A RCHITECTS and contractors, says the Sanitary News, will be interested in the notion tolers. A RCHILE IS and contractors, says the Sanitary Netos, will be interested in the action taken by the National builders' association at its annual meeting in Cincinanti last week. The association decided that general plans, details and specifications, when offered for final competitive estimates, should be on a scale of not less than one eighth of an inch to the foot, should be done on not sees turn outergrants of an interfect the configuration of different in ink or some unfading process, and be complete in every part; such parts of the work as require a higher scale to be comprehended should be one-fourth of an inch to the foot; specifications should he definite; estimates should not be made to cover an indefinite depth of foundation, but where the soil requires going below the depth indicated on the plan, it should be paid for as extra work at d prices; the specification is to be the guide for estimating, and all demands made by the specifications, unless objection be made thereto in writing when the bids are submitted, should be covered in the estimate offered; improper demands made by plans covered in the estimate chiefer; improper administratory puni-are not to be considered; grouping of special work must be men-tioned and placed under appropriate headings; specifications must distinctly state when it is necessary to cut or change the work of chanic in placing the work of another, and such work should be cut or changed by the mechanic who put it in at the expense of the mechanic for whose accommodation the change is made; contractors are not to be restricted as to sub contractors. made; contractors are not to restricted as to successful without notice; on reserved portions of the work, let by the owner to a third party, the principal contractor should receive to per cent; the lowest invited bidder, whether a general or sub-conreactor should be given the contract and estimates for changes should be made only by him, unless the changes involve a com-plete alteration in the plans, and then the full competition should be again opened; in no case are the lowest two bidders to be called upon to estimate upon changes to see which shall have the contract: if the price estimated for changes should not be satisfactory to the ov to the owner, it should be settled by arbitration. Comdemanded as follows: For estimates amounting to \$5,000 or under, \$25; \$5,000 to \$50,000, \$50; over \$50,000, \$10 ould be given Security is demanded of the contractor, a like sum sho by the owner. A good deal of discussion was indulged in on the rights of sub-bidders in the hands of architects and the general cor. rights of stud-bluers in the national interfects and in global contractors—unsolicited bids—and a rule was passed to the effect that any member detected in trading on any of the sub-bids will be liable to forfeiture of membership, censure or suspension. It was also decided that bids should be opened in the presence of was not declared in the state of the state o These remedies, some of them, are new, but all seem to be just, and we await with interest their practical operation.

Geo. Dathie & Sons, roofers, Toronto, have dissolved A varnish factory has been started at Woodstock, Ont.

Building will be lively at Georgetown, Ont. next summer.

The citizens of Coldwater, Ont., are calling for more cottages.

The new Baptist church at Woodstock, Ont., will cost \$9,500.

Wroming, Ont., expects a boom in the building trade in the spring.

The prospects for the building trade in Alvinston, Ont., are very promising.

A new post office, costing \$30,000, has just been completed at Peterborough, Ont.

The work on the C. P. R. hotel, at Banfl, N. W. T., is being rapidly pushed forward.

A large number of dwelling houses will probably be erected at Cannington, Ont. next summer.

It is expected that not less than \$50,000 will be expended at Neepawa, Man., in buildings next season.

The new public school building at Senforth will be built by Mr. John Lyons at the contract price of \$3.675.

Contractor Joshua Garrett has commenced operations on the

Contractor Joshua Garrett has commenced operations on the new gmiled school on Simcoc street, London, Ont.

The Peterboro Bridge Company has received the contract to build a new iron bridge at the Narrows, Orillia, Ont.

The Salvation Army of Peterboro, Unt., are building a new

brick temple, with seating accommodation for 1,000 people.

George Hitdebrand has the contract to build the new residence

for the pastor of the Lutheran church New Hamburg, Ont. Six or seven members of the Builders' Exchange, London, Ont.,

who were expelled last summer, will be reinstated at an eatly date.

The congregation of St. Catharines' church, St. Catharines,

The congregation of St. Catharines' church, St. Catharines, Ont., has just closed the contract for the enlargement of their building,

The building of the new city hall at Halifax, N. S., has been taken out of the contractor's hands, by the council. A law suit will be the result.

The Canadian Pacific is to build a house on each quarter section in the Belgian colony, near Calgary, on which three hundred families are expected to settle in time to commence spr ng work

Mr. John Redwood, contractor, has just finished mother tall chiemey for Bell & Co.'s new organ factory, Guelph. The chimney is 90 feet high and contains between 33,000 and 34,000 brieks.

Mr. Thomas Grayson, contractor and builder, of Mossomin, N.W.T. will shortly commence the receition of a large stone house at Cannington, Mosse Mountain, for Mr. Hanson, an English gentleman, who proposes starting a ranch.

Mr. W. J. Burroughes, plumber, gasfitter and founder, of this city, assigned tast month. Messes. S. M. Marchment & Co., manufacturers of inodorous closets, plumbers, etc., of this city, succeeded in effecting a compromise with creditors.

Messrs. Timewell & Son, Architects, Winnipeg, Man., have a scheme for creeding forty elevators throughout the province, to be situated in municipalities that will give the necessary boosts of \$500 towards the construction of each 40,000 bushel elevator.



Architects, Engineers, Builders, Owners and others are invited to send particulars of all kinds of construction work incontemplation, for publication in this department. Please state location, character and cost, and names of person or persons controlling the work.

LEAMINGTON, ONT.—A new public school is soon to be built.

CAMBRAY, ONT.—Mr. R. James is preparing to build a public

ALMA, ONT.—The people have decided to build a new English church.

LONDON SOUTH, ONT.—The Baptists are going to build a new church.

GRAVENHURST, ONT.—A new English church will shortly be built here.

EASTMAN'S SPRINGS, ONT.—There is talk of putting up a big hotel here.

COLDWATER, ONT.—Mr. J. C. Arnold will build a new brick

Store this season.

VARMOUTH, N.S.—It is proposed to remodel and enlarge the

UNDRIDGE, ONT.—The Methodists propose building a new church this year. $\dot{}$

BLENHEIM, ONT.—Arrangements are being made for building a new English church.

NIAGARA ONT.—The Methodists are to have a new brick Sun.

day school this spring.

GEORGETOWN, ONT.—The site occupied by Clarke's hotel will

be built up next summer.

BROOKE, ONT.—S. S. No. 9, intend building a new school

house this coming summer,

OAK LAKE, MAN,-Alford & Co, will rebuild their hotel

recently destroyed by fire.

LETHBRIDGE, N. W. T.—A number of new buildings will be

erected here in the spring.

AllLLIROOK, Ont.—The block of buildings recently destroyed by fire will be rebuilt as soon as possible.

KINCARDINE, ONT.—\$8,000 will be expended by the Government in Improving the Kincardine harbor.

PORTAGE-LA-PRAIRIE, MAN.—The Methodists are collecting funds to build a new church next summer.

RAT PORTAGE, ONT.-]. W. Humble, merchant, will erect a new store, to be built of stone, 20x50 feet.

REGINA, N. W. T.-J. A. McCane intends building a three storey, seventy-five room hotel this season.

BEAVERTON, ONT.—The Town Council are considering the question of the erection of a new Town Hall.

FOREST ONT.—Over \$2,000 has already been subscribed by the members of Christ church for their new building.

OTTAWA, ONT.—The Congregationalists, of this city, have decided to build a new ten thousand dollar church.

SOUTH WINCHESTER.—Arrangements are being made for the erection of a new Anglican church and parsonage here.

NEW WESTHINISTER, B. C.—Local architects are preparing plans for a dozen or more new houses to go up in the spring.

HILLSBUHG, ONT. -The brick, sand and stone is now on the

ground for enlarging, beautifying and remodelling the Baptist church.

TILIURY CENTRE, UNT.—Mr. Duck, Architect, Ridgetown, is

preparing plans and specifications for the proposed new English church.

WESTMINSTER, B.C.—Contractors are getting ready to proceed with their contracts. Several houses have already been com-

with their contracts. Several houses have already been commenced.

SAULT-STE-MAMIE.—It is reported that a syndicate with Mr. R. M. Caldwell, of Toronto, at its bead, is about to build a \$43.

R. M. Cataweil, or foronto, it its near, is about to build a \$43, ooo hotel.

STRATHROY, ONT.—An official of the Government has been here selecting a site for new public buildings. Contracts will be

here selecting a site for new public buildings. Contracts will be let shortly.

PARKDALE, ONT.—A large brick block will shortly be built on the south side of Queen street, between Close and Jamieson

Avenues.

STRATFORD, ONT.—The plans for the proposed addition to the Wuterloo Street Methodist church are out. The addition will cost about \$3,000.

PETROLIA, ONT.—Building operations will be brisk here the coming season. Among the proposed new structures will be a 3 storey Oddfellows' hall.

BANTFORD, ONT.—The School Board has requested architect Broughbon to report with reference to proposed alterations to the Central school.—A new school house to cost \$2,500 is to be built at Pleasant Ridge, near this city.

FORT WILLIAM, ONT.—The Canadian Pacific Railway Company intend erecting car shops and a large elevator, besides doubling the capacity of the docks.

BELLEVILLE, ONT.—About \$5,000 will be speat in remodelling John street church. The improvements will consist of a new half horse-shoe gallery, large pipe organ, iron pilars in piace of wooden ones, and new sents arranged in amphitheature form, new paint and tituting.—The Grand Trunk workshops are to be enlarged in the sories.

Kinuston, Ont.—St. James church is to be enlarged in the spring.—Improvements will shortly be commenced to Queen's University buildings.—The congregation of Chalmer's church will build a new church to cost \$25,000.

LINDSAY, ONT.—The contract for the new Collegiate Institute has not yet been awarded. Only two tenders were put in and they were both too bigh. The building committee has decided to ask for separate tenders from the different trades.—The Lindsay and Ope Boards of Health have united and have decided to purchase or erect a suitable building for a hospital for contagious discrete.

LONDON, ONT.—A wealthy citizen has placed \$10,000 in the city solicitor's hands to be set apart as an endowment fund for a city hospital on condition that the building be erested on a certain site located by him.—A new small-pox hospital will probably be exceed lines shortly.—Alternations are contemplated in the Mechanics' Hall which will afford accommodation for the proposed free library.—Architect Geo. Craddock is calling for tenders for building the Medical School here. Tenders are to be in by Satur day, March 17th. Probable cost, \$10,000.—Gould & Stralford, Obsterers, have secured the contract for plastering the Church O'or Lady in Guelph, of which Joseph Consolly, of Toronto, is the architect.

TOKONTO, ONT,-The plans and specifications and also the probable cost of the proposed new Board of Trade building will likely be submitted to the Board at an early date.—The special committee appointed by the Council has decided to establish a second Collegiate Institute in the city, and will have a consultation with the High School Board regarding the site and cost of building.—An architect will be appointed by the Council to report on ing.—an architect win be appointed by the Council to report to the best method of enlarging the good building,—Two or three new schools to be erected, and some of present buildings to be en-larged. Estimates are also wanted for improved beating and ventilating apparatus. Address Secretary Public School Board. for particulars.-The government will ask tenders for the erection of a cavalry school shortly.-The following building permits have d at the office of the City Commissioner during last month: David Walker, five one-storey and two two-storey attached brick stores, north-west corner York and Front streets; R. Heath, 3 stores and alterations, College, near Markham street, cost \$3,500; Hall & Son, 21/2 storey brick addition, 223 Queer street, west, cost, \$1,500; Chas. Bansley. 4 one storey manusard r. c. dwellings, S. W. Cox, Seaton street, and Wilton Avenue, cost \$2,300; Rev. Mr. Glover, 2 storey brick house. Lowther Avenue, cost \$2,000; Douglas Scott, 2 storey and attic, McCaul street, cost \$3,000; Scott & Cross, pair s. d. 2 storey and attic, Gordon Ave., Rosedale, cost \$6,000; J. P. Kersey, 3 storey brick store and a storey brick addition, 562 Queen at cost \$4,000; Land Security Co., stables and blacksmith shop, Richmondst., w., cost \$10,000; John Wickson, addition and alterations to 744 Yonge street, cost \$1,000; Jas. Hewtett, three 2 storey and attic attached brick dwellings, Ontario street, near Wellesley, cost \$7,000; H. Roynolds, two one storey and mansard r. c. dwelling east side Darling Ave., cost \$1,050, and three of same kind west side Darling Ave., cost \$1,350; W. H. Sexton, pair s. d. 2 storey r. c. dwellings, Biceker, near Howard street, cost \$2,300; W. Simon, pair t storey and gunsard brick dwellings, 119 and 121 Queen street west, cost \$1,600; Jas. Nealon, brick hotel, King street, east, cost \$12,000; John Wighton, 2 storey blick dwelling 612 Bathurst street, cost \$2,500; J. Anderson, pair 2 storey and attic r. c. dwellings, 167 Blecker street, cost \$2,000; A. Herren, storey and attic brick dwelling, D'Arcy street, cost \$2,000. Sanate of University College will recommend the Government to provide funds for erection of a new science building to cost \$45,build a new hall.—The undergraduates of Toronto Universi pose to erect a union building to answer the purposes of club roium and society rooms. It is expected to cost abo ut 825. evmna o.-Architects King & Gouinlock report: Block of store offices, etc., corner Queen and McCaul sts., cost, \$15.000; hust ness block, Queen street east, cost, \$18,000; two stores with ness totest, Queen street east, cost, \$10,000; two stores with dwellings over, in Parkdnie, cost, \$8,000; four residences, costing on an average \$7,500 each, also several fine residences and two large blocks outside the city.

THE WATER JET IN PILE-SINKING.

SPEAKING of the discovery of the value of a water for in sink ing pikes in sand, a correspondent of the Engineering Nego or 1860, Capx. W. H. Stevens, afterward a brigadier-general in the Coatederate army, was engaged in constructing an iron lighthouse our Galection, Tex. The platform carrying the plant for sieking the screw pikes intended for the foundation was wrecked by a storm, and the mass of iron-work was soon firmly embedded in the quicksand beneath. In the attempt to recover the lost material, Capp. Stevens donned a suit of submarina namor and went down to study the effect of a jet of water in loosening the buried members of the lighthouse. He soon discovered the buried members of the lighthouse. He soon discovered the himself was firmly anchored in the quicksand, and on applying the jet to his feet, with the intention of freeing himself, was soon buried to his wists. However, signaling to his mea to hoist, and at the same time stirring up the sand with the jet, he was rescued without difficulty. The experience was not lost upon him, and shortly afterward he successfully applied the jet nection is slaking pikes in sand.

As a matter of interest, it may be well to state that during the American war Col. S. H. Lockett, chief engineer of the Department of the Gulf, in this manner filled the Bay of Mobile with obstructions, sinking trunks of trees 3 feet in diameter, and sharpened at both ends, in the sand and finally anchoring them there by the use of a jet from a common fire engine on a steambout. The piece were planted from 12 to 20 feet deep, and they settled in the sand at the rate of 12 inches per second under a jet from a 1½ inch nozzle on a 3½ inch hoze. The nozzle was held by two staples down near the point of the pile, and was secured there by a small tope passed through the staples. Fire thousand piles were thus put in.