros., Chlcopee | | .25 | .30 |

*Awarded contract for masonry plers and cylinder plers for abutments; total, \$9,200. [Awarded contract for grad-ing, filling, hank protection, ctc., total \$1,496. The N. J. Steel & Iron Co., Trenton, has been awarded the contract for the substructure at \$22,355. [Totals. CURBING, CROSSING, ETC.-La Porte, Ind,—The follow-ing, stone closing slahs and gutter stone for crossing sets; the price for the stone closings and gutter stone is for a lin, ft.:

| ***** Fro. | | Cu | rbir | E. | | Stone | Gut- |
|-------------------------------|-------|------|-------|------|-------|---------|---------|
| | 1-11 | | | | | clos- | |
| Bidder. | 18 | 20 | 22 | 24 | 26 | lngs, | stones |
| | cts. | cts. | cts. | cts. | cts. | cts. | cts. |
| C. E. Moellering, Fort Wayne | .34 | 37 | 39 | 41 | 43 | 31 | 34 |
| W. W. Hatch, Goshen | .29 | 30 | 32 | 33 | 33 | 20 | 40 |
| C. L. Kinney, Eikhart | .26 | 28 | 30 | 32 | 34 | 20 | 27 |
| Rachor & Struss, La Porte. | .28 | 30 | 32 | 34 | 36 | 24 | 36 |
| A.Schneider & Co., Mlch. Cit | y31 | 33 | 35 | 37 | | 27 | 31 |
| SEWERS Kansas City, M | | | | | ng h | ids we | ere re- |
| ceived by Henry A. Wise, C | y.] | Engr | . A | ug. | 11, | for bu | ilding |
| brick and pipe sewers in Dl | strle | I Ne | 5, 17 | 5: | M. | Walsh | 's hid |
| man accounted . M Kinlin's hi | d w | h ze | ocla | hos | infor | ·innai· | |

Bids Received at Kansas City, Mo., Aug. 11, 1898, for Building Brick and Pipe Sewers in District No. 175. Cotter. R. J. Adam

| Quantities, Pipe 27-in 24-in 18-in 12-in 12-in 12-in 31-in. rick sewer | 1,044 iln. ft 1,403 ** ** 1,301 ** ** 1,166 ** ** 1,750 ** ** 234 ** ** 23 each | McDonueli & Co. \$2.58 2.17 1.30 .75 .68 .60 .50 3.67 38.00 | M. Walsh. \$2.10 1.85 1.05 .70 .46 .55 .40 2.30 25.00 | Boyd Pvg. Const'n Co. \$2.50 1.95 1.00 .71 .50 .60 .60 2.70 38.00 | Armstrong Cont. Co. \$1.98 1.76 1.08 .77 .44 .46 .44 2.38 23.00 | M. Kiniin \$2.10 1.80 .95 .67 .49 .49 .49 .259 30.00 |
|---|---|---|---|---|---|---|
| Lumber Concrete | 10,000 ft. B.M. 10 cu. yds. 1,400 llp. ft | .02 4.00 .25 | .02 3.00 .20 | .03 5.00 .40 | .03 4.50 .10 | .02 4.00 |

phalt, a sq. these bids be Asphalt Co.--cts., \$22.00, 1 cts., \$16.00,

\$2.00; total, \$4,755. WATER-WORKS.-Huntington, Mass.-R. D. Maynard, Springfield, Mass., has been awarded the contract for con-structing the works: Rubble masonry, a cu, yd., \$3.25; puddled earth, a cu, yd., 40 cts.; dry earth filling, a yd., 40 cts.; clearing and grubhing, a yd., \$3.00; iaying 10-1n. pipe, 51/2 ft. deep., 16% cts. a ft.; 8-in. pipe., 15% cts.; 6-in. pipe, 14.7 cts.; 4-in. pipe, 14 cts.; rock excavation, a cu. yd., \$2.50; huilding gate-house, \$150; total, \$6,611. SUDEWALKS CURBING ETC:-Kanasa City. Mo.-The

14.7 ets.; 4-In. pipe, 14 ets.; rock excavation, a cu. yd., \$2.50; huliding gate-house, \$150; total, \$6,611.
SIDE.WALKS, CURBING, ETC.-Kansas City, Mo.-The council recently lot the following contracts for laying side-walks, curns, etc.; Natural stoue sidewalks, Baltimore Ave., from 16th to 17th St., 18% ets. a sq. ft.; 6th St., from Forest to Tracy, 18% ets.; Th St., from Woodland to Brooklyn, 18 ets.; Bandera Flag Stone Co. Pressed hrick sidewalks, Matter and the 20th St., 5% ets., White & Redmond; Southwest Boulevard, from Summit to Madison, 8% ets.; C. Vincent; 9th St., from Cherry to Locust St., 5% ets., White & Redmond; St., Trestral Paving Co.; 36th St., Hoimes to Jansen Pl., 19% ets., M. Schoonmaker; 36th St., McGee, to Cherry, 15549 ets., M. Schoonmaker; 36th St., McGee, to Cherry, 1984, ets., M. Schoonmaker; Carhing, Sth St., from Wabash to Prospect, 9 ets al. in. ft., G. Kirn; Locust, 28th to 29th St., 10 ets., Joe Gasti; Grading, 23d St., from Wabash to Prospect, \$2200 et u., yd., J. Armatrong; grad-us alleys between Brooklyn and Park, 18th and 14th Sts., 45 ets., A. L. West; Wyandotte, Central, 10th and 11th, 46 ets., A. L. Smith.

46 cts., A. L. Smith. MACADAM ROAD.--Warren, Mass.--A. B. Fletcher, Secy. State Highway Corun., Boston, informs us that the following contract was let Aug. 11, 1898, to John S. Lane & Son, of Springfield, Mass., for huilding a macadam road: Excavation, 300 cu. yds., 35 cts.; excavation, borrow, 600 cu. yds., 40 cts.; ledge excavation, 10 sq. yds., \$2.00; rubhle masonry laid in cement, 60 cu. yds., \$4.00; gravel, 200 cu. yds., 50 ets.; telford, 100 sq. yds., \$2. cts.; shaping, 4,445 sq. yds., 2 cts.; hroken stone in place, 1,085 tons, \$1.80; vitrified rail, 100 ft., 15 cts.; finishing between limits-labor per hr., 20 cts.; double teams, 50 cts.; stonie teams, 35 cts.; stone monuments, 10, each, \$1.25; total, \$2,822.

SAND, CONCRETE, ETC.-Washington, D. C.-The hid of the Columbia National Sand Dredging Co. to furnish the city 2,250 cu. yds. of paving sand at 45 cits. a cu. yd., and that of John B. Lord to turnish the city with 4,000 cu. yds. of concrete sand at 50 cits. a cu. yd.; 1,000 cu. yds. of screened gravel at 60 cits. a cu. yd., have heen accepted hy the com-missioners.

Inissioners. DREDGING.—Norfolk, Va.—It is stated that the secretary of war has awarded the contract for dredging the channel room the sea to the Norfolk navy yard to the American Dredging Co. Philadelphia, Pa., at 14½ cts. a cu. yd. The uppropriation for the work amounts to \$360,000, and pro-cides for a channel 28 ft. deep and 450 ft. wide, a width of 150 ft, to he obtained first. This work is to be com-leted hy Dec. 1. The department was authorized to let the contract without advertising, and received an offer to do he work at 16 cts. a yd. By advertising and extending he time for the completion of the work until December a ower hid was obtained.

lower hid was obtained. RAILWAY SUPPLIES.-China.-It is reported hy Consul-General Goodnow that A. S. Forhes & Co., Tientsin, has been awarded the contract for furnishing 7,000 tons of railway supplies: Rails, \$20.20 a ton; fish plates, \$43,80; bolts, \$05.70, and spikes, \$58.40 a ton. In our issues of June 30 and Aug. 4, were published the hids for the various supplies.

and Aug. 4, were published the hids for the various supplies. ASPHALT STRIPS.—Brooklyn, N, Y.—Wm. N. Shannon, Deputy Comr. of Highways, received the following bids Aug. 16 for laying asphalt strips from 34th St. and Astoria ferries in Long Island City, to connect with the good roads in Queens leading out on Long Island: (1) being for the road-way of Fulton Ave., Boulevard, Broadway and Newtown Road, from the southerly side of Mills St. to Jackson Ave., Borough of Queens; and (2) for the roadway of Borden Ave., Jackson Ave., and Thomson Ave., from the coutherly side of Front St. to Woodside Ave., Queens, the foundation, stone block and wooden leaders being the same for both road-ways excepting that of the Waren-Schart Co. : Warren-Scharf Asphalt Paving Co.—Asphalt a sq. yd., (1) \$1.85, (2) \$1.80; concrete foundation, a \$4, yd., (1) \$4.50, \(2) \$4.25; stone block, a sq. yd., (1) 38 cts., (2) 35 cts.; wooden leaders, 1,000 ft., (1) \$22.00, (2) \$22.00. Barber Asphalt Paving Co.—As-

| $18.00 \\ 2.25 \\ .02 \\ 3.00 \\ .20$ | 33.00 3.00 .03 5.00 .40 | 25.00 3.50 .03 4.50 .10 | 18.00 3.00 .02 4.00 | tain, the v piaced cordin which office. |
|---------------------------------------|---|---|---|---|
| \$13,800 | \$16,546 | \$13,860 | | stand |
| -Asphalt, respective sphalt a | for both ope a sq. yd., (1 ly, bids san sq. yd., (1) | erations. Atl) \$1.96, (2) \$ he both oper | 5 ets., \$22.00, antle Alcatraz 1.98; \$4.44, 38 atlons. T. U. .80; \$4.20, 30 atlons. | NE \$100,0 nels, St., N J. Lo: 190 F New Gon |

INDUSTRIAL NOTES.

THE GILLETTE-HERZOG MFG. CO.; Minneapolis, Minn., has opened a new hranch office at Spokane, Wash. THE JACKSON & WOODIN MFG. CO., Berwick, Pa., is reported to have an order from the Bufalo, Rochester & Pittshurg Ry. for 200 gondois cars. TIPPETT & WOOD, Philipshurg, N. J., have just com-pieted a smoke stack, 140 ft. high, and a large water tower for the public buildings at Collins, N. Y. H. K. PORTER & CO., Pittshurg, are reported to have the contract for a complete compressed air haulage and power plant for the Pennsylvania Coal Co., Pittston, Pa. THE BICHMOND LOCOMOUNTER & MACHINE WORKS

THE RICHMOND LOCOMOTIVE & MACHINE WORKS, Richmond, Va., is reported to have a contract for 12 loco-motives for the Plant System, and for four locomotives from the Georgia & Alabama Ry.

THE NORTH PENN IRON CO., North Penn Junction, Philadelphia, has the contract for the structural steel work of the new engine and holier house of the Hagerstown Electric Ry. Co., Hagerstown, Md. THE LEECHBURG FOUNDRY & MACHINE CO., Leechhurg, Pa., will, it is stated, move its plant from that place to Homestead, Pa., before the end of the year. Mr. Geo. Mesta is President of the company.

THE GROTON BRIDGE & MFG. CO., Groton, N. Y., is about to open an office in Porto Rico, and is desirous of handling a line of first-class sugar and ooffee machinery. The company will be giad to correspond with manu-

THE CARNEGIE STEEL CO., Homestead, Pa., is reported to have a contract from England for 30,000 tons of 2½-in, steel billets, to be used in the manufacture of holts; also an order for 10,000 tons of plates for the city water-works, Sidney, Australia.

an order for 10,000 tons of plates for the city water-works, Sidney, Australia. THE BETHLEHEM IRON CO., South Bethlehem, Pa., reports that it has been asked to hid on the forgings for the engine and shafting of a torpedo boat to he built in Japan for the Imperial Japanese Navy. The line of shafts, in-cluding the thrust and crank shafts are to be hollow. The company states that it is the only American concern that has been asked to hid on this work. THE PHILADELPHIA ENGINEERING WORKS, Phila-delphia, is reported to have orders for a 300-HP, cross-com-pound condensing Corliss engine, with two 100-HP, vertical water-tube holiers for shipment to Yokohama, Japan; two-300-HP, horizontal cross-compound Corliss engines for ship-ment to China, and one 450-HP, vertical cross-compound Corliss engine for Honolulu, Hawaii. THE DAIMLER MFG. CO., 54 Wall St., New York, and 937 to 945 Steinway Ave., Long Island City, N. Y., has ac-quired all the real estate, plants, machinery, patents, etc., of the Daimler Motor Co. and will continue the business with enlarged facilities. The efficiency of the new company are: Pres., Frederick Kuebler; Vice-Pres., Horace Bacon; Treas, and Secy., Otto G. Nestle; Asst. Treas. and Asst. Secy., Adolph O. Krieger. The capital stock of the com-pany is \$500,000, of which \$400,000 is said to be paid in.

THE THACKERAY INCINERATING & FERTILIZING Co., San Francisco, Cai., has estahilshed a subsidiary cor-poration at Cincinnati, O., for the states of Ohio, Ken-tucky and Indiana and has also just formed another for the New England States, with offices in Boston, which will begin operations Sept. 1. Mr. Charles J. Okeil, Sey. and Treas., is now in New York for the purpose of establishing a branch office of the parent company. The company an-nounces that it has in San Francisco the largest incineration in the United States, and that the cost of incinerating garbage in that city is only 10 cits. a ton, owing to the fact that no fuel is required, the only expense built the fact that no fuel is sender. LATHBURY & SPACKMAN, 1619 Filhert St. Publicat

The second secon

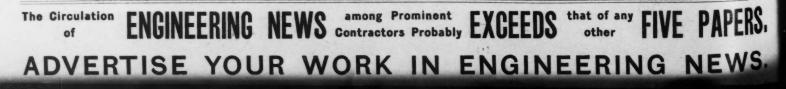
W COMPANIES.-R. P. & J. H. Staats, Hoboken, N.J.; 300, with all paid in; to construct hridges, piers, tun-railways and canals; Roht, P. Staats, 149 West Söh iew York; John H. Staats, Morristown, N. J.; Thoa, ng, 7 West 43d St., New York; Dickinson W. Richards, ark Ave., Orange, N. J.; Waiter E. Castle, Fordham, York.

Bo Fark Aves, Orallee, N. J.; Walter E. Castle, Fordnam, Gordan Battery Co., Portiand, Me.; \$350,000, commenc-ing with, \$250; to generate and deal in electricity: Pres., Arthur S. Pinkham; Treas., Charles E. Lockwood, both of New York. Eherle Construction Co., New York, N. Y.; \$24,000; to construct and equip railways to be operated hy electricity and steam; David Longecker, Charles R. Eberle, Phila-delphia; Edwin C. Stout, Alva Oatman, Thomas A. Mat-thews, New York. International Electric Co., Cleveland, O.; \$10,000; to manufacture and deal in electrical appliances; A. W. Mayers, E. H. Shaw, W. R. Studebaker, W. S. Hale and Charles Seaton. Fulling Spring Quarry & Construction Co., East St. Louis,

Fulling Springs Quarry & Construction Co., East St. Louis, Ili.; \$5,000; F. W. Hackman, Sr., Francis Kirsch and Fred Brandt.

III.; \$5,000; F. W. Hackman, ST., Francis Kirsen and Free Paradt. Pasadena Construction Co., Pasadena, Cal.; \$50,000; to construct roadways for motor vehicies; J. H. Campbell, J. E. Smythe, T. Lowe. Richmond Construction Co., New York; \$25,000; to do a general contracting husiness; John B. Newhall, Ernst Cross-man, James McQuigham, Guy A. Huhhard, and Chas, J. Worth, New York. National Iron Co., 525 Main St., East Orange, N.J.; \$100,-000, with \$1,000 paid in; to manufacture architectural and structural iron work; Alfred O. Dunk, James D. Mattison and Geo. W. Carnrick, all of 525 Main St., East Orange, N.J. Gardiner Mfg. Co., Baltimore, Md.; \$5,000; to manu-facture gas machines for generating gas; Joshua G. Gard-ner, Andrew G. Stleiman, James Russell, Laurence O. Wright Ward and Edw. L. Ward. Payne Mfg. & Engineering Co., Elmira, N. Y.; \$600,000; with \$140,000 paid in; to manufacture engines, bollers, army and navy supplies.

Wright Ward and Edw. L. Ward.
Payne Mf2. & Engineering Co., Elmira, N. Y.; \$600,000, with \$140,000 paid in; to manufacture engines, bollers, army and navy supplies.
Sanford & Brooks Co., Baltimore, Md.; \$200,000; to build bridges, piers, etc.; Jos. B. Sanford, Newark, N. J.; Walter B. Brooks, Jr., Wm. H. Taylor, J. Frank Sinton and William II. Dorsey, Baitimore.
Angleton Telephone Co., Aivin, Tex.; \$2,000; A. W. Wilkinson, W. A. Leonard and F. J. Bush.
Hoosier Telephone Co., Salem, Ind.; Dr. H. C. Hoggs, Pres, Salem; Frank Brewer, Vice-Pres, Smedley; Dr. G. M. Morris, Secy., Comton; and W. A. Denny, Treas., Martinshurg.
Rivesville & Montana Telephone Co., Rivesville, W. Va.; \$50,000; to construct and operate a telephone fm Fairmont to Rivesville; C. E. Gaskili, J. C. Gaskili, F. B. Clayton, J. P. Coogie, of Fairmont; J. D. Arnett, F. F. Picket, A. S. Prichard, T. S. Cox, and J. G. Floyd, of Morgantown.
Siloam Springs Telephone Co., Clayton, III.; \$1,500; G. L. Thompson, John Padgett, John W. Butz.
Edward Falis Land Co., Syracuse, N. Y.; \$35,000; to deal in real estate; E. Poweil, Philadelphia; A. Cady Palmer, Fayettile; Jonaus, Eibert F. Ailen, and Gillis H. Sull-weil, Syracuse.
Shenandoah Valley Car Works, Philadelphia, Pa.; \$250,000; on commenting with \$500; to manufacture wood and metal railway ties, rails, cars, etc.; G. A. Hamilton, Chas. P. Poole, Chas, J. Hepburn, Carlisle, Pa. Tondon-Glasgow Mig. & Colonization Co., Philadelphia.



PER ENC NET

CON

INI

or the cls k hs elv

