

CALENDAR.											
1890				1890				1890			
Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29
30	31	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30	31	1	2	3
4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27
28	29	30	31	1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	1
2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	1	2	3	4	5	6
7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30
31	1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23
24	25	26	27	28	29	30	31	1	2	3	4
5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28
29	30	31	1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	1	2
3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31	1	2	3	4	5	6	7
8	9	10	11	12	13	14	15	16	17	18	19
20	21	22	23	24	25	26	27	28	29	30	31

CONTRACTS

CONTRACTS OPEN.

MOORETOWN, ONT.—Tenders are wanted for the erection of a Presbyterian Church.

FORT COULONGE, QUE.—The committee of the Presbyterian Church are inviting tenders for the erection of a new church.

VICTORIA, B. C.—The National Electric Tramway Company will extend its line from this city to Esquimalt, at a cost of \$85,000.

VANCOUVER, B. C.—The waterworks company want the city to guarantee the interest on \$50,000 to be used in extending the system.

W. TORONTO JUNCTION.—The Presbyterians are about to commence the erection of their new church at Medland and Annette streets.

BELLEVILLE, ONT.—The harbor commissioners advertise for tenders for dredging and work and rip-rap in connection with the harbor works.

HAMILTON, ONT.—Tenders are asked by the Board of Works for the construction of a bridge over Beesley's Hollow.—A pipe sewer is recommended to be constructed on Hannah St.

OTTAWA, ONT.—Mr. Page, chief engineer of railways and canals, is preparing specifications for the proposed enlargement of the Rapide Plat canal. Tenders will shortly be asked for.

SHERBROOKE, P. Q.—Tenders will be received by J. A. Archambault, Sherbrooke, P. Q., up to Saturday, June 28th, for the construction of a covered wooden lattice bridge, and an open trestle bridge across the river Magog at Rock Forest.—Messrs. Hutchinson & Steele, architects, of Montreal, have prepared plans for a solid brick block for Mr. S. Twose.

LONDON, ONT.—The congregation of St. George's Church, London West, have bought property on the corner of Queen street and Wharnclyffe road, and will erect a handsome edifice. Tenders will be received by Mr. Geo. C. Joll, Ridout street, till 4 p. m., June 2nd.—The City Engineer has been instructed to prepare plans for an addition to Clarke's Bridge School.—The City Engineer will receive tenders until June 5th, for cedar block paving King street, from Richmond to Clarence streets.—Fred. Henry, architect, will receive tenders until noon on June 2nd, for the completion of a residence in West Nissouri township.

TORONTO, ONT.—Plans have been prepared for additions to the Phœbe and Brant street schools, the Girls' Home, Dufferin road Orphans' Home and for the enlargement of the school board offices. The Sites and Buildings Committee will be asked to approve of them.—It is reported that Messrs. Jacobs & Sparrow will erect a theatre building on Yonge street in the neighborhood of College Ave.—The following building permits have been granted: Rice Lewis & Son, six att. stores and offices, n. e. corner King and Toronto sts., cost \$20,000; Manes & Booth, det. 2 story and attic bk. dwelling, Jamieson ave., cost \$5,000.—The City Engineer recommends that considerable dredging be done at the Island.

MONTREAL, QUE.—Tenders are asked by the City Surveyor until noon of June 4th for the construction of sewers on the following streets and sections of streets: St. Denis street, from Notre Dame street to St. Catherine street; Aqueduct street, from Argyle avenue to Dorchester st.; Mignonne street, from end of sewer west of Dufresne street to east of Dufresne street; St. Felix street, from Allert street to Notre Dame street; Guilbault street, from St. Lawrence street to Arcade street; St. Paul street from McGill st. to St. Jean Baptiste street; St. Paul street, from St. Gabriel street to Jacques Cartier square; Gosford street from Craig street to Notre Dame street.—The Mayor and City Comptroller have been authorized to proceed to England to negotiate a loan of \$600,000 for public improvement purposes.—The ratepayers of St. Henri have passed resolutions authorizing the council to borrow \$100,000, half of which is to be used for roads, drains and other public improvements.—The Superintendent of Water Works has been authorized to purchase 200 tons of iron pipe.—The Board of Trade have

purchased a site for a new building the Cuvillier property bounded by St. Sacrament, St. Nicholas and St. Peter streets. Plans will be immediately prepared.—The Franciscan Monks propose to erect a large monastery in the neighborhood of Cote des Neiges.

CONTRACTS AWARDED.

FOREST, ONT.—W. S. Stonehouse has the contract for the High School building at \$6,300.

PORT COLBORNE, ONT.—Mr. J. E. Cutler has been awarded the contract for the erection of the club house at Solid Comfort, for \$4,500.

WINNIPEG, MAN.—N. D. McDonald has secured the contract for the plumbing and heating apparatus for the new court house at Calgary.

HAMILTON, ONT.—James Rogers has been given the contract to block pave Ontario ave., at the following rates: fencing, 98 cents per sq. yard; curbing, 18 cents per lineal foot.—Thomas Allen's tender for curbing and grading Hunter street, has been accepted. The prices are 12 cents per lineal foot for curbing and 8 cents per lineal foot for grading.

MONTREAL, QUE.—Contracts for paving Craig street has been awarded as follows: F. D. Lawrence, sidewalk flags, supplied and laid on four inches of sand and joints cemented, 4 ft. by 2 ft., by not less than 2½ inches thick, \$2.48 per square yard, 6 ft. by 3 ft. or over, by not less than 3 inches thick, \$3.75, extra size, 25 ft. or over, in superficies by not less than 4 inches thick, \$4.45. Tenders for supply: Messrs. Desormeau Bros., gray limestone curbstones, straight, 6 in. by 20 in. and three ft. long, 55 cents per lineal foot; do. curved, 60 cents; straight, 9 in. by 12 in. by 4 feet long, 65 cents; do. curved, 75 cents. F. D. Lawrence, sidewalk flags, 4 ft. by 2 ft. by not less than 2½ in. thick, \$1.65 per sq. yard; 6 ft. by 3 ft. or over, by not less than 3 in. thick, \$3; extra size, 25 ft. or over, in superficies by not less than 4 in. thick, \$3.50; crosswalk flags, 20 in. thick by not less than 5 in. thick by not less than 3 ft. long, 80 cents per lineal foot; do. 24 in. wide by not less than 6 in. thick by not less than 3 ft. long, \$1.09. For laying: F. D. Lawrence, curbstones, 9 in. by 12 in., hauling and laying on 6 in. of concrete, 35 cents per lineal foot; 6 in., hauling and laying to grade, 15 cents; 6 in., taking up and relaying to new grade, 15 cents; over 24 in. deep, taking up and relaying to new grade, 31½ cents; 4 in. by 5 in. taking up and relaying to new grade, 13 cents. Flagstone sidewalks, hauling and laying all sizes and cementing joints with Portland cement, 50 cents per square yard; taking up, cutting, fitting and relaying all sizes and cementing joints with Portland cement, 32 cents; taking up, cutting, fitting and relaying Montreal stone and cementing joints with Portland cement, 30 cents. Flagstone crossings, hauling and laying all sizes, 13 cents per lineal foot; taking up, cutting, fitting and relaying all sizes, 7 cents.

WHAT IS THE LIFE OF CORRUGATED IRON?

At a recent meeting of the Connecticut Association of Engineers, a paper by Mr. C. M. Jarvis was presented on "Iron Roofs." In the discussion which followed, Mr. Field was asked the question, "What is the ordinary life of corrugated iron?" He replied: "The life of a corrugated iron roof depends on what gauge of iron you use, or whether you use it galvanized. You can put it on to last 100 years, but ordinarily it will not. Iron near the seashore will go faster than inland. There are instances where that iron has lasted 20 to 25 years; other times it has gone in 5 or 6. There is no repair except to put a new sheet on. You can take off any one sheet and renew it. We have had roofs on our place 17 years, and they do not leak very badly now. We keep them painted. A good many places where they have lost corrugated-iron roofs they have not painted them. We use metallic paint. Those that last the longest are galvanized iron. Many people put on 26 iron, which is not much better than paper. If they will put on 18 or 20 galvanized, they will have a roof to last practically, forever. They put on 26 frequently. There are three or four gauges—Standard, Birmingham and others—and you must be posted on what gauge you are buying, for 26 in one might be 28 in another man's. You gauge it by the weight per foot.

In the new high explosive invented by Maxim, of machine-gun fame, gun-cotton is the chief ingredient. Castor oil is also used, and it is found to increase the toughness of the product and diminish its liability to deterioration.

A simple rule for estimating the tenacity of various metals is the resistance which wires of the same diameter experience when passed at equal temperatures through the same hole of a draw-bench. Taking steel at 100, iron has 88; brass, 77; gold, 0.750; copper, 68; silver, 0.750; zinc, 34; tin, 11; lead, 4.