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ETC., ETC.

TORONTO, ONT., 1890-91

S. SARNER, PUBLISHER
TORONTO & MONTREAL.

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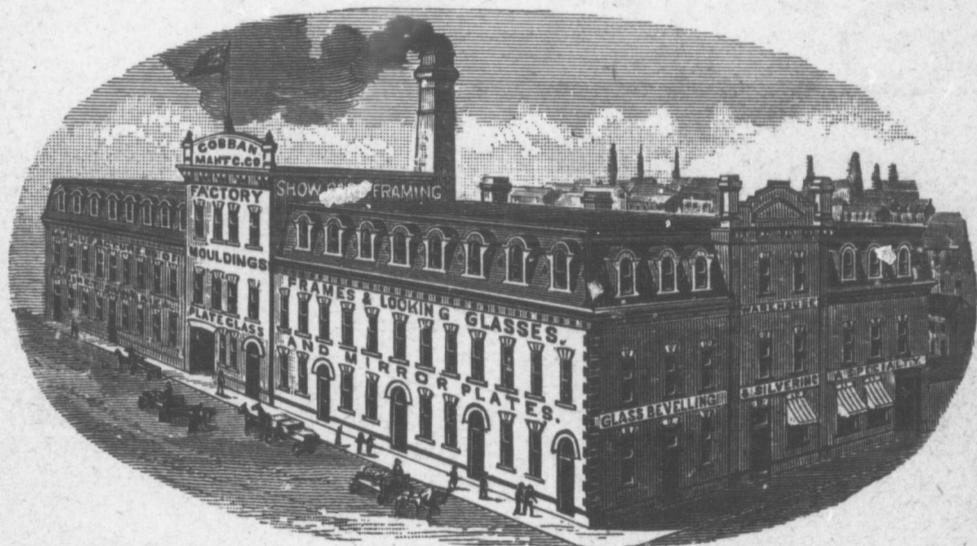


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Bulley, Josiah.....	628 Parliament.

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Brown, A. J.....	297 Carlton.
Burns & McCormack.....	665 King W.
Cannon, Thos. E.....	373 Manning Ave.
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Farley, John.....	43 Lowther Ave.
Farquhar, E.....	242 George.
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McBean, Wm	452 Yonge.
O'Leary, John....	181 William.
Pelto, Thomas.....	25 Adelaide W.
Parker, T. J.	496 Church.
Prosser, Robt	26 Oxford.
Park, William.....	183 St. Patrick.
Power, William	53 Richmond E.
Robinson, Thos	1226 Yonge.
Rathbone, Geo.....	4 Northcote.
Sheppard, L. C.....	38 Richmond E.
Scott, J. C	377 Berkeley.
Simpson, Wm.....	82 Adelaide W.
Shanklin, John.....	349 Spadina Ave.
Scott, Douglas	32-34 Hayter.
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Sexton, W. F.....	87 Queen E.
Simmons, W. R	136 Tecumseth.
Smith, W. J.....	55 Strachan Ave.
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Hynes, W. J.....	375 Berkeley.
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Little John.....	178 Elizabeth.
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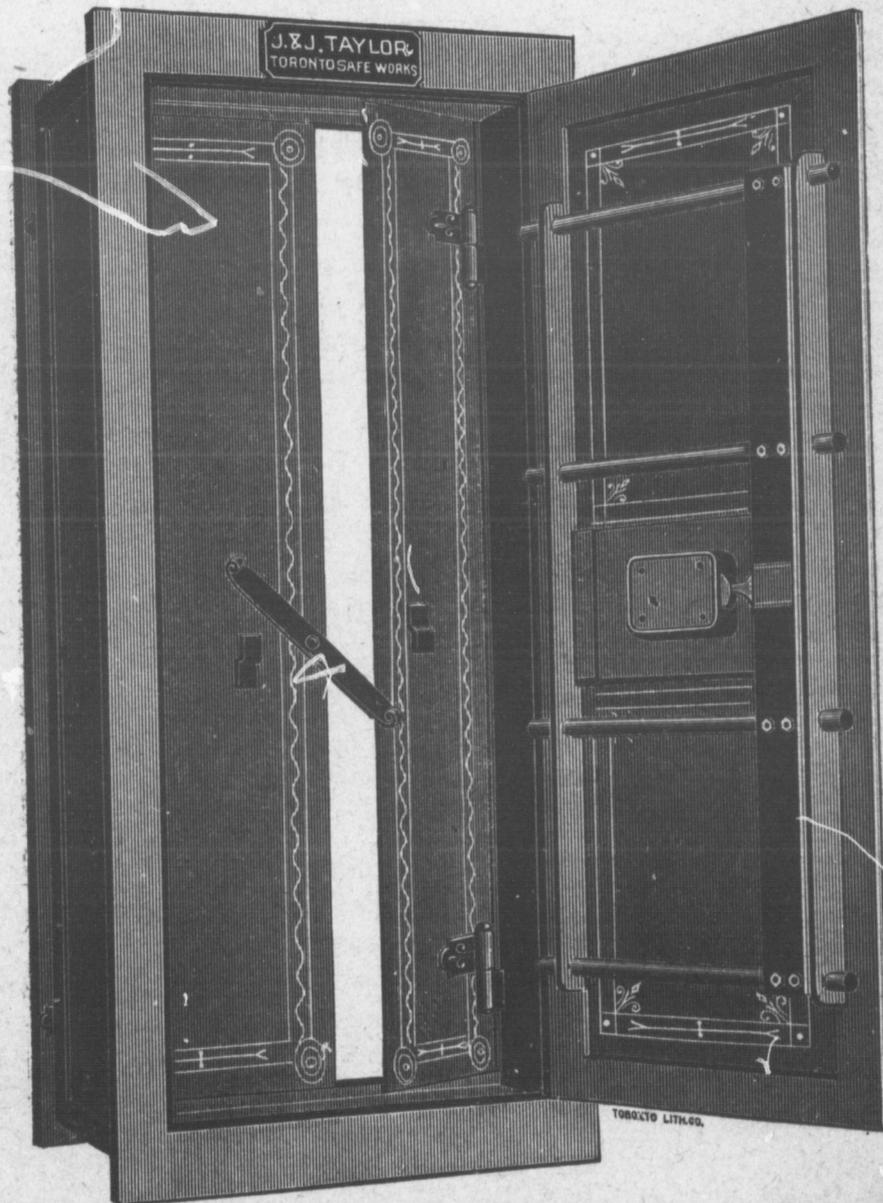
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Copping, W.....	1112 Queen W.
Cook, Thos.....	320 Parliament.
Erwood, John.....	157 Queen W.
Ewan, John.....	47 Wellington.
Finn, Jas.....	627 Queen W.
Fiddes & Hogarth.....	50 Jarvis.
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Gordon, Thos.....	168 Queen E.
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Hayden Bros.....	204 Brunswick Ave.
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Kinghorn, D. W.....	97 Church.
Malcolm, W. B.....	89 Church.
Meadows, S.....	29 Queen W.
McCauley, A. G.....	425 Spadina Ave.
McGuire, W. J.....	86 King W.
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Denison, Arthur R., 18 King W.
Dick, D. B., 17 Toronto.
Dick & Wickson, 36 Toronto.
Edwards & Webster, 18 Victoria.
Elliott, J. H., 22 Natalie.
Fowler, J. Ades, 13 Victoria (see adv. page 16).
Gibson & Simpson, 9½ Adelaide E.
Gordon & Helliwell, 26 King E.
Gregg, Wm. R., room V, 9 Victoria.
Hall, Mark, room V, 9 Victoria.
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Herbert, F. H., 24 Toronto Arcade.
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Sproatt & Pearson, Canadian Bank of Commerce Building (see adv. page 16.)
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Storm, W. G., 28-30 Toronto.
Strickland & Symonds, 18 Toronto.
Townsend, S. H., 53 King E.
Wagner, C. F., 4 King E.
Walton, C. A., 38 Toronto (see adv. page 16).
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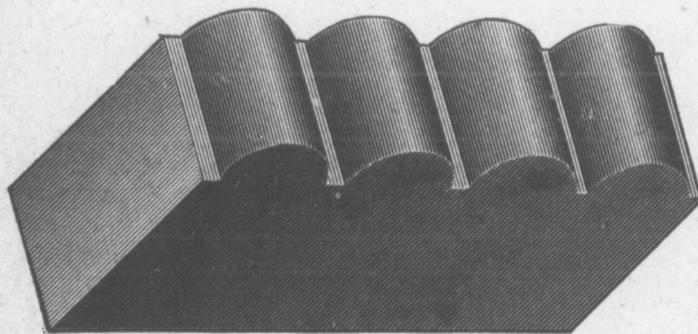
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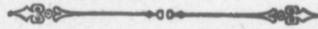
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page 48).**Fletcher, John, & Sons,** 552 Yonge
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adv. page 46).**Shipway Manufacturing Co.,** 70, 72,
76 Victoria.**BELTING.****Canadian Rubber Co.,** 1 Front E.
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Hayter (see adv. page 7).**Toronto Plate Glass Importing Co.,**
50-55-57 Victoria (see adv. page
opposite plate glass classification)**BLACKSMITHING—BUILDERS.****St. Lawrence Foundry Co.,** 262 to
278 Front E. (see adv. inside
front cover).**BOILER INSPECTION. X****The Boiler Inspection & Insurance
Co.,** of Canada, head office
Canada Life Building (see adv.
page 30).**BOILER MAKERS.****Doty, John, Engine Co.,** 2 Bathurst.
Inglis, John, & Sons, 14 Strachan ave.
Perkins, John, 201-203 Front E.
Polson Iron Works Co., foot Sher-
bourne.**Ramage, A. T.,** 182-188 Munro.**Williams, A. R.,** 102 Esplanade W.**BOLT AND NUT MANUFACTURERS.****Ontario Bolt Co., The (Limited),**
Swansea.**Pendrith, John H.,** 76 Adelaide W.**Pendrith & Hutton,** 607 King E. (see
adv. page 94).**St. Lawrence Foundry Co.,** 262 to
278 Front E. (see adv. inside
front cover).**BRASS FOUNDERS AND
FINISHERS.****Arnott, Ambrose,** 74 Victoria.**Booth & Son,** 163 to 169 York (see
adv. page 36).**Bertram, J. & A.,** 114 Yonge.**Dakin, H.,** Galt, Ont. (see adv. page
54.)**Dean, Thomas, r.** 158 York.**Earsman, Alex., & Co.,** 110 Adelaide E.**Fogg, John,** 193 King E. (see page
46).**McMullan, Wm.,** 122 Sackville.**Malcolm, W. B.,** 89-91 Church.**Morrison, James,** 89-97 Adelaide W.
(see adv. page 20).**Whittaker, W. M.,** 23 Commercial.**BRASS GOODS. X****Morrison, James,** 89-97 Adelaide W.
(see adv. page 20).**Dakin H.,** Galt, Ont. (see adv. page
54).

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BATH TUBS.X

Booth & Son, 163 to 169 York (see adv. page 36).

BLACK BOARDS.X

Hynes Terra Cotta & Brick Co. (Ltd.), Esplanade, foot Jarvis.

BRICK MANUFACTURERS.

(Pressed.)

Coleman-Hamilton Co., (Ltd.), 44 Price, North Toronto (see adv. page 7.)

Hynes Terra Cotta & Brick Co. (Ltd.), Esplanade, foot Jarvis.

Ontario Terra Cotta, Brick & Sewer Co. (Ltd.), 103 Bay (see adv. page 60).

Toronto Pressed Brick & Terra Co., 2 Toronto (see adv. page 18).

BRICK MANUFACTURERS.

(Common.)

Arnold, Samuel, Chester.
Beatty, Thomas, 1380 Queen E.
Cook, John, r. 132 Curzon.
Dancy Bros., Eglinton.
Goodings, Robert, Chester,
Harrington, John, 1036 Yonge.
Hicks, O. L., Humber Bay.
Jennings, Thomas, 561 Jones Ave.
Kirkland, James, West Toronto Junction.
Logan, John, 423 Logan ave.
Maloney, John, cor. Queen and Dufferin (see adv. page 32).
Maloney & Armstrong, Humber Bay.
Morley, Mrs. Jane, 1320 Queen E.
Morley, Walker, 160-162 Greenwood ave.
Nightingale, Thomas, 1074 Yonge.
Pears, James, Eglinton.
Phillips, Henry J., 417 Leslie.
Price, Isaac, 1287 Queen E.
Price, John, 135 Leslie.
Richardson, Jas., 486 Greenwood ave.
Russell, John, 1010 Queen E.
Sawden, Thomas, 1381 Queen E.
Sheppard, John, 986-996 Yonge.
Simpson, J. & J., Humber Bay.
Simpson, Wm., Humber Bay.
Taylor Bros., 30 West Market.

Wagstaff, David, 1140 Queen E.
Yorkville & Carlton Brick Co., 138 Avenue road.

BRIDGE BUILDERS.

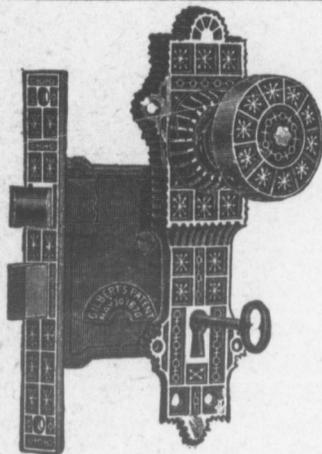
Lang, Robert, 23 Niagara.
Markle, J. J., 237 Lansdowne.
Medler & Arnot, foot Berkeley.

BUILDERS.

(See also Carpenters, etc.)

Adamant Manufacturing Co., 100 Esplanade E. (see adv. page 52).
Adams, Wm., 119 Bleeker
Beers, Wm., 168 Adelaide W.
Boon, C. S., 54-56 Richmond E.
Brown & Love, s. s. Esplanade, foot Jarvis.
Bryce Bros., 280 King E.
Clinkunbroomer Bros., 100 Ruth.
Coyell, Alfred, 28 D'Arcy.
Davidson & Kelley, 56 Sherbourne.
Dinnis, R. & Son, 271 Simcoe.
Dudley & Scott, 106 River.
Gander, J. M., 237 Ossington ave.
Haliburton, Jas., 130 Broadview ave.
Hynes Terra Cotta & Brick Co. (Ltd.), s.s. Esplanade, foot Jarvis.
Lucas, Henry, 450½ Spadina ave.
McBean, Wm., 452 Yonge.
Martin Henry, 283 Palmerston ave.
Medler & Arnot, foot Berkeley.
Munro, Wm., & Son, 87 Adelaide W.
Newall & Chapman, 38 Melinda.
Sexton, W. F., Jr., 87 Queen E.
Simpson, Wm., 314 Queen W.
Simpson, Wm., 82 Adelaide W.
Williams, David, 18 Victoria and 578 Spadina ave.
Witchall, Christopher C., 437 Spadina ave.
Yorke, Joseph, s. s. Esplanade, opposite Jarvis.

BUILDERS' HARDWARE.X
Ashdowne, V. E., 738 Queen E. (see adv. page 28).
Aikenhead & Crombie, cor. King and Yonge (see adv. page 94).
Hawke & Emes, 1290 Queen W. (see adv. page 58).



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- Lewis, Rice & Son (Ltd.)**, 32 King E. (see adv. inside back cover).
Shipway Manufacturing Co., 70, 72, 76 Victoria.
Underwood G. B. & Co., 48 Adelaide W. (see adv. page 22).

BUILDERS' SUPPLIES.

- Adamant Manufacturing Co.**, 100 Esplanade E. (see adv. page 52).
Adamson, Joseph, Esplanade, foot George (see adv. page 54).
Aikenhead & Crombie, cor. King and Yonge (see adv. page 94).
Ashdowne, V. E., 738 Queen E. (see adv. page 28).
Burns & McCormack, cor. King and Bathurst (see adv. page 24).
Brown, A. J., 297 Carlton (see adv. page 32).
Britnell & Co., Yonge, C.P.R. crossing (see adv. page 44).
Bristow Bros., Esplanade, foot Berkeley (see adv. page 34).
Christie Lime & Stone Co., 104 Esplanade E (see adv. page 22).
Checkley, E. J. & Co., cor. Davis ave. and Thompson (see adv. page 26).
Colman - Hamilton, Co. (Ltd.), 44 Price, North Toronto (see adv. page 8).
Freeman, W. A., Hamilton, Ont (see adv. page 62).
Fletcher, John & Sons, 552 Yonge (see adv. page 20).
Gillespie & Brooks, Yonge, C.P.R. crossing (see adv. page 40).
Goddard & Barnard, 27 Sherbourne (see adv. page 42).
Hamilton & Toronto Sewer Pipe Co. (Ltd.), Hamilton, Canada (see adv. outside front cover).
Hynes Terra Cotta & Brick Co. (Ltd.), Esplanade, foot Jarvis.
Maguire, Wm., 84 Adelaide W. (see adv. page 58, opposite Sewer Pipe)
Metallic Roofing Co., of Canada (Ltd.), rear 84 to 90 Yonge (see adv. page 22).
McRae & Co., 98 Esplanade E. (see adv. page 30).

- McLachlan, Geo.**, Queen Street Subway (see adv. page 38).
Maloney, John, cor. Queen and Dufferin (see adv. page 32).
Millard, J. G., Queen Street Subway (see adv. page 62).
Miller Bros. & Toms, 122 King st., Montreal, and 74 York, Toronto (see adv. page 24).
Ontario Terra Cotta Brick and Sewer Pipe Co. (Ltd.), 103 Bay (see adv. page 60).
Oakley & Holmes, 66 & 68 Wellington W. (see adv. page 42).
Robertson, D. & Co., 16 Victoria (see adv. page 32).
The Toronto Lime Co. (Ltd.), 118 Esplanade E. (see adv. page 28).
The Toronto Pressed Brick and Terra Cotta Co., 2 Toronto (see adv. page 18).
Whillans, Robt., Queen Street Subway (see av. page 30).
Wallace, W. H., 68 Esplanade W. (see adv. page 40).

BUILDERS' IRON WORK.X

- Barnum Wire and Iron Works**, Walkerville, Ont., Toronto office British American Building (see adv. inside front cover).
Fletcher, John & Sons, 552 Yonge (see adv. page 20).
Pendrith & Hutton, 607 King E. (see adv. page 94).
St. Lawrence Foundry Co., of Toronto, 262 to 278 Front E. (see adv. inside front cover).
Treloar, Blashford & Co., 8-10 Berkeley (see adv. page 38).
Whitfield, John, 174-176 Front E. (see adv. page 46).

BUILDING PAPER.X

- Williams, H. & Co.**, 4 Adelaide E.

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- Knox, John**, 16 Victoria.

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Miller Bros. & Toms, 122 King st.,
 Montreal; Toronto office 74 York
 (see adv. page 24).

CALCINED PLASTER. X

Adamant Mfg. Co., 100 Esplanade
 E. (see adv. page 52).
Maguire, Wm., 84 Adelaide W. (see
 adv. page 58).

CARVERS (Wood).

Cobban Mfg. Co., cor. Teraulay and
 Hayter (see adv. page 7).
Look & Bunker, 36 King W.
Holbrook & Mollington, 115 Adelaide
 W.
Mowbray, Thos., Yonge Street Ar-
 cade (see adv. page 36).
Smeall & Williams, 390 Adelaide W.
Wagner, Zeidler & Co., West To-
 ronto Junction (see adv. page 36).

CARPENTERS, BUILDERS AND CONTRACTORS.

(See also Builders, also Contractors.)

Abernethy, Thos., 39 Rolyet.
Adair, John, 41 Grove ave.
Aldridge, John, 269 Crawford.
Allwood, John, rear 109 Richmond W.
Anderson, John, 17-19 Percy.
Andrews, Thos., 136 Lippincott.
Ardagh & Leonard, 10 College.
Armstrong, Adam, 2 Sussex ave.
Armstrong, Francis, 296 Berkeley.
Armstrong, James, 258 Carlton.
Armstrong, Robt., 342 Carlton.
Armstrong, R. H., 131 Brunswick ave.
Ashfield, H. J., 28 Regent.
Axworthy, Edwd. B., 193 Shaw.
Bache & Otter, 472 Parliament.
Badgerow, John, 41 St. Clarens.
Bailey, Richard E., 674 Ontario.
Baillie, Wm., 80 Albert.

Baker, John, 23 Nelson.
Baker, J. B., 22½ King E.
Baldwin, T. T., 136 First ave.
Balfour, Andrew, 21 Maple Grove.
Bamber, Harry, 1 St. Enoch, sq.
Barbour, J. W., 52 William.
Barrett, James, 98 Borden.
Barton, Geo., 95 Bloor W.
Batho, Alfred, 176 Brock ave.
Batty, Christopher, 111 Huron.
Baumhard, F. H., 252 Gladstone ave.
Bayles, Frederick, 340 Manning ave.
Beatty, Christopher, 111 Huron.
Beckett, Samuel L., 522 Ontario.
Bedford, J. & Sons, 55 Elm ave.
Beecroft, Alvery, 46 Gwynne ave.
Beers, Wm., 168 Adelaide W.
Bell, Ralph, 81 Claremont.
Belham, Wm., 365 Euclid ave.
Binnington, M., 86 Farley ave.
Binstead, John & Sons, 29-31 St.
 Altan.
Bishobrick, G. F., 81 Church.
Bishobrick & Kelly, 53 Lombard.
Black, Wm., 104 Nassau.
Blain, J. J., 518 Ontario.
Bodley, S. W., 15 Gildersleeve ave.
Bond, J. S., 75 Givens.
Booth, J. J., 16 Shaftesbury ave.
Bottomley & Gander, r 64 Spadina ave.
Boyd, David C., 13 Bear.
Bradshaw, C. A., r 183 Davenport rd.
Bradshaw, Edwin, 669 Queen E.
Brady & Bell, rear 17 Elm.
Bramley, Joseph, 141 Broadview.
Brand, Wm., 572 Jarvis.
Brewer, Thos., b 327 Yonge.
Brick, Benjamin, 308 Carlton.
Briggs, John, 41 Birch ave.
Brisly, Wm., 175 Yonge.
Brumley, W. J., 20 Marlboro' ave.
Brooks, H. H., 2 Carlton.
Brown, A. J., 297-303 Carlton (see
 adv. page 32).
Brown, F. J., 109 Broadview ave.
Brown, R. T., 325 College.
Brown, Thos., 35 Boswell.
Browne, John, 73 Langley ave.
Bruce, J. B., West Toronto Junction.
Bryce, Thos., 280 King E.
Bryer, T. M., 44 Davenport Place.
Bulley, Josiah, 628 Parliament.
Bulman, John, 127 Givens.
Bulmer, Matt., 5 Lakeview ave.

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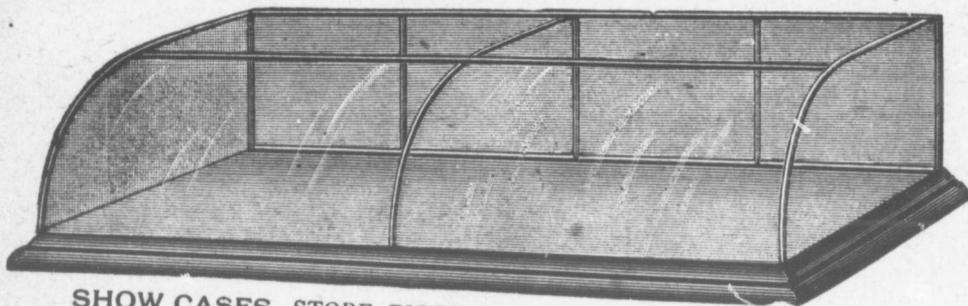
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 Burke, Wm., 254 George.
 Burry, Geo., 172 Strachan ave.
 Burns, James, 22 Division.
 Burton, Albert, 321 Manning ave.
 Butler, Aaron N., 19 Brockton Rd.
 Cairncross, J. H., 377 Church.
 Cale Bros., 22 Laurier ave.
 Cameron, John & Sons, 86 Perth.
 Cannon, E. J. 511 Lansdowne ave.
 Cannon, T. E. 373 Manning ave.
 Carlyle, David, 72 Winchester.
 Carlyle, D. J., 94 Seaton.
 Carruth, Robt., 295 Manning ave.
 Causey, Amos, 376 Dundas W.
 Chanter, Samuel, 237 Queen W.
 Chalkley, Richard, 323 Bathurst.
 Chapple, Thos., 234 St. Patrick.
 Charters, John, 244 Markham.
 Charters, W. G., 355 Dovercourt Rd.
 Chesser, Wm., 246 Gerrard E.
 Clateworthy, Geo., 60 Adelaide W.
 Clark, Alex., 79 Nassau.
 Clark, Geo., 91 Euclid ave.
 Clarke, Frederick, 562 Yonge.
 Clarke, jr., John, r 540 Adelaide W.
 Clarke, Wm., 80 Augusta ave.
 Clement, John, 212 Bathurst.
 Clement, F. W., 153 Robert.
 Cockburn, W. B., 28 Division.
 Coleman, Arthur, 11 Hayter.
 Collier, Wm., 115 Hazelton ave.
 Cooney, Thos., 73 Esther.
 Cooper, R. J., 305 Carlton.
 Cortissos Bros., 213 St. Helen ave.
 Crang, James, 80 Hazelton ave.
 Crone, W. N. & Co., 11 $\frac{1}{2}$ Richmond W.
 Crookenden, R. P., 176 Wilton ave.
 Crop, Kenneth, 34 Hayter.
 Cropper, J. C., 135 Bay.
 Crowhurst, Fred., 103 O'Hara ave.
 Cruttenden T. W., 287 Sumach.
 Damp, John, 512 Church.
 Dancy, H. N., 314 Huron.
 Dancy, R. C., 312 Huron.
 Dane, Geo., 265 Franklin ave.
 Darrack, Neil, 269 Carlton.
 Davidson & Kelley, 55 Sherbourne.
 Davie, Geo., 268 Crawford.
 Davis, Geo., 9 Gwynne.
 Davis, Henry, 66 Hayden.
 Dennis, Henry, 357 Dupont ave.
 Dermitt, G. G., 12 Dermott place.
 Dermody, John, 137 Denison ave.
 Devlin, Thos., 28 Hackney.
 Dickey, J. I., 61 Huron.
 Dicks, James, J., 144 Simcoe.
 Dinnick, C. R. S., 156 St. George.
 Dinnis, R. & Son., 271 Simcoe.
 Dodd, Joseph, 123 Lisgar.
 Donovan, James, 81 Foxley.
 Downey, Thos., 201 Dunn ave.
 Dunkley, W., 191 Grand.
 Dudley & Scott, 106 River.
 Duke, C. T., 24 Colborne.
 Edey, Robert, 222 Gardeⁿ ave.
 Edgell, G. E., 43 Victoria.
 Elder, John, 311 Queen E.
 Elkins, Wm., 83 Gladstone ave.
 Elliott, G. A., 176 Roxborough.
 Elliott, Abraham, 656 Ontario.
 Elliott, Wm., 448 Parliament.
 Essex, Alfred, 127 Victoria.
 Evans, Arnold, 584 Dundas.
 Evans, Caleb, 322 Markham.
 Evans, Robert, 536 Manning ave.
 Farquhar, E., 242 George.
 Fawcett, Edward, 309 Carlton.
 Farley, John, 43 Lowther ave.
 Ferguson, Wm., 66 Grange ave.
 Farthing, Ed., 339 Shaw.
 Ferguson, Wm. H., 83 Bay.
 Field, M. G., 2 Cawthra ave.
 Figg, Wm., 92 Borden.
Fletcher, John, 552-554 Yonge (see adv. page 20).
 Flint, Simeon, 86 Rose ave.
 Ford, John, 109 O'Hara ave.
 Ford, Hinde, 68 Westmoreland ave.
 Forbes, Wm., 102 Davenport Rd.
 Forsyth, George, 141 Adelaide E.
 Fraser, G. W., 34 Bolton ave.
 Freeman, George, 311 Lippincott.
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 Grant, H. T., 131 Royce ave.
 Grant, J. N., 475 Spadina ave.
 Grant, Robert, 170 Argyle
 Grant, W. A., 2 Athol.
 Grant, Wm., 21 Parkdale ave.
 Gray, H. J., 635 Parliament.
 Grayden, R. A., 677 Spadina ave.
 Graydon, J. C., 332 Crawford
 Greenaway, N. E., 632 Ossington ave.
 Greenwood & Marr, West Tor junc.
 Gregson, S. G., 1045 Dufferin.
 Gregson, Wm., 28 Walton.
 Haliburton, James, 130 Broadview
 ave.
 Hall, Josiah, 114 Westmoreland ave.
 Hall, J. E., 354 Euclid ave.
 Halls, Wm, n s Marion, 7 e of Ron-
 cesvalles ave.
 Hamblin, W., 196 Sumach
 Hamlyn, J. H., 58 Denison ave.
 Hamilton, James, 4 Saurin.
 Hammons & Williams, 310 Spadina
 ave.
 Hancock, Thomas, 46 Shannon
 Hannah & Burch, 212 Argyle.
 Hanrahan, John, 31 Agnes.
 Harman, Richard, 366 Huron
 Harbie, John, 439 King W.
 Hardy, George, 126 Rose ave.
 Harold, Christopher, 272 Clinton.
 Harris & Duncan, 67 Summerhill ave.
 Harrison, Wm., Johnson ave, cor
 Bathurst.
 Harrison, Wm., 20 First ave,
 Harvey, George, 674 Parliament.
 Hathway, James, 187 Queen W.
 Haynes, George, 53½ Front e.
 Heakes, S. R., 4 Badgerow ave.
 Henry, George, 283 Givens.
 Henry, H. J., 392 Rusholme rd.
 Hewitt, Ed., 307 Seaton.
 Herdman, John, 29 Melinda.
 Herbert, J., 137 Seaton
 Hill, Robert, 253 Euclid ave.
 Hill, R. H., 568 Dufferin.
 Hill, Wm. J., 105 Bloor W.
 Hilliard, C. I., h 557 Givens.
 Hills, Prentice, 181 Bolton ave.
 Hobberlin, John, 366 Parliament.
 Hobden, J. W., 212 Crawford.
 Hollatt, Enos, 348 Lippincott.
 Holmes, Samuel, r 18 Cameron.
 Holmes, Wm., Norway
 Hooper, T. J., 109 Grand ave.
 Hoops, Joseph, 219 Sherbourne.
 Hubble, C. M. C., 782 Euclid ave.
 Huddart, W. L., 47 Davenport rd.
 Hughes, W. J., 216 Simcoe.
 Hughes & Co., 88 Harbord
 Humphrey, T. R. & Co., 31 Queen E.
 Hurst, T. & Sons, 216 Ontario.
 Hutchinson, Macintosh, 91 Jarvis.
 Ingleby, W. T., 238 Lisgar.
 Ingram, Fredk. W., 182 Bolton ave.
 Jackson, Frank, 17 Alexander.
 Jefferys, C. T., 361 Wellesley.
 Johnson, Alfred, 11 Little Arthur.
 Johnston, Edward, 202 Borden.
 Johnson, Wm., 915 Queen W.
 Jolly, J. S., 640 Queen E.
 Jones, Robert, 11 Garden ave.
 Jones, Thomas, 17 Toronto Arcade.
 Jones, Wm., 125 Brunswick ave.
 Joselin, H. & Son, 224 Bleeker.
 Joselin, J. S., 187 Bleeker.
 Joss, John, 174 Huron.
 Kane, J., 417 Carlton,
 Kearns Patrick, 429 St. Clarens.
 Kelcher & Cannon, 348 Markham.
 Keeler, Wm. T. C., 94 Givens.
 Kelsey, John, 47 Perth.
 Kennedy, R. J., 534 Front W.
 Kerr, William, 298 Givens.
 Kidd, Henry, 49 Queen E.
 Lamb, E. J., 7 Manning ave.
 Langley, W. F., 39 Noble.
 Langridge, John, 26 Saunders ave.
 Langston, James, 296 Church.
 Lanskail James S., 354 Huron.
 Laughton, A. C., 294 Crawford.
 Lawson, John, 20 Rolyat.
 Leary, Robert, 400 Manning ave.
 Leighton, James, 88 McKenzie cres.
 Lewis, J. B., 65 Elizabeth.
 Lindsey, J. W., 15 Manning ave.
 Livingstone & Wright, 306 Wellesley.
 Lloyd, Thomas, 473 Queen W.
 Long, D. M., 194 Claremont.
 Lord, John, 15 Edward.
 Lovatt, George, 7 Sword.
 Love, H. G., 6 Earl.
 Lowry, James, 605 Givens.

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Widmer (see adv. page 34).

Forbes, Duncan (estate), 153 Bay.

Parmelee Roofing and Paving Co.,
rm. 51 Yonge St. Arcade (see
adv. page 26).

Saulter Bros., 23 Adelaide E.

Williams, H. & Co., 4 Adelaide E.

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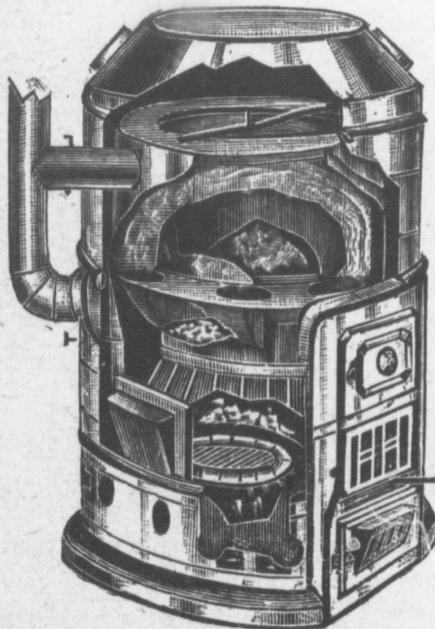
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Douglas, John & Co., 337 Spadina ave (see adv. page 38).
Hawke & Emes, 1290 Queen W. (see adv. page 58).
Toronto Furnace Co., 8-10 Queen E. (see adv. page 42).

GALVANIZED IRON WORKS.

Canada Galvanizing and Steel Roofing Co., 22 Latour St., Montreal (see adv. page 15).
Douglas Bros., 121 Adelaide W.
Douglas, John & Co., 395 Spadina ave. (see adv. page 38).
Mayer, M. & Co., 124 Richmond E.
McDonald, Thomas & Co., Mimico.
Metallic Roofing Co. of Canada, The (Ltd.), rear 84 to 90 Yonge (see adv. page 22).
O'Hearne, J. P., 264 St. Patrick.
Ormsby, A. B., 126 Queen E.
Redcliffe, Henry, 206 Manning ave.
Ringham, Geo. & Son, 23 Edward.
Ryan, J. J., 37 Arthur.
Tucker & Dillon, 87 Bay (see adv. page 44).

GAS FIXTURES.X

Lear, R. H., 19-21 Richmond E. (see adv. page 26).

GAS, GAS LOGS AND GAS COAL.X

The Hynes Terra Cotta and Brick Co., (Ltd.), Esplanade, ft. Jarvis.

GLASS.

Cobban Mfg. Co., s e cor. Teraulay & Hayter (see adv. page 7).
Dominion Stained Glass Co., 91 Richmond W.
Lyon, N. T., 141 Church.

McCausland, Jos. & Son, 72 King W.
Toronto Plate Glass Importing Co., 55-57 Victoria (see adv. page 50).

GRANOLITHIC PAVING.X

Forsyth, Robt., 14 Toronto Arcade (see adv. page 34).

GRAVEL ROOFERS.

(See also Roofers.)

Cruise, G. W. & Co., 723 Queen E (see adv. page 46).
Forbes, Duncan (estate), 153 Bay.
Parmelee Roofing and Paving Co., (see adv. page 26).
Williams, H. & Co, 4 Adelaide E.

GLASS STAINERS.X

Lyon, N. T., 141 Church.
Toronto Plate Glass Importing Co., 55-57 Victoria (see adv. page 50).

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Hawke & Emes, 1290 Queen W. (see adv. page 58).
Morrison, James, 89-97 Adelaide W. (see adv. page 20).
Toronto Furnace Co., 8-10 Queen E. (see adv. page 42).
Toronto Radiator Mfg. Co., 366 to to 376 Dufferin (see adv. page 56).

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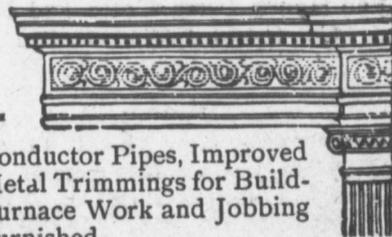
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 Gurney, E. & C. Co. (Ltd.) King W.
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 Munn, John, 50 Queen W.
 Pendrith & Hutton, 607 King E. (see
 page 94).
 Potts & Son, n. s. Defoe, 3 w. Niagara.

Reid & Brown, foot West Market.
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 onto, 262 to 278 Front E.
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Diehl, Geo. L. & Co., 93 Niagara.
English, W. H., 140 Dundas.
Ewing & Co., 87 Front W.
Powell & Parkinson, 343 Yonge (see
 adv. page 48).
Tait & Co., 267 Queen W.
Toronto Cabinet Co., 126 William.
Wagner Zeidler & Co., West Tor-
 onto Junction (see adv. page 36).
Wright & Co., cor. Grange ave. and
 Esther.

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 (see adv. page 48).
Sheppard, R. & Son, 207-209 Queen W
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Gilmor & Casey, 47 Victoria (see
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Gorrie, J. A., 83 Huron.
Gould, James, 428 King E.
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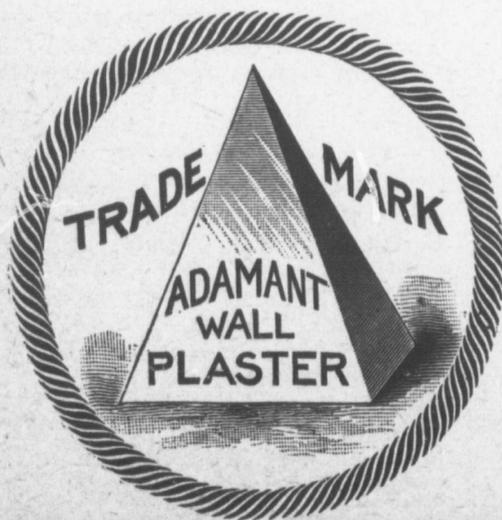


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 Burns & McCormack, 665 King W.
 Brown, A. J., 297 Carlton.

Christie Lime and Stone Co., 104 Esplanade E.
 Checkley, E. J. & Co., Davies ave. & Thompson.
 Freeman, W. A., Hamilton, Ont.
 Maguire, Wm., 84 Adelaide W.
 Maloney, John, cor. Queen & Dufferin
 McRae & Co., 98 Esplanade E.
 Millard, J. G., Queen Street Subway.
 Robertson, D. & Co., 18 Victoria.
 Toronto Lime Co., The, (Ltd.) 118 Esplanade E.
 Whillans, Robt., Queen St. Subway.

PLASTERERS.

(See also Ornamental Plasterers.)

Atkey, Alfred, Garden ave.
 Balmer, Philip, 678 Yonge.
 Beaver, Fred G., 84 Rose ave. (see adv. page 44).
 Beaver, H. R., 46 Salisbury ave.
 Belbin, A. C., 450 Manning ave.
 Blakely, Henry, 63 Palmerston ave.
 Brady, G. E., 8 Shannon.
 Brooks, John, 543 Givens.
 Buckner, Charles, 124 Blong.
 Clark, Robert E., 713 Dufferin.
 Crowley, P. F., 467 Church.
 Dolen, Edward, 49 Markham.
 Ferguson, John, 25-31 De Grassi.
 Fitzgerald, Thomas, 41 Parkdale ave.
 Gander, John H., 262 Palmerston ave.
 Gander & Son, n s Marion, 7 w of West Lodge ave.
 Grandin, John, 138 Clinton.
 Haill, E. A., 92 St. David.
 Hamilton, Thomas, 158 Hamilton.
 Hynes W. J., 375 Berkeley (see adv. page 44).
 Kennedy, J. W., 151 Markham.
 Lamb & Fox, 76 Carlaw ave.
 Little, John, 178 Elizabeth.
 Lockwood, F. B., 36 Oxford.
 Magill, George, 68 Clyde.
 Milne, David, West Toronto Junction
 Murphy, Richard, 591 Dufferin,
 Nelson, John, 223 Lippincott.
 Rudlen, George, 42 Irvin ave.
 Taylor, R. W. C., 109 Hamilton.
 Washington, James, — Adelaide W.
 Watson, Robert, 349 Manning ave.
 Wright, James, 67 Victoria.

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Brass Work and Plumbers' Supplies.

Anti-Friction Metals and all kinds of
Fine Brass Castings Made.

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56 SHERBOURNE STREET, - - TORONTO

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Lake Gravel and Sand, Sewer Pipe, Portland and
Canadian Cement, Grindstones, etc.

ESPLANADE ST., - FOOT OF GEORGE ST.

TELEPHONE 491.

**PLUMBERS, STEAM AND GAS
FITTERS. X**

Aggett, J. T., 8½ Shuter.
 Aldred, C. W., 988 Queen W.
 Allison, K. J., 605 Yonge.
 Armstrong, Fred., 277 Queen W.
 Beavis, C. H., 185 Parliament.
 Bell, David, 124 Jarvis,
 Bennett & Wright, 72 Queen E.
 Braybon, W. N. & Co., 449 King W.
 Burroughes, W. J. & Co., 353
 Queen W.
 Cleator, Wm., 1072 Queen W.
 Clewes, John, 781 Yonge.
 Cook, Thomas, 320 Parliament.
 Copping, Wm., 1112 Queen W.
 Cruickshank, A. R., 556 Yonge.
 Cruickshank, James, 3 St. Enoch Sq.
 Erwood, J. W., 157 Queen W.
 Ewen, John, 47 Wellington E.
 Fiddes & Hogarth, 50 Jarvis.
 Finn, H. & E., 606 Queen W.
 Finn, James, 627 Queen W.
 Fullerton, W. J. & Co., 439 Parliament
 Funston, J. J., 252 Robert.
 Gates, Frederick, 803 Queen E.
 Gordon, Thomas, 168 Queen E.
 Guest, George, 71 Queen E.
 Guy, W. J., 661 Queen W.
 Harkley Bros., 431 Spadina ave.
 Hawkes, F. B., 73 Dundas.
 Hayden Bros., 204 Brunswick ave.
 Head, T. S., 316 Parliament.
 Hewlett, W. H. & Co., 419 College.
 Hobbs, Alfred, 207 Brock ave.
 Holtby Bros, West Toronto Junc.
 Huffman & Co., 120 York.
 Hurst, James, 85 Jarvis.
 Jordan, Robert, 641 Yonge.
 Keith & Fitzsimons, 111 King W.
 Keys & Ely, 6 Elm.
 Kinghorn, D. W., 97 Church.
 Knott, J. E., 195 Wilton ave.
 Langley, Joseph, 143 Palmerston ave.
Lear, R. H., 19-21 Richmond W.
 Le Cour, P. J., 245 Gerrard E.
 Lewis, Wm., 127 York.
 Locke, Robert, 748 Yonge.
 McCauley, A. G., 425 Spadina ave.
 McGuire, Wm. J. & Co., 86 King W.
 McGuire & Bird, 108 York.
 McLaren, Thomas, 778 Yonge.
Meadows, Samuel, 185½ Queen W.
 Monahan, John, 617 Queen W.

Mulholland, A. J., 505 King W.
 Nelson, A. E., East Toronto.
 O'Hagan, Francis, 438 Queen E.
 O'Leary, John, 347 Queen E.
 Oram, J. W., 836 Yonge.
 Power, J. J. 801 King W.
 Purdy, Mansell & Mashinter, 58
 Adelaide W.
 Quigley, W. G., 128 Bay.
 Read & Read, 59 Queen E.
 Richards, Bros., 502½ Yonge.
 Richards, James, 546 Yonge.
 Ritchie, John, 64 Adelaide E.
 Ross, John, 113 Gerrard E.
 Ross, Robert, 1347 Queen E.
 Ross, W. R. & Co., 872 Queen W.
 Ryding, Samuel, West Toronto Junc-
 tion.
 Smith, Samuel, 9 Abbs.
 Todd, R. M., 31 Sheridan ave.
 Wallis, Frank, 1095 Yonge.
 Wallis, George, 345 College.
 Watson, Wm. M., 7-9 Dundas.
 Wells, J. R. & Co., 190 King W.
Whitelaw, N. & F., 200 Queen E.
 Williams, W. J., 371 Spadina ave.
 Wright, John, 403 Yonge.
 Wright, Samuel, 795 Queen W.

PLUMBERS' SUPPLIES.

Booth & Son, 163 to 169 York (see
 adv. page 36).
Dakin, Henry, Galt, Ont. (see adv.
 page 54).
 Gurney, E. & C. Co. (Ltd.), 560
 King W.
 Malcolm, W. B., 89-91 Church.
Morrison, James, 89-97 Adelaide W.
 (see adv. page 20).
 Robertson, James & Co., 265 King W.
 Toronto Hardware Manufacturing
 Co., 1106 Queen W.

PUMP MANUFACTURERS.

Northey & Co. (Steam), 280-290
 Front E.
 Plews, D. & Co., 503 Yonge.

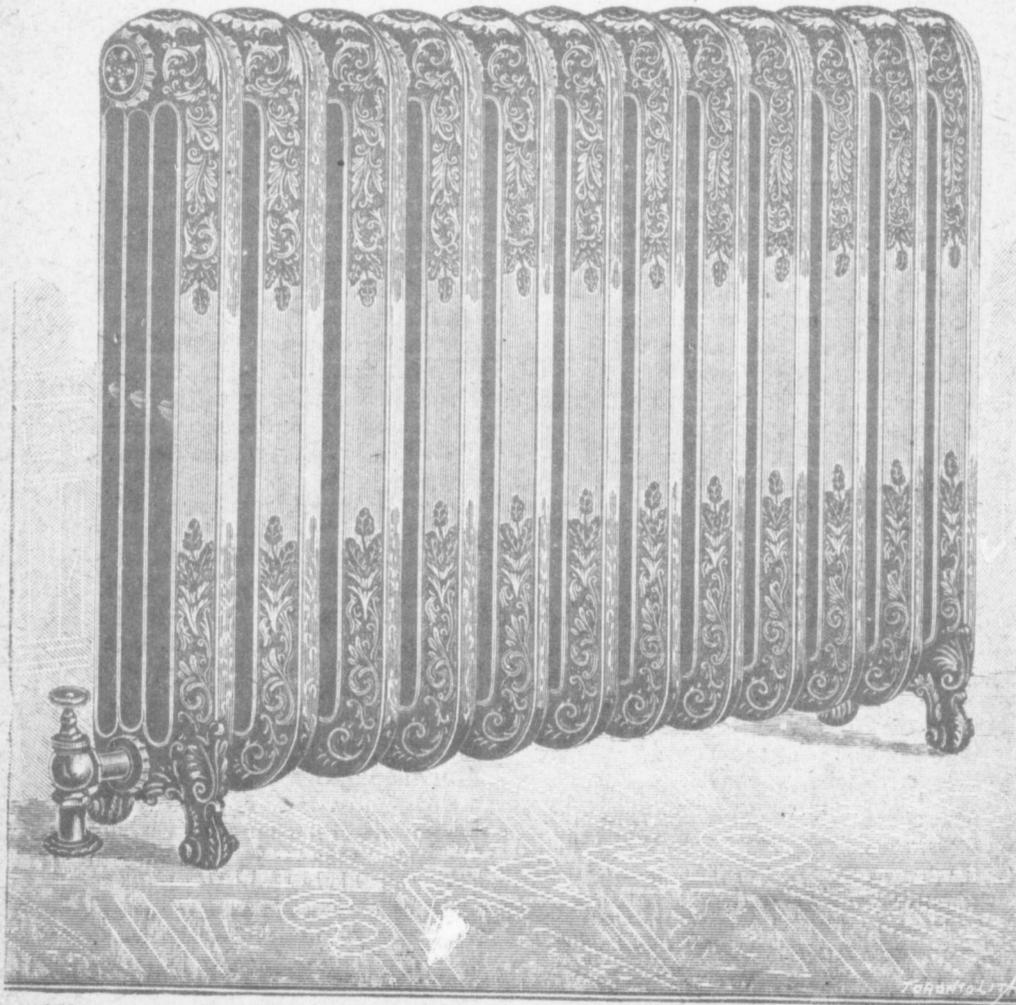
RADIATORS.

Gurney, E. & C. Co., (Ltd.) King W.
 Pease, J. F., Furnace Co., 189 Queen E.
Toronto Radiator Mfg. Co., 366 to
 376 Dufferin (see adv. page 56).

SAFFORD PATENT RADIATOR

FOR HOT WATER AND STEAM.

—: Over One Million Square Feet Now in Use in Canada. :—
CHEAPEST. NEW PATTERN. BEST.



The only Radiator made without BOLTS or PACKED JOINTS.
NIPPLE CONNECTIONS.

MANUFACTURED ONLY BY

The Toronto Radiator Manufacturing Co., Toronto, Ont.

Toronto Furnace Co., 8-10 Queen E.
(see adv. page 42).

ROOFERS.

(See also Felt and Gravel also Slate Roofers).

Boulton, R. J., 677 Queen E.
Canada Galvanizing and Steel Roofing Co., 22 Latour st., Montreal.
Cruise, G. W. & Co., 723 Queen E.
Duthie, G. & Sons, cor. Widmer and Adelaide.
Forbes, D., 153 Bay.
Gilday, Richard, 17 Adelaide E.
Metallic Roofing Co. of Canada, rear 84 to 90 Yonge.
Parmelee Roofing and Paving Co., room 51 Yonge Street Arcade.
Rennie, Robt. & Son, cor. Gould and Dalhousie.
Robinson & Egan, 45 Victoria.
Saulter, Wm., 23 Adelaide E.
Stewart, Wm. T., 27 Toronto.
Toronto Roofing Co., 77 Elm Grove ave.
Williams, H. & Co., 4 Adelaide E.

ROOFING MATERIAL.

Canada Galvanizing and Steel Roofing Co., 22 Latour st., Montreal.
Cruise, G. W. & Co., 723 Queen E.
Duthie, G. & Sons, cor. Adelaide and Widmer.
Forbes, D. (Estate), 153 Bay.
Metallic Roofing Co. of Canada, rear 84 to 90 Yonge.
Parmelee Roofing & Paving Co., room 51 Yonge Street Arcade.
Paterson, J. W. & Bro., 297 Front E.
Rennie, Robt. & Son, cor. Gould and Dalhousie.
Robinson & Egan, 45 Victoria.
Saulter, Wm., 23 Adelaide E.
Stewart, W. T., 27 Toronto.
Taylor Bros., 30 West Market.
Williams, H. & Co., 4 Adelaide E.

ROOFING—TERRA COTTA TILE. X

Colman-Hamilton Co., (Ltd.) 44 Price, North Toronto.

Duthie, G. & Sons, cor. Adelaide and Widmer.

Hynes Terra Cotta and Brick Co., (Ltd.) Esplanade, foot Jarvis
Ontario Terra Cotta and Pressed Brick Co., (Ltd.) 101 Bay.
Toronto Pressed Brick and Terra Cotta Co., 2 Toronto.

RUBBER BELTING.

Canadian Rubber Co., 7 Front E.
Gutta Percha and Rubber Co., 43 Yonge.
Morrison, James, 89-97 Adelaide W.
Toronto Rubber Co., 28 King W.

SANITARY EARTHENWARE. X

Booth & Son, 163 to 169 York.

SANITARY ENGINEERS.

Biggs & Roberts, 75 Adelaide E.
MacDougall, Alan, 30 Adelaide E.

SAND AND GRAVEL.

Adamant Manufacturing Co., 100 Esplanade E.
Adamson, Joseph, Esplanade foot George.
Brown A. J., 297 Carlton.
Burns & McCormack, 665 King W.
Christie Lime & Stone Co., 104 Esplanade E.
Checkley, E. J. & Co., Davies ave and Thompson.
Hamilton & Weir, 895 Yonge.
Maloney John, cor Queen and Dufferin.
McRae & Co., 98 Esplanade E.
Millard J. G., Queen St. Subway.
Robertson, D. & Co., 18 Victoria.
Taber Bros., Little York.
Toronto Lime Co. (Ltd.), 118 Esplanade E.
Whillans, Robert, Queen St. Subway.

Maguire's Sewer Gas Preventive,
Flushing & Self-Cleaning Trap.

SEWER PIPE



WILLIAM MAGUIRE

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84 Adelaide St. W., Toronto
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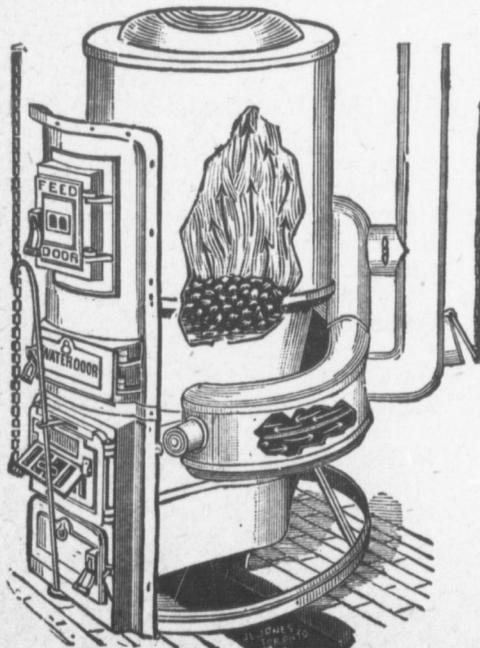
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Tops,
Fire Brick,
Fire Clay.

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NATIVE CEMENTS
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LOWEST PRICES

NOTICE.—Particular attention is directed to the formation and construction of the **MAGUIRE TRAP.** Sanitary experts, engineers, architects, plumbers and builders, after subjecting it to the severest tests, have declared it to be worthy of their unqualified approval. Leading physicians also declare that where it is used, typhoid fever, diphtheria, and other infectious diseases are much less prevalent. In the City of Toronto there is a very large and constantly increasing number of these traps being used, and in every instance they are giving perfect satisfaction.

The "Marvel" Warm Air Furnace



TELEPHONE 5043.

The "Marvel" Warm Air Furnace

Has superior points of excellence
in mechanical construction,
being

**DURABLE, ECONOMICAL,
LOW PRICED,
EASILY MANAGED,
NO GAS, NO DUST.**

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1290 QUEEN ST. W.

NOTE.—This is the only Furnace in Canada with Patent Fused Joints and Double Lower Radiator. Get estimates before purchasing.

SASH, DOORS AND BLINDS.

Abercrombie, Wm, 52 Noble.
 Bateman, James, corner Union and
 Hamburg ave.
 Bryce Bros., 280 King E.
 Doherty, Thomas, 446 Dufferin.
 Firstbrook Bros., 293 King E.
 Fox & Co., 432 King W.
 Hall, Wm. & Son., 261 King W.
 Hunter, Archibald, Little York.
 Lee and Seaman, 4 Northcote ave.
 Moir and McCall, 26 Sheppard.
 Peterkin, C. R., 148-154 Bay.
Power & Gilchrist, 191 Niagara.
 Rathbone, George, 4 Northcote ave.
 Simpson Wm., 82 Adelaide W.
 Simpson Wm., 312-314 Queen W.
 Stewart, Wm., 534 Dundas.
 Wagner, J. P. & Co., West Toronto
 Junction.
 Willcock, Stephen, 584 Bloor W.
 Withrow & Hillock, 128-130 Queen E.

SEWER PIPE—MANUFACTURERS.

**The Hamilton and Toronto Sewer
 Pipe Co.** (Limited), Hamilton,
 Canada (see adv. outside front cover)

SEWER PIPE—IMPORTERS.

The Colman-Hamilton Co., (Ltd.),
 44 Price, and C. P. R. yards,
 North Toronto (see adv. page 7).

SEWER PIPE—DEALERS.

Adamson, Jos., Esplanade ft. George
Brown, A. J., 297 Carlton
Burns & McCormack, 665 King W.
Christie Lime and Stone Co., 104
 Esplanade E.
Checkley, E. J. & Co., Davies ave.
 and Thompson.
Freeman, W. A., Hamilton, Ont.
Maguire, Wm., 84 Adelaide W.
Maloney, J., cor Queen and Dufferin
McRae & Co., 98 Esplanade E.
 McKnight & Smart, cor King and
 Broadview ave.
Millard, J. G., Queen St. Subway.
Robertson, D. & Co., 18 Victoria.
Toronto Lime Co. (Ltd), 118
 Esplanade E.

Whillans, Robert, Queen St. Sub-
 way.

SHOW CASE MANUFACTURERS.

Laurence, H. G. & Son, 196 King W.
 (see adv. page 28).
Wagner, Zeidler & Co., West Tor-
 onto Junction (see adv. page 36).

SLATE ROOFERS.

(See also Roofers)

Duthie, G. & Sons, s w cor Adelaide
 and Widmer.
Rennie Robert & Son, cor. Gould
 and Dalhousie.
 Saulter, Wm., 23 Adelaide E.
Williams, H. & Co., 4 Adelaide E.

**SMOKE PREVENTIVES—MANU-
 FACTURERS.X**

**The Hamilton and Toronto Sewer
 Pipe Co.**, (Limited), Hamilton,
 Canada (see outside front cover).

SOAP STONE FINISH PLASTER.X

**The Hynes Terra Cotta & Brick
 Co.**, (Ltd.), Esplanade foot
 Jarvis.

SPEAKING TUBES.X

Shipway Mnfg. Co., 70, 72-76 Vic-
 toria.

SPIRIT LEVELS—MANUFACTURER

Spies, G. V., rear 91 Richmond W.
 (see adv. page 38).

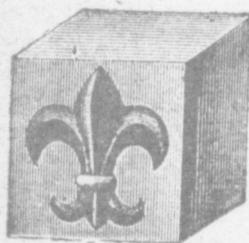
STAINED GLASS.

Bell Art Stained Glass Works, The,
 130 Richmond W.
 Dominion Stained Glass Co., 91
 Richmond W.
 Elliott & Son, 94 Bay.
Lyon, N. T., 41 Church.
 McCausland, Joseph & Son, 72-76
 King W.
Toronto Plate Glass Importing Co.,
 55-57 Victoria (see adv. opposite
 plate glass).

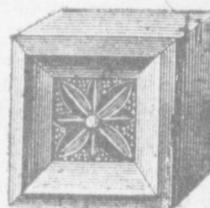
THE
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(LIMITED)

MANUFACTURERS OF



High Grade
Pressed Brick



(By Semi-Dry and Plastic Processes)

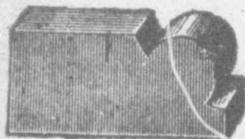
IN PLAIN AND ORNAMENTAL DESIGNS

We desire to call special attention to our

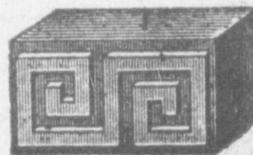
TERRA COTTA AND ROOFING TILES

IN A VARIETY OF PATTERNS.

Samples and prices will be furnished
at the Company's Office.



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TORONTO.



Works at Campbellville, Ontario.

L. M. LIVINGSTON, President. C. C. WITCHALL, Man.-Director.

STORAGE BATTERIES.

Robert's Storage Battery & Electric Construction Co., 46 Adelaide W. (see adv. page 16).

STONE DEALERS.

(See also Cut Stone.)

Adamson, Joseph, Esplanade, foot George.
Baby, Frank, West Toronto Junction.
Boon, C. S., 54 Richmond E.
Britnell & Co., Yonge and C. P. R. crossing.
Bristow Bros., Esplanade, foot Berkeley.
Brown & Love, Esplanade, foot Jarvis.
Burns & McCormack, 665 King W. Carlton, Wm., 208 Borden.
Christie Lime & Stone Co., 104 Esplanade E.
Checkley, E. J. & Co., cor. Davies ave. and Thompson.
Goddard & Barnard, 27 Sherbourne.
Maloney, John, cor. Queen and Dufferin.
McLachlan, Geo., Queen St. Subway.
Millard, J. G., Queen St. Subway.
Oakley & Holmes, 66-68 Wellington W.
Robertson, D. & Co., 18 Victoria.
Wallace, W. H., 68 Esplanade W.
Whillans, Robt, Queen St. Subway.

STEAM PUMPS.

Northey & Co., 280-290 Front E.
Smith, Charles & Co., 59 Richmond E.
Williams, A. R. 102 Esplanade W.

SURVEYORS.

Abrey & Tyrrell, 17 Toronto Arcade.
Biggs & Roberts, 75 Adelaide E. and West Toronto Junction (see card page 16).
Bousfield, R. W. Gambier, 75 Adelaide E.
Browne, H. J. & W. A., 17 Toronto.
Denison, A. R., 18-20 King W.
James, Silas, 36 Toronto.
Johnson, R. T., 18 Victoria.
Lough, Matthew, 15 Toronto.
McAree John, 86 King E.

Murphy & Esten, 32 Adelaide E. (see card page 40).

Speight & Van Nostrand, Toronto Arcade.

Unwin, Foster & Proudfoot, 157 Bay (see card page 16)

TERRA COTTA.

Colman-Hamilton Co., (Ltd.) 44 Price, North Toronto.
Hynes Terra Cotta and Brick Co., (Ltd.) Esplanade, foot Jarvis.
Ontario Terra Cotta and Pressed Brick Co., (Ltd.) 101 Bay.
Toronto Pressed Brick and Terra Cotta Co., 2 Toronto.

VARNISHES.

Butler, Jesse, 92 Barton
Duperow Bros. & Co., 4 Adelaide E.
Henry, John, 6 Adelaide E.
Mackenzie, D. A. & Co., n e cor Eastern ave and Strange.
Muirhead, Andrew, 82 Bay.
Peuchen, A. G. & Co., 38-46 Princess.
Sussman, Sons & Co., 9 St. Lawrence.

WHITE LEAD MANUFACTURERS.

Dominion Saw and Lead Works, 265 King W.
Ontario Lead and Barb Wire Co., 54-56 Lombard.
Toronto Lead and Color Co. 14 Pearl.

WATER AND GAS PIPES. X

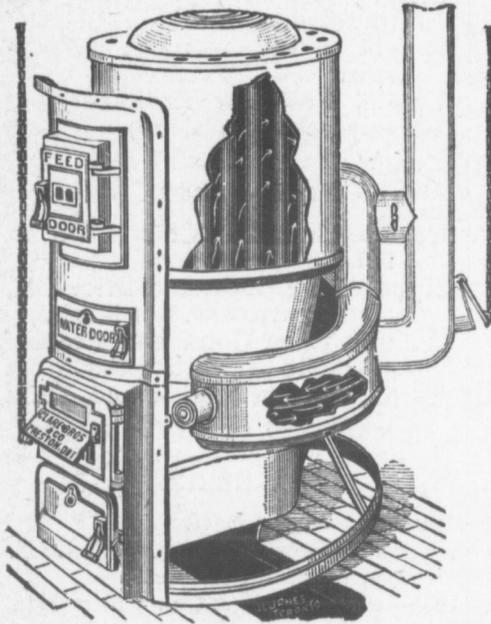
St. Lawrence Foundry Co., of Toronto, 262-278 Front E.

WALL PLASTER. X

Adamant Manufacturing Co., 100 Esplanade E.

WINDOW GLASS. X

Cobban Manufacturing Co., cor Terauley & Hayter.
Lewis, Rice, & Son, (Ltd.), 30-32 King E.
Toronto Plate Glass Importing Co., 55-57 Victoria.



CLARE BROS. & CO

PRESTON, ONT.

Manufacturers of a complete line of Coal and Wood

**HOT AIR FURNACES,
REGISTERS,**

Hot Water Boilers and Combination Heaters
(Hot Air and Hot Water).

All our Coal Furnaces can be arranged as
Combination Heaters.

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GENERAL TEAMING.

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WIRE WORKS.

Barnum Wire & Iron Works, office
British American Building.
Canadian Wire Co. (barb), 20 Front
E.
Cassgreen Manufacturing Co., room
5, 58 $\frac{1}{2}$ Victoria.
Cobben, F. F., 17 Henderson ave.
Partridge, Frederick, 24 Colborne.

Ontario Lead & Barb Wire Co., 54-
56 Lombard.
Roberts, Thomas, 42 Melinda.
Safety Barb Wire Co., 178 Front E.
Shipway Manufacturing Co., 70-72-
76 Victoria.
Tarbox Bros., 73 Adelaide W.
Toronto Wire Works, 128 King W.
Universal Manufacturing Co., 41
Queen E.

• A BY-LAW
FOR
REGULATING THE ERECTION OF BUILDINGS
AND THE
STORAGE OF INFLAMMABLE MATERIAL.

PASSED 13TH JANUARY, 1890

The Municipal Council of the Corporation of the City of Toronto enacts as follows:

INSPECTOR OF BUILDINGS.

1. The Council shall, from time to time, appoint a competent, practical mechanic in the building trade to be Inspector of Buildings, whose duty it shall be to see that the provisions of this By-law are carried out.
2. Until otherwise ordered by By-law, the City Commissioner shall perform the duties prescribed by this By-law to be performed by the Inspector of Buildings.

CHIMNEYS, BOILERS, FURNACES, ETC.

3. Every owner, occupier or person using a building in which any chimney, fireplace, hearth, oven, boiler, furnace, stove, steam-pipe, stove-pipe, funnel, flue or place for making or keeping fire, or keeping ashes, is deemed to be dangerous, shall upon receiving a notification from the Inspector of Buildings so to do, immediately discontinue the use of, or remove the same, as he may be directed.

BUILDINGS ON NARROW STREETS.

4. No dwelling-house or other building intended to be occupied for human habitation shall hereafter be erected on any street which is less than thirty feet in width.
5. Every dwelling-house, or other erection occupied as a dwelling-house, shall have attached thereto a vacant space having an area of at least three hundred square feet, on which no building of any kind shall be erected or maintained. This section shall not apply to buildings erected previous to the eighth day of July, 1889.

REGULATIONS DURING THE ERECTION OF BUILDINGS OR REBUILDING.

6. In all cases of building or rebuilding any house, warehouse, storehouse or other building, when such building is to be erected on the line of any street, or within seven feet thereof, there shall be erected over the sidewalk or footway of the street a scaffold or independent structure not less than eight feet high above the level of the sidewalk or footway, of the full width of the sidewalk or footway, which shall be planked over the entire length and breadth with two layers of two-inch plank, laid to break joint properly, and be enclosed on all sides at least eighteen inches above the level of the plank aforesaid, the sidewalks of the street being left free for public uses.
7. When the scaffold extends over the sidewalk, as mentioned in the last preceding section, the joists must be two by twelve inches deep for a span over six feet, and the caps on the posts must be four by six inches deep. When permission is granted to lay a sidewalk it shall be laid on sills four by four inch, lengths of twelve feet, laid to break joint. Two-inch plank shall be laid across and nailed at each end to the sills with five-inch nails. The handrails shall be four by four inches, clean and chamfered, nailed to uprights four by four inches, set upon the ground six feet apart. The sidewalk to be covered over if so ordered by the City Engineer. All gates into the yards formed by these inclosures are to open inwards and not across the sidewalk.
8. No person shall place any lumber, stone, chips or shavings, rubbish or other building material whatsoever on any sidewalk; and when buildings are being erected on any street, no person shall be allowed to occupy a greater space with any building material than shall allow a clear width of six feet of sidewalk between the curb and the barricade; except in such cases as shall be especially ordered by the City Engineer, when one-fourth of the width of any street whereon the tracks of the Toronto Street Railway Company are laid, and one-third of the width of any other street, may be so occupied.
9. Every person receiving the permit of the City Engineer, as aforesaid, shall erect and maintain a close-boarded fence or barricade six feet high between the part of the sidewalk left for public use and the part occupied by him for the purposes aforesaid.
10. Every person who erects or maintains over the sidewalk or footway of any street a scaffold or structure, or who deposits any building material on any street, sidewalk or footway under the provisions of the foregoing section, shall be responsible to the City for, and shall indemnify the City against, all damage or injuries thereby occasioned to any person.
11. Where the City Engineer grants permission to take a greater portion of the street than that already specified, the person to whom the permit is granted shall at his own cost erect and maintain a close boarded barricade, as aforesaid, and put on the outside thereof a sidewalk four feet wide with a strong handrail around it, to the satisfaction of the City Engineer.
12. No person shall place any stone, lumber, or any building material, fence, barricade or temporary sidewalk so as to obstruct the free passage of water in the drains, gutters or water courses.
13. No person shall permit any building material to remain on the street longer than, in the opinion of the City Engineer, may be necessary for the erection of the buildings for which such material is designed; and on the completion of the walls and outside work of any building, the owner thereof shall, within three days thereafter, entirely remove all material from the street, and cause the street to be cleaned from all such building material and left in good repair.

VENEERED BUILDINGS.

36. No person shall erect within the limits of the City any brick veneered building on wooden foundations, or veneer with brick any wooden building heretofore erected, unless brick or stone foundations shall have been first erected or placed under such veneering. No brick veneer shall be allowed for more than two storeys, and the whole height from ground to plate shall not be more than twenty-five feet, and no gable shall exceed this height by more than ten feet, and every fourth course of brick shall be nailed every two feet with six-inch nails to the studding.

UNSAFE BUILDINGS.

37. When any building in course of erection, alteration, or repair, or any of the scaffolding or hoists connected therewith, shall be deemed unsafe by the Inspector of Buildings, the owner, contractor, or agent shall be notified at once to make the same safe and secure; and every person so notified who fails, within twenty-four hours, to comply with such notice, shall be subject to the penalties of this By-Law.

38. Whenever any building is, by reason of age, accident, or damage by fire, in danger of falling or being set on fire, and endangers the surrounding property or the lives of the citizens, the Inspector of Buildings shall notify the owner, agent, or other person having charge of such building, to put the same at once in a safe condition to guard against fire or dangerous accident; and every person who fails, within twenty-four hours, to comply with such notice, shall be subject to the penalties of this By-Law.

CONSTRUCTION OF BUILDINGS.

46. No building shall be erected or placed on old or new foundations, or on foundations partly new and partly old, unless the same shall be built with main walls of brick, iron, or stone, and roofing of incombustible material; and no wall of any building two storeys in height and upwards, built of brick, and no external or party walls, shall be less than one brick and a-half in thickness for the first two storeys thereof, or less than twelve and a-half inches in actual measurement; and all brick walls shall be carried up on the construction aforesaid to the underside of the roof-boards, whether front, rear, or gable walls; and all gable or parapet walls surmounting roofs shall be at least one brick or nine inches in thickness, and shall be carried to the full height of one foot six inches above the roof on a square line in a square line therewith; and such walls, if built of stone, shall not be less than eighteen inches in thickness, and shall be carried up to their full thickness to the underside of the roof-board, whether front, rear, or gable wall; and all gable or parapet walls surmounting roofs or buildings, if built of stone, shall not be less than sixteen inches in thickness, and shall be carried up to the full height of one foot six inches above the roof on a square therewith; and all the exterior walls of shed abutting on lanes or passages other than streets shall be constructed of brick or stone, not less than nine inches in thickness. All buildings built of brick under two storeys in height, may be built of one brick in thickness, but shall not be less than nine inches through in actual measurement; and when the building is more than forty feet in height, the ground floor walls shall be at least two bricks or not less than sixteen inches in thickness; and when a building is more than sixty feet in height, at least two and a-half bricks or not less than twenty-one inches thick on the ground

floor, and two bricks or not less than sixteen inches thick on the first floor. Party walls shall be of corresponding thickness, and for every additional fifteen feet in height four inches shall be added to the thickness of the walls. The foundation walls shall in all cases be at least six inches thicker than the wall built thereon.

ROOFS AND VERANDAHS.

51. All roofs of buildings, roofs of lanterns, coverings of domes, spires, flats or towers, platforms or deck roofs, or other coverings of buildings, shall be finished externally with tin, iron, zinc, copper, slate, tile or felt and gravel, or with shingles laid in hair mortar not less than one-half of an inch in thickness, or some other material of incombustible nature; and no roof of any building already erected shall hereafter be re-laid or re-covered except with the materials before enumerated.

CHIMNEYS, FLUES, AND HEARTHES.

60. No breast of any chimney shall be supported by timber, except such piling or planking as may be necessary in the foundations, and all timber shall be at least eight inches below the hearth; chimneys back to back in party walls shall be in the chimney back at least one brick or nine inches in thickness; chimney backs in party walls, not being back to back with any other chimney, shall be at least seven inches clear from the party line. The thickness above specified shall be continued to a height of at least twelve inches above the mantel in every case. All flues built in internal, external, or party walls shall be surrounded by brickwork not less than seven inches in thickness.

61. All partitions or widths between flues shall be at least half a brick in thickness, and the breast and back of every chimney and every breast, back and partition or width of any flue shall be parapetted within.

62. Chimney hearths shall, in all cases, be laid wholly in brick or stone, unless the same be in a cellar or basement storey, and be laid and bedded in solid earth; and every chimney shall have a slab or slabs, or foot pieces before the same, of stone, brick, marble, iron or cement, at least one foot six inches broad, and extending at least six inches beyond each end of every fireplace opening. All fireplaces not in use shall be covered with iron sheet metal.

63. Section applicable to limits A, B, C and D.

The following sections from 64 to 67, inclusive, shall apply only to limits A, B, C and D.

ERECTION AND ALTERATION OF BUILDINGS.

(a) No person shall commence the erection of any new building, or the repair or alteration of any old building, when the cost of such repairs or alterations exceeds the sum of one hundred dollars, until he shall have first submitted the plans and specifications of the proposed building, alterations, or repairs to the Inspector of Buildings and shall have obtained his written certificate of the proposed building, alterations, or repairs, are in compliance

with the provisions of this By-Law, and will not involve a violation of any By-Law or regulation of the City relating to the prevention of fires, or the erection, repair, or alteration of buildings.

65. No person shall commence the erection of a building until a correct ground or block plan of such proposed building, drawn to a scale of eight feet to an inch, and showing the levels of the cellars and basements of such proposed building with reference to the level of the nearest adjoining street, shall have been deposited in the office of the Inspector of Buildings, who shall be responsible for the safe keeping of such plan, and shall, upon request, give to the person filing the same a certificate of date of such deposit.

66. In case any deviation is made during the progress of the construction of such building from the original plan thereof as filed under the preceding section, it shall be the duty of the person who filed the same to alter or procure the alteration of such original plan, or to file a new and correct plan within thirty days after the completion of such building.

PORCHES AND BAY WINDOWS.

67. Wooden porches may be erected, but they must not be larger than six feet by eight and one storey high. Gables, bay and oriole windows covered with tiles may be erected in the residential districts when the buildings are detached or semi-detached; a space of at least two feet must be maintained between such erections and the boundary line of the adjoining lot.

68. Sections applicable to Limit B not included in Limit A.

The following sections, 69 and 70, shall apply only to that portion of Limit B not included in Limit A.

CONSTRUCTION OF BUILDINGS.

69. No building shall be erected or placed on new or old foundations partly new and partly old, unless the same shall be built with main walls of brick, iron, or stone, and roofing of felt or gravel, or shingles laid in hair mortar not less than half an inch in thickness, or other incombustible material; and no wall of any building two storeys in height and upwards, built of brick, and no external or party walls, shall be less than one brick and a-half in thickness for the first story, and one brick in thickness or less than nine inches in actual measurement for the other storeys thereof; and all brick walls shall be carried up on the construction aforesaid to the underside of the roof-boards, whether front, rear, or gable walls; and all gable or parapet walls surmounting roofs of buildings shall be at least one brick or nine inches in thickness, and shall be carried to the full height of one foot six inches above the roof on a square line therewith; and such walls, if built of stone, shall not be less than eighteen inches in thickness, carried up to their full thickness to the underside of the roof-boards, whether front, rear, or gable walls; and all gable or parapet walls surmounting roofs of buildings, if built of stone, shall not be less than sixteen inches in thickness, and shall be carried to a full height of one foot six inches above the roof on a square line therewith; and all the exterior walls of sheds abutting on lanes or passages other than streets shall be constructed of brick or stone not less than nine inches in thickness. All buildings erected in terraces or rows must have one brick party wall to at least every thirty feet in length of frontage, and such party walls must be

equal in thickness to that required for outer walls, and be carried eighteen inches above the roof as before mentioned. The party walls in all semi-detached houses must be carried up close and flush to the roof-boards to divide each separate tenement, and to go through the roof to every second tenement with parapet walls.

WOODSHEDS AND CORNICES.

70. Wooden privies and woodsheds not exceeding ten by fourteen feet, one story high of ten feet, and distant at least six feet from any other buildings and from any street, may be erected (subject to the provisions of any By-law relating to the public health); and projecting wooden cornices, both to eaves and gables of buildings, may be constructed.

SECTIONS APPLICABLE TO LIMIT C.

71. The following sections, 72 and 73, inclusive, shall apply to limit C only:—

CONSTRUCTION OF BUILDINGS.

72. No buildings or erections of any description shall be constructed of wood, unless the roof of the same shall be constructed of some incombustible material or be covered with a rough coat of mortar of at least half an inch in thickness, then to be sheeted with galvanized or corrugated iron, except when the roofs are flat, in which case they shall be covered with felt and gravel, and the outer walls sheeted with galvanized or corrugated iron nailed on cleats in such a manner as to leave an air space between the iron and the wood, the whole to be approved of by the Inspector of Buildings.

73. No person shall erect any building until the plans thereof shall have been submitted to and approved of by the Inspector of Buildings, and certified by him as conforming to the provisions of this By-law, and that the same will not involve a violation of any By-law or regulation of the City relating to the prevention of fires, or the erection and repair or alteration of buildings.

SECTION APPLICABLE TO LIMIT D.

74. The next following section shall apply to limit D only:

CONSTRUCTION OF WOODEN BUILDINGS.

75. No wooden buildings shall be erected on old or new foundations, or foundations partly old and partly new, unless the same shall be rough-cast and roofed with some incombustible material, or shingles laid in hair mortar at least half an inch in thickness, and no roof of any building already built shall be relaid, except with the materials in this section mentioned. But the provisions of this section shall not apply to woodsheds or privies, except where the same are attached to the main building.

PENALTIES.

76. Any person convicted of a breach of any of the provisions of this By-law shall forfeit and pay, at the discretion of the convicting magistrate, a penalty not exceeding the sum of fifty dollars for each offence, exclusive of

costs; and, in default of payment of the said penalty and costs forthwith, the said penalty and costs, or costs only may be levied by distress and sale of the goods and chattels of the offender; and in case of there being no distress found out of which such penalty can be levied, the convicting Magistrate may commit the offender to the common gaol of the City of Toronto, with or without hard labour, for any period not exceeding six calendar months, unless the said penalty and costs be sooner paid.

77. Upon a conviction for a breach of any of the provisions of this By-law, the convicting magistrate, beside imposing a penalty under the next preceding section, may order the offender to carry out the requirements of this By-law within a time to be limited by the order, and in default of the offender carrying out such order, the City Commissioner, the City Engineer or other person duly authorized, shall forthwith, at the expense of the offender, take such means to carry out the requirements of this By-law as shall be necessary; and the expense thereof and costs may be covered by action or distress, and in case of non-payment thereof the same shall be recovered in like manner as municipal taxes.

For the schedule of fire limits see City By-laws, pages 199 to 204.

SANITARY LAWS.

A By-law to Secure the Sanitary Condition of Buildings.

PASSED 13TH JANUARY, 1890.

The Municipal Council of the Corporation of the City of Toronto enacts as follows:

DRAINS FOR SEWAGE FROM BUILDINGS.

1. It shall not be lawful to construct or extend any drain for the reception of sewage or waste water under or into any building (except stables), or to connect the same with any public or other sewer or drain, unless the said drain shall in its plan and construction conform to the following requirements:

(1) Between the house and the public sewer or drain there shall be placed a ventilation hand-hole cleaning trap of approved description and make.

(2) Between the said trap and the foot of the soil pipe there shall be connected with main house drain an inlet pipe, for the admission of fresh air, four inches in diameter, the mouth of which shall be left open or have a cap giving an area of one-fourth more than the diameter of the inlet pipe.

- (3) All soil pipes within the walls of any building shall be of iron or brass and shall be continued at least three feet above any opening in the roof and left open so that the whole of the inside drainage may be thoroughly and constantly ventilated.
- (4) Approved tile pipe may be used underground.
- (5) If the house is drained by a continuous iron soil pipe from the outer connection with the house drain at least three feet outside the wall to the opening above the roof, as hereinbefore provided, the trap and the fresh air inlet may be dispensed with.
- (6) The pipe shall have two cleaning-out screws, one to be about twelve inches above and in front of the bend at the basement floor, and the other between the said bend and the outer wall of the house.
- (7) All drains and plumbing fixtures of every house or other buildings shall be provided with sufficient traps and vents to prevent gas from the sewer, drain or waste-pipes from escaping into any apartment, and each such fixture shall have its own trap with sufficient vent.
- (8) No fixture shall drain through more than one trap (main tray excepted), the vent to be not less than one size smaller than trap, and no vent of less than one and one-quarter inches in diameter.
- (9) No trap vent pipe shall be less than three inches in diameter where it passes through the roof.
- (10) The rules for soil pipe terminus, as hereinbefore mentioned, shall govern said vent pipe.
- (11) Vents from water-closet traps shall be two inches for a length of twenty feet, and for a greater length three inches in diameter.
- (12) Closet vents into which other vents are connected shall be three inches in diameter.
- (13) Approved automatic vents may be substituted when necessary or advisable on special permit of City Engineer.
- (14) No safe waste, range-boiler or cistern overflow shall be allowed to connect direct with any drain.
- (15) All rain water leaders shall be trapped, and the trap shall be connected with the outside drain.
- (16) Refrigerator wastes shall be supplied with properly ventilated traps and be disconnected and have drip basins when necessary.

CONNECTION BETWEEN LEAD AND IRON PIPES.

2. Every connection between lead and iron pipes shall be made with brass thimbles or ferrules, having properly wiped joints, and the ferrules shall be properly gasketted, leaded and caulked into the said pipe. Ferrules for four-inch pipes shall weigh not less than $2\frac{1}{2}$ lbs. ; for three-inch pipes not less than $1\frac{3}{4}$ lbs. ; and for two-inch pipes not less than $1\frac{1}{2}$ lbs ; each ferrule not to be less than four-inches in length. All lead pipes shall have properly wiped joints. Where the trap to closets is above the floor, the connection of the same with the soil pipe shall be made of brass or rubber.

BUILDINGS TO HAVE SEPARATE SOIL PIPES AND DRAINS.

3. Each house or building must have its own separate soil pipe and drain, and such soil pipe or drain shall be so placed as to enable it to be readily inspected without destruction to walls, and the plumber shall be responsible for the proper connection of his work with the system of drainage, which connection shall be made by a cast iron bend and three feet of pipe, extending horizontally from the vertical soil pipe, and no two or more houses or buildings shall have any drain in common until each separate drain shall have passed outside the walls of the house or building which it serves. All drains must be properly connected with the private drain, and not covered until inspected. In no case shall the drains between the walls of the house and the street line be laid until the private drains from the street line to the public sewer shall have been first laid and completed.

4. All private drains laid by the city are to be taken to the outside of the wall where buildings are on the street line.

GLAZING EARTHENWARE DRAIN PIPES.

5. Vitrified salt-glazed earthenware drain pipes shall be equal in quality to those used in private drain connections; they shall be laid and jointed with Portland cement, or otherwise, as shall be specified from time to time by the City Engineer for the private drain connections contract. The pipe used for surface or weeping drains must be laid round the outside of the house walls where practicable, and trapped to connect with rain water leader. They shall have a trap placed on them which shall be easily accessible for flushing. All earthenware drains laid on newly made ground or very wet soil, shall be laid on a prepared foundation of plank or concrete. No built traps or mason's traps shall be used inside of any building. All traps shall be of vitrified salt-glazed earthenware or iron.

6. No iron pipe shall weigh less than the following per iron pipes, length of five feet:

6 inch diameter.....	100 lbs.
5 " "	85 "
4 " "	45 "
3 " "	30 "
2 " "	20 "

And all pipes, traps, bends or fittings shall be of good quality, and shall be free from flaws or defects, and shall be of uniform thickness.

PERMITS FOR CONSTRUCTION OF DRAINAGE, ETC.

7. Before proceeding to construct, re-construct or alter any portion of the drainage, ventilation or water system of any hotel, warehouse, dwelling-house or other building, the owner, or his agent, desiring to construct the same shall file in the office of the City Engineer an application for a permit therefor, and such application shall be accompanied with a specification or abstract thereof, in a blank form prescribed and supplied for this purpose, stating the nature of the work to be done, and giving the size, kind and weight of all

pipes, traps and fittings, and a description of all closets and other fixtures, and also a plan thereof, showing the street and street numbers marked thereon and the drainage system.

PLANS.

8. All plans must be legibly drawn in ink on heavy white paper or on tracing linen, and on a scale of eight feet to an inch.

GRANTING PERMITS.

9. A permit shall be granted or refused within two days from the time of filing the application, and (if granted) shall be valid for six months from the date of issue.

REFUSAL OF PERMITS.

10. If the City Engineer finds that the plan and specification do not conform with the rules and requirements laid down in respect thereto, he shall not issue any permit, and it shall be unlawful to proceed therewith.

INSPECTION OF WORK BY CITY ENGINEER.

11. The City Engineer shall be notified when any work is ready for inspection; and all works must be left uncovered and convenient for examination until inspected and approved of. The inspection shall be made within three days, except where the soil is of such a nature that it cannot be left open for the three days, when the inspection shall be made forthwith. The City Engineer or the Inspector, appointed by the Corporation for that purpose, may require either a water or a smoke test, which test shall be made by the party whose work is being inspected, except in case of a smoke test, when the Engineer or Inspector is supplying the machine or instrument to make such test; and the result of every inspection shall be recorded in the office of the City Engineer. At such seasons of the year when a water test would not be safe by reason of frost such test shall not be used. If the work is not found satisfactory after being tested, two days' notice shall be given to complete the same; and if the work is not made satisfactory in that time, the penalty prescribed by this By-law may be enforced forthwith.

ALTERATION OF PLAN.

12. After a plan or specification has once been approved of no alteration or deviation from the same shall be allowed, except on a written application of the owner, or agent of the owner, and with the approval of the City Engineer.

CLOSETS.

13. No pan closets shall be fitted up or used in any building; and no closet or other convenience, which allows the escape into the house of air or gas from any part of it, or from the drain or soil pipe connected with it, or which allows any accumulation of filth in or about it, shall be fitted up or used.

LEAD PIPES.

14. No lead, waste or vent pipes shall weigh less than the following :

1 inch in diameter, 6 lbs. per yard.			
1 $\frac{1}{4}$ "	"	7	" "
1 $\frac{1}{2}$ "	"	8	" "
2	"	10 $\frac{1}{2}$	" "
2 $\frac{1}{2}$ "	"	13 $\frac{1}{2}$	" "
3	"	16 $\frac{1}{2}$	" "
4	"	24	" "

Trap vent pipes may be of standard wrought iron with steam fittings. Sheet metal shall not be allowed. All traps and fittings shall be equal in quality and thickness to the pipe to which they are attached.

COCKS AND HYDRANTS.

15. Every water cock, bibb, tap, or hydrant attached to any water service or pipe connected with and supplied from the *Water Works* system of the city, shall have legibly stamped thereon, in a conspicuous place, the name of the maker, and shall be properly tested both as to strength and weight before being so attached.

LAYING WATER SUPPLY PIPES.

16. All water supply pipes shall be laid with due regard to danger from freezing, and shall be properly laid and graded with a fall to a stop and waste cock placed in the cellar or other convenient place, where they can be entirely drained off. Each consumer in a tenement building shall be supplied with a separate stop and waste cock on the service pipe inside the building, unless the same is metered.

LEAD PIPES FOR WATER WORKS PRESSURE.

17. For water works pressure no pipes shall weigh less than the following

	inch internal diameter	4 lbs. per lineal yard.	
	"	"	6 " " "
	"	"	8 " " "
	"	"	10 " " "
I	"	"	13 " " "

PLUMBER'S REPORT ON WATER WORKS PIPES.

18. Every master plumber who shall himself, or by his apprentices, agents or employees, make any extensions of, or alterations to, or shall remove any tap, pipe or other fixture attached to the pipes of the water works, shall on the last day of the month in which such extension, alteration or removal is made, report the nature and extent of the same in writing to the Superintendent of the Water Works Department upon printed forms to be supplied by said department.

SHUTTING OFF STREET STOP COCKS CONNECTED WITH THE WATER WORKS.

19. No person shall be allowed, without having first obtained a permit from the Water Works Department, to open or shut off the street stop-cock connected with the service supplying any premises or buildings, unless in case of urgent necessity to prevent loss or damage from flooding, or where a plumber requires to do so in order to make necessary repairs, or to test his work, and in every such case he shall leave the stop-cock as he found the same, and any person who shall commit any damage or injury to any stop-cock in the service pipes of the department shall be liable for the amount of such damage.

INSPECTION BY CITY ENGINEER.

20. All work contemplated in this by-law shall be done in a workmanlike manner, and shall be subject to the inspection, supervision and approval of the City Engineer or any Inspector appointed by the Council for that purpose; and all faulty and defective work which may at any time be discovered shall be made perfect to the satisfaction of the City Engineer or Inspector, and when so found satisfactory, a certificate shall issue to the plumber at the expiration of thirty days from date of inspection, unless in the meantime such work shall have become faulty or defective.

CLEANING WATER CLOSETS.

21. No arrangements shall be made for supplying water closets or urinals, except by self-closing cocks; and no arrangements shall be made for cleaning water closets or privy vaults by waste pipes from wash basins or sinks, or other improper means, but they shall be fitted up with the proper fixtures and appurtenances belonging to them respectively.

PENALTY.

22. Any person convicted of a breach of any of the provisions of this By-Law shall forfeit and pay, at the discretion of the convicting Magistrate, a penalty not exceeding the sum of fifty dollars for each offence, exclusive of costs; and in default of payment of the said penalty and costs forthwith, the said penalty and costs, or costs only, may be levied by distress and sale of the goods and chattels of the offender; and in case of their being no distress found out of which such penalty can be levied, the convicting Magistrate may commit the offender to the common gaol of the City of Toronto, with or without hard labour, for any period not exceeding six calendar months, unless the said penalty and costs be sooner paid.

THE MECHANICS' LIEN ACT.

Her Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows :

I. This Act may be cited as "The Mechanics' Lien Act." R. S. O. 1877, C. 120, S. 1.

II. Where the following words occur in this Act, or in the schedules thereto, they shall be construed in the manner hereinafter mentioned, unless a contrary intention appears :—

1. "Contractor" shall mean a person with or employed directly by the owner for the doing of work or placing or furnishing of machinery or materials for any of the purposes mentioned in this Act ;

2. "Sub-contractor" shall mean a person not contracting with or employed directly by the owner for the purposes aforesaid, but contracting with or employed by the "contractor" or under him by another "sub-contractor" ;

3. "Owner" shall extend to and include a person having any estate or interest in the lands upon or in respect of which the work is done, or materials or machinery are placed or furnished, at whose request and upon whose credit or upon whose behalf or with whose privity or consent or for whose direct benefit any such work is done, or materials or machinery placed or furnished, and all persons claiming under him, whose rights are acquired after the work in respect of which the lien is claimed is commenced, or the materials or the machinery furnished have been commenced to be furnished. R. S. O. 1877, C. 120, S. 2.

III. No agreement shall be held to deprive anyone otherwise entitled to a lien under this Act, and not a party to the agreement, of the benefit of the lien, but the lien shall attach, notwithstanding such agreement. 47 V. C. 18, S. 1, *part.*

4. Unless he signs an express agreement to the contrary, every mechanic, machinist, builder, miner, labourer, contractor or other person doing work upon, or furnishing materials to be used in, the construction, alteration or repair of any building or erection, or erecting, furnishing or placing machinery of any kind in, upon or in connection with any building, erection or mine, shall by virtue of being so employed or furnishing, have a lien for the price of the work, machinery or materials, upon the building, erection or mine, and the lands occupied thereby or enjoyed therewith, limited in amount to the sum justly due to the person entitled to the lien. R. S. O. 1877, C. 120, S. 3; 47 V. C. 18, S. 1, *part.*

V. (1) The lien shall attach upon the estate and interest of the owner, as defined by this Act, in the building, erection or mine upon or in respect of which the work is done or the materials or machinery placed or furnished, and the land occupied thereby or enjoyed therewith.

(2) In cases where the estate or interest charged by the lien is leasehold, the fee simple may also, with the consent of the owner thereof, be subject to

said charge, provided such consent is testified by the signature of such owner upon the claim at the time of the registering thereof, and duly verified. R. S. O. 1877, C. 120, s. 6; 47 V. C. 18, S. 5.

(3) In case the land upon or in respect of which any work as aforesaid is executed, or labour performed or upon which materials or machinery are placed is incumbered by a prior mortgage or other charge, and the selling value of the land is increased by the construction, alteration or repairs of the building, or by the erection or placing of the materials or machinery, the lien under this Act shall be entitled to rank upon the increased value in priority to the mortgage or other charge. R. S. O. 1877, C. 120, S. 7; 45 V. C. 15, S. 13.

VI. (1) Without prejudice to any lien which he may have under the preceding sections, every mechanic, labourer or other person who performs labour for wages upon the construction, alteration or repairs of any building or erection, or in erecting or placing machinery of any kind in, upon, or in connection with, any building, erection, or mine, shall to the extent of the interest of the owner have, upon the building, erection, or mine, and the land occupied thereby and enjoyed therewith, a lien for such wages, not exceeding the wages of thirty days, or a balance equal to his wages for thirty days.

(2) The lien for wages given by this section shall attach when the labour is in respect of a building, erection or mine belonging to the wife of the person at whose instance the work is done upon the estate or interest of the wife in such property, as well as upon that of her husband. 45 V. C. 15, Secs. 2, 3.

VII. In all cases, the owner shall, in the absence of a stipulation to the contrary, be entitled to retain for a period of thirty days after the completion of the contract, ten per centum of the price to be paid to the contractor. 45 V. C. 15, S. 5.

VIII. In case the lien is claimed by a sub-contractor, the amount which may be claimed in respect thereof shall be limited to the amount payable to the contractor or sub-contractor (as the case may be) for whom the work has been done, or materials or machinery have been furnished or placed. R. S. O. 1877, C. 120, S. 6.

IX. (1) All payments, up to ninety per centum of the price to be paid for the work, machinery or materials, as defined by section 4 of this Act, made in good faith by the owner to the contractor, or by the contractor to the sub-contractor, or by one sub-contractor to another sub-contractor, before notice in writing, by the person claiming the lien has been given to such owner, contractor or sub-contractor (as the case may be), of the claim of such person, shall operate as a discharge *pro tanto* of the lien created by this Act, but this section shall not apply to any payment made for the purpose of defeating or impairing a claim to a lien existing or arising under this Act. 41 V. C. 17, S. 1.

(2) A lien shall, in addition to all other rights or remedies given by this Act, also operate as a charge to the extent of ten per centum of the price to be paid by the owner for the work, machinery or materials as defined by section 4 of this Act up to ten days after the completion of the work or of the delivery of the materials, in respect of which such lien exists, and no longer, unless notice in writing be given as herein provided. 41 V. C. 17, S. 2.

(3) A lien for wages for thirty days, or for a balance equal to the wages for thirty days, shall, to the extent of the said ten per cent. of the price to be paid to the contractor, have priority over all other liens under this Act, and over any claim by the owner against the contractor for, or in consequence of the failure of the latter to complete his contract. 45 V. C. 15, S. 4.

X. Save as herein provided, the lien shall not attach so as to make the owner liable to a greater sum than the sum payable by the owner to the contractor. R. S. O. 1877, C. 120, S. 6, *part*; 45 V. C. 15, S. 4.

XI. All persons furnishing material or doing labour for the person having a lien under this Act, in respect of the subject of such lien, who notify the owner of the premises sought to be affected thereby, within thirty days after such material is furnished, or labour performed, of an unpaid account or demand against such lien-holder, for such material or labour, shall be entitled, subject to the provisions of sections 6 and 9, payable by such owner, under said lien; and if the owner thereupon pays the amount of such charge to the person furnishing material, and doing labour as aforesaid, such payment shall be deemed a satisfaction *pro tanto* of such lien. R. S. O. 1877, C. 120, S. 8.

XII. In case of a dispute as to the validity or amount of an unpaid account or demand, of which notice is given to the owner under the preceding section, the same shall be first determined by action in the proper court in that behalf or by arbitration, in manner mentioned in section 14 at the option of the person having the unpaid account or demand against the lien holder; and pending the proceedings to determine the dispute, so much of the amount of the lien as is in question therein may be withheld from the person claiming the lien. R. S. O. 1877, C. 120, S. 9.

XIII. In case the person primarily liable to the person giving such notice as mentioned in section 11 fails to pay the amount awarded within ten days after the award is made, the owner, contractor or sub-contractor may pay the same out of any moneys due by him to the person primarily liable as aforesaid, on account of the work done or materials or machinery furnished or placed in respect of which the debt arose; and such payment if made after an award (or if made without any arbitration having been previously had or dispute existing, then, if the debt in fact existed and to the extent thereof,) shall operate as a discharge *pro tanto* of the moneys so due as aforesaid to the person primarily liable. R. S. O. 1877, C. 120, S. 10.

XIV. (1) In case a claim is made by a sub-contractor in respect of a lien to which he is entitled, and a dispute arises as to the amount due or payable in respect thereof, the same shall be settled by arbitration.

(2) One arbitrator shall be appointed by the person making the claim, one by the person by whom he was employed, and the third arbitrator shall be appointed by the two so chosen.

(3) The decision of the arbitrators or a majority of them shall be final and conclusive. R. S. O. 1877, C. 120, S. 18.

(4) In case either of the parties interested in any such dispute, refuses or neglects within three days after notice in writing requiring him to do so, to appoint an arbitrator, or if the arbitrators appointed fail to agree upon a third, the appointment may be made by a County Judge of the county in which the lands in respect of which the lien is claimed are situate. R. S. O. 1877, C. 120, S. 19.

XV. During the continuance of a lien, no portion of the property or machinery affected thereby, shall be removed to the prejudice of the lien; and any attempt at such removal may be restrained by application to the County Court or the Judge thereof, or the High Court respectively, according as the claim is under or over the sum of \$200. R. S. O. 1877, C. 120, S. 22.

XVI. (1) A claim of lien applicable to the case, may be registered in the registry division in which the land is situate, and shall state:

(a) The name and residence of the claimant and of the owner of the property to be charged, and of the person for whom and upon whose credit the work is done or materials or machinery furnished, and the time or period within which the same was, or was to be, done or furnished;

(b) The work done or materials or machinery furnished;

(c) The sum claimed as due, or to become due;

(d) The description of the land to be charged;

(e) The date of expiry of the period of credit agreed to by the lien-holder or payment for his work, materials or machinery, where credit has been given.

(2) The claim may be one of the forms given in the schedule in this Act, and shall be verified by the affidavit of the claimant, or of his agent or assignee having full knowledge of the matters required to be verified, and the affidavit of an agent or assignee shall state he has such knowledge. R. S. O. 1877, C. 120, S. 4 (1, 2); 47 V. C. 18, Secs. 2, 3.

XVII. A claim for wages may include the claims of any number of mechanics, labourers, or other persons aforesaid, who may choose to unite therein. In such case each claimant shall verify his claim by his affidavit, but need not repeat the facts set out in the claim; and an affidavit substantially in accordance with form 4 in the schedule to this Act, shall be sufficient. 45 V. C. 15, Secs. 8, 10.

XVIII. (1) The registrar, upon payment of his fee, shall register the claim, so that the same may appear as an incumbrance against the land therein described. R. S. O. 1877, C. 120, S. 5; 47 V. C. 18, S. 4, *part*.

(2) The fee for registration shall be twenty-five cents; if several persons join in one claim, the registrar shall have a further fee of ten cents for every person after the first. 45 V. C. 15, S. 11.

(3) The registrar shall not be bound to copy in any registry book any claim or affidavit, but he shall number each claim, and shall insert in the alphabetic and abstract indexes, the like particulars as in other cases; he may describe the nature of the instrument as "Mechanics' Lien." 45 V. C. 15, S. 11.

XIX. Where a claim is so registered, the person entitled to the lien shall be deemed a purchaser *pro tanto*, and within the provisions of *The Registry Act*, but except as herein otherwise provided, *The Registry Act* shall not apply to any lien arising under this Act. R. S. O. 1877, C. 120, Secs. 4 (3), 26.

XX. (1) Where the lien is for wages under sections 6 or 9, the claim may be registered.

(a) At any time within thirty days after the last day's labour for which the wages are payable, or

(b) At any time within thirty days after the completion of the construction, alteration or repair of the building or erection, or after the erecting or placing of the machinery, or in towards which, respectively, the labour was performed and the wages earned, but so that the whole period shall not exceed sixty days from the last day's labour aforesaid.

(2) Such lien shall not be entitled to the benefit of the provisions of sections 6 and 9 after the said respective periods, unless the same is duly registered before the expiration of the said periods so limited. 45 V. C. 15, S. 6.

(3) Such lien shall have the same priority for all purposes after as before registration.

XXI. In other cases the claim may be registered before or during the progress of the work, or within thirty days from the completion thereof, or from the supplying or placing the machinery. 45 V. C. 15, S. 7.

XXII. Every lien which has not been duly registered under the provisions of this Act shall absolutely cease to exist on the expiration of the time hereinbefore limited for the registration thereof, unless in the meantime proceedings are instituted to realize the claim under the provisions of this Act, and a certificate thereof (which may be granted by the Court or a Judge before whom or in which the proceedings are instituted) is duly registered in the registry office of the registry division wherein the lands in respect of which the lien is claimed are situate. R. S. O. 1877, C. 120, S. 20.

XXIII. Every lien which has been duly registered under the provision of this Act shall absolutely cease to exist after the expiration of ninety days after the work has been completed, or materials or machinery furnished, or wages earned, or the expiry of the period of credit, where such period is mentioned in the claim of lien filed, unless in the meantime proceedings are instituted to realize the claim under the provisions of this Act, and a certificate thereof (which may be granted by the Court or Judge before whom or in which the proceedings are instituted) is duly registered in the registry office of the registry division wherein the lands in respect of which the lien is claimed are situate. R. S. O. 1877, C. 120, S. 21.

XXIV. If there is no period of credit, or if the date of expiry of the period of credit is not stated in the claim so filed, the lien shall cease to exist upon the expiration of ninety days after the work has been completed or materials or machinery furnished, unless in the meantime proceedings shall have been instituted pursuant to section 23 of this Act. 47 V. C. 18, S. 2.

XXV. In the event of the death of a lien-holder, his right of lien shall pass to his personal representatives; and the right of a lien-holder may be assigned by any instrument in writing. R. S. O. 1877, C. 120, S. 16.

XXVI. A lien may be discharged by a receipt signed by the claimant, or his agent, duly authorized in writing, acknowledging payment, and verified by affidavit and filed; such receipt shall be numbered and entered by the registrar like other instruments, but need not be copied in any book; the fees shall be the same as for registering a claim or lien. 45 V. C. 15, S. 15; 47 V. C. 18, S. 4.

XXVII. Where there is a contract for the execution of the work, as hereinbefore mentioned, the registration of all discharges of liens shall be at the cost of the contractor, unless a court or judge otherwise orders. 45 V. C. 15, S. 16; 47 V. C. 18, S. 4.

XXVIII. (1) Where the amount of the claims in respect of any lien is within the jurisdiction of the County or Division Courts respectively, proceedings to recover the same, according to the usual procedure of the said Court by judgment and execution, may be taken in the proper Division Court or in the County Court of the County in which the land charged is situate; or proceedings may be taken before the judge of the said Courts, who may proceed in a summary manner by summons and order, and may take accounts

and make requisite enquiries, and in default of payment may direct the sale of the estate and interest charged, and such further proceedings may be taken as the judge directs.

(2) Any conveyance under the seal of the County Court Judge shall be effectual to pass the estate or interest sold.

(3) The fees and costs in all proceedings taken under this section shall be such as are payable in respect of the like or similar matters according to the ordinary procedure of the said courts respectively. R. S. O. 1877, C. 120, S. 12.

XXIX. In cases other than those specified in the preceding section the lien may be realized in the High Court, according to the ordinary procedure of that Court. R. S. O. 1877, C. 120, S. 13.

XXX. (1) Any number of lien-holders may join in one action, and any action brought by a lien-holder shall be taken to be brought on behalf of all the lien-holders of the same class who shall have registered their liens before or within thirty days after the commencement of the action, or who shall within the said thirty days file in the proper office of the court from which the writ issued a statement entitled in or referring to the said action, of their respective claims.

(2) In the event of the death of the plaintiff, or his refusal or neglect to proceed, any other lien-holder of the same class who has registered his lien or filed his claim in the manner and within the time above limited for that purpose, may be allowed to prosecute the action on such terms as may be deemed just and reasonable. 47 V. C. 18, S. 6.

(3) In case of a sale of the estate and interest charged with the lien, the court or judge may direct the sale to take place at any time after one month from the recovery of judgment, and it shall not be necessary to delay the sale for a longer period than is requisite to give a reasonable notice thereof.

(4) The said court or judge may also direct the sale of any machinery and authorize its removal. R. S. O. 1877, C. 120, S. 14.

(5) Where judgment is given in favour of a lien, the court or judge may add to the judgment the costs of and incidental to registering the lien as well as the costs of the action. 45 V. C. 15, S. 14.

(6) Where there are several liens under this Act against the same property, each class of the lien-holders shall, subject to the provisions of sections 5, 9 and 11, rank *pari passu* for their several amounts, and the proceeds at any sale shall, subject as aforesaid, be distributed amongst them *pro rata*, according to their several classes and rights, and they shall respectively be entitled to execution for any balance due to them respectively after said distribution. R. S. O. 1877, C. 120, S. 17.

(7) Upon application to the County Court, in claims under \$200, and to the High Court in other cases, the court or judge may receive security or payment into court in lieu of the amount of the claim, and may thereupon vacate the registry of the lien.

(8) The court or judge may annul the said registry upon any other ground. R. S. O. 1877, C. 120, S. 23.

(9) In any of the said cases mentioned in sub-sections 7 and 8, the court or judge may proceed to hear and determine the matter of the said lien, and make such order as seems just, and in case the person claiming to be entitled to such lien has wrongfully refused to sign a discharge thereof, or without

just cause claims a larger sum than is found by such court or judge to be due, the court or judge may order and adjudge him to pay costs to the other party. R. S. O. 1877, C. 120, S. 24; 47 V. C. 18, S. 7.

XXXI. Where any mechanic, artizan, machinist, builder, miner, contractor or other person, has furnished or procured materials for use in the construction, alteration or repair of any building, erection or mine, at the request of and for some other person, such materials shall not be subject to execution or other process, to enforce any debt (other than the purchase thereof) due by the person furnishing or procuring such materials, and whether the same have or have not been in whole or in part worked into or made part of such building or erection. R. S. O. 1877, C. 120, S. 25.

XXXII. (1) Every mechanic or other person who has bestowed money or skill and materials upon any chattel or thing in the alteration and improvement in its properties or for the purpose of imparting an additional value to it so as thereby to be entitled to a lien upon such chattel or thing for the amount or value of the money or skill and materials bestowed, shall, while such lien exists but not afterwards, in case the amount to which he is entitled remains unpaid for three months after the same ought to have been paid, have the right in addition to all other remedies provided by law to sell the chattel or thing in respect of which the lien exists, on giving one week's notice by advertisement in a newspaper published in the municipality in which the work was done, or in case there is no newspaper published in such municipality, then in a newspaper published nearest thereto, stating the name of the person indebted, the amount of the debt, a description of the chattel or thing to be sold, the time and place of sale, and the name of the auctioneer, and leaving a like notice in writing at the last or known place of residence (if any) of the owner, if he be a resident of such municipality.

(2) Such mechanic or other person shall apply the proceeds of the sale in payment of the amount due to him and the costs of advertising and sale, and shall upon application pay over any surplus to the person entitled thereto. 41. V. C. 17, S. 3.

A BY-LAW
TO
Provide for the Appointment of Plumbing Inspectors,
AND TO
LICENSE AND REGULATE PLUMBERS.

PASSED 13th JANUARY, 1890.

The Municipal Council of the Corporation of the City of Toronto enacts as follows:

BOARD OF PLUMBING EXAMINERS.

A Board of Plumbing Examiners is hereby constituted, to consist of the City Engineer, the Superintendent of Water Works, one practical master plumber in good standing in the City, to be chosen by the Master Plumbers' Association; one practical plumber, to be chosen by the Journeymen Plumbers' Association; and one architect or sanitary engineer, practising in the City, to be appointed by the City Engineer. The last three shall hold office for one year after their appointment, and shall be paid a fee of \$4 for each session of the Board. The Board shall be called together by the City Engineer (who shall be chairman of the Board) at such times as he shall consider necessary.

In case a dispute arises under this By-Law as to whether any person employed by a licensed master plumber is a regularly educated, practical and experienced plumber, and said master plumber may require the City Engineer to permit the said workman to be examined before the Board of Examiners, whose decision as to the competency of said workman shall be final and conclusive.

INSPECTORS.

The City Engineer shall appoint such Inspectors of Plumbing as may be necessary; but no person shall be eligible for such appointment who shall not have passed a satisfactory examination before the Board of Examiners as to his proficiency in both the practice and theory of plumbing and drainage.

Such Inspectors shall be under the supervision of the City Engineer, and shall be attached to his department.

PLUMBERS' LICENSES.

Every person desiring to carry on business or trade as a master plumber, within the City, shall take out a license, for which license such person shall pay at the time of the issuing thereof the sum of ten dollars, except as hereinafter provided.

Every license, unless expressed to be granted for a shorter period, and unless the same be sooner forfeited, shall be for the year current at the time of the passing thereof, and shall expire on the 31st of December not exceeding the date of the same, and the amount payable for any license issued between the first day of January and the first day of July in any year shall be equal to the charge for the full year, and for every license issued subsequent to the first day of July the charge shall be \$7.50.

Every person desiring a license shall file with the General Inspector of Licenses a petition in writing, giving the name of the applicant (and in case of a partnership the name of each member thereof), with his place of business, and asking to become a licensed master plumber; and the petition shall be accompanied by the bond mentioned in section 9 of this By Law.

A partnership of two or more persons desiring to carry on the business of master plumbers may do so upon obtaining a license; and the word "person" in this By-Law shall include such partnership. When two or more persons are licensed as partners, the license shall be issued in the name of the firm or co-partnership.

No person shall receive such license unless he is the full age of twenty-one years, and has a place of business within the city, and furnished a bond binding himself to the amount of \$200, with at least two sureties in the sum of \$100 each to the satisfaction of the General Inspector of Licenses, that he is himself a practical plumber, or that he will employ a sufficient number of regular, educated, practical, and experienced plumbers to do all plumbing work which he may engage to do; and (whether he is a practical plumber himself or not) will not permit or allow any work to be done by or for him, or in connexion with his business, except by such competent workmen, and that he will not violate any of the terms, conditions, rules and regulations contained in any By-law respecting plumbing, drainage, sanitary matters, or waterworks.

Any change in the firm or location of the business shall be promptly reported to the General Inspector of Licenses.

Every license shall be kept posted in a conspicuous place in the place of business of the license.

No license issued under this By-law shall be transferable.

All licensed master plumbers shall be held responsible for all acts of their apprentices or employees in connection with the business for which the license is issued.

FORFEITURE OF LICENSES.

Upon satisfactory evidence being furnished to the City Engineer and Superintendent of the Waterworks that any plumber has been twice convicted of a violation of the provisions of this By-law, or of any of the By-laws respecting plumbing, drainage, sanitary matters or waterworks, the City Engineer and Superintendent of Waterworks may declare the license of said plumber forfeited.

Any plumber whose license has been declared forfeited shall not again be entitled to a license until the declaration of forfeiture has been revoked by the City Engineer and Superintendent of Waterworks, or by the Committee having charge of the particular department to which the By-law so violated relates.

REGISTRATION OF JOURNEYMEN PLUMBERS.

Every journeyman plumber shall annually, on or before the first day of January in each year, register in the office of the General Inspector of

Licenses, his name, age, and residence, the name of his employer, and the length of time he has been at work as a journeyman plumber, and shall pay a fee of twenty-five cents for such registration.

PENALTY.

Any person convicted of a breach of any of the provisions of this By-law shall forfeit and pay, at the discretion of the convicting Magistrate, a penalty not exceeding the sum of fifty dollars for each offence, exclusive of costs; and in default of payment of the said penalty and costs forthwith, the said penalty and costs, or costs only, may be levied by distress and sale of the goods and chattels of the offender; and in case of there being no distress found, out of which such penalty can be levied, the convicting Magistrate may commit the offender to the common gaol of the City of Toronto, with or without hard labour, for any period not exceeding six calendar months, unless the said penalty and costs be sooner paid.

TORONTO WATER WORKS.

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A BY-LAW

RESPECTING THE

MANAGEMENT OF THE TORONTO WATER WORKS,

AND TO

ESTABLISH A TARIFF OF WATER RENTS AND RATES.

PASSED 13TH JANUARY, 1890.

The Municipal Council of the City of Toronto enacts as follows :

COMMITTEE ON WATER WORKS.

1. The Water Works Department of the City of Toronto shall be under the general direction of the Standing Committee on Water Works.

THE SUPERINTENDENT.

2. There shall be an officer appointed by the Council to be called the Superintendent of Water Works.

3. The following shall be the duties of the Superintendent, in addition to those prescribed by law or by any By-law or resolution of the Council, or of the Committee on Water Works:—

INSPECTION OF BUILDINGS.

(1) Subject to direction of the Standing Committee on Water Works and the Council, to have charge of all the various properties and works required for the supply of the City with water, and of the inspection and rating of all buildings and premises supplied with water.

(2) To have the immediate control of all officials connected with the Department.

(3) To have the preparation, control, arrangement, and supervision of the books of the Department.

APPLICATIONS, NOTICES, AND TURNING OFF AND ON OF WATER.

4. Applications either for the laying of service-pipes, or for the turning on or off the water to premises shall be made in writing at the Water Works Office, and upon the required forms.

5. Persons making application for the use of water for any premises shall, at the time of application, pay the rate for the half-year then current in advance, subject to the reduction allowed on general rates under section 39 of this By-law, and the water shall not be turned on to the said premises until such payment has been made. This section shall not apply in case of water-takers who are about to be supplied by meter measurement, nor in the case of parties whose rate is dependent upon an estimate to be subsequently made, but in such latter case, or in special cases, the water may be turned on to the premises at the discretion of the Superintendent, subject to the approval of the Water Works Committee.

WATER TURNED OFF NOT TO BE TURNED ON TILL DUES PAID.

6. In any case where the water shall have been turned off from any premises by reason of the non-payment of the rates or charges, the water shall not again be turned on to such premises until, in addition to the rates or charges due, the person in default shall have paid a further sum of one dollar to cover the cost of such turning off and on of the water.

7. The use of the water shall not be granted for any special purpose, unless in addition to the special rate therefor, the ordinary rating of the building be also paid.

8. Any person about vacating any premises that have been supplied with water from the Water Works, or who is desirous of discontinuing the use thereof, must give due notice of the same at the Water Works Office, otherwise he will be held liable for the rates therefor.

FIXTURES AND PREMISES.

9. Applicants shall give a full and true statement, on the form provided by the Department, of the size and description of their premises, the number of inmates, the various uses to which the water is about to be put, the num-

ber and description of fixtures required, and all other information that may be necessary in order that a correct estimate of the charge to be made against them may be arrived at.

ALTERATIONS OF PREMISES.

10. Notice must be given in writing at the Water Works Office, and written permission must be obtained therefrom, before any change or addition is made to the number or description of fixtures on any premises.

CLOSETS.

11. None but pan and self-closing closets shall be permitted in connection with the Water Works.

12. In cases in which it may be desired to discontinue the use of any fixtures or attachments, before the rate that is payable therefor, can be remitted, such fixtures or attachments must be completely cut off and detached from the water supply to the satisfaction of the Superintendent, or his authorized inspector; and no person shall re-attach the same without giving notice at the Water Works Office.

13. All persons having fixtures and attachments for fountains, hose and lawn sprinklers, will be held chargeable with the rate therefor whether the same be actually used or not, subject however to the conditions of the preceding section.

14. In case of leaky or improper pipes or fixtures on any premises, the Superintendent shall have authority to cut off the supply of water by shutting the stop-cock, or by detaching the service-pipe from the main, and before the water is again turned on the pipes and fixtures shall be repaired or altered as required, and the cost of detaching and re-attaching or of turning off and on of the water shall be paid by the person occupying or owning the premises, and no person supplied from such service pipe shall have any claim against the Corporation by reason of such cutting-off of the water.

SERVICE PIPES.

15. Upon the receipt of an application from the owner or occupant of any premises, the Corporation will provide and lay down, free of cost, an ordinary house-service from the main to the street line or boundary, when, in the opinion of the Superintendent, such service is necessary.

16. Only one ordinary house service pipe for the supply of any single house or premises shall be laid by the Corporation free of charge, and any person desiring more than one such service for the supply of his premises shall, subject to the approval of the Superintendent, be supplied with the same, and shall be charged with the extra cost; but such extra service shall only be laid upon the condition that all connections in such house or premises shall be detached from any existing service or services, and attached to such extra service by such person whenever the Superintendent shall so direct.

17. Any person making application for the laying of service-pipes, other than the ordinary house service, from the main to the street line or boundary, shall, at the time of such application, deposit with the City Treasurer a sum

equal to the cost of providing such service, such cost to be determined by the Superintendent, and upon the receipt of such sum the Corporation will provide such service-pipe.

SIZE OF PIPES.

18. The Corporation shall in every case determine the size of the pipe to be used in supplying any premises, and also the position in the street in which it is to be laid.

19. When any departure from the prescribed rules is permitted in order to accommodate a water-taker, the water-taker shall be charged with the expense of making the change.

20. No work of any kind connected with the water services, either for the laying of new or the repair of old services, shall be permitted to be done upon or under the streets by other than the employees of the Corporation.

21. No work shall be done by the Corporation upon the premises of water-takers, except the placing of meters, but the Corporation may direct all work to be done in connection with water services.

LAYING SERVICE-PIPES.

22. Any direction as to the position in which it may be desired to have the service-pipe laid, when such directions does not interfere with the requirements of the Corporation, must be given in writing at the Water Works Office, and the applicant shall be notified of the time at which the service pipe is to be laid.

23. If any party fail to appear at the time appointed for laying the service-pipe the work may be proceeded with in the ordinary way, and any subsequent alteration shall only be made at the expense of the water-taker.

24. In all cases the water-taker must show that the pipe laid within his premises is laid according to the requirements of the Corporation, and, unless the same is shown to the satisfaction of the inspector or foreman of the Water Works in charge of the work, connection shall not be made with the street pipe.

25. No two premises supplied with water from the Water Works shall be dependent upon one service-pipe beyond the street line, but each separate and distinct tenement or premises shall be supplied through a separate pipe provided with proper stop-cocks, or other means of cutting off the water.

26. All service-pipes upon the premises of water-takers shall be laid at a depth of not less than five feet six inches below the level of the surrounding ground; and where they cross or are near other excavations they must be properly protected against settlement.

27. The material employed in the construction of service-pipes shall correspond in all particulars with that of a similar kind used by the Corporation.

KEY HYDRANTS.

28. Key hydrants for the supply of a number of houses shall not be allowed, except by permission of the Superintendent.

CARE AND PROTECTION OF PIPES.

29. All persons shall keep their service-pipes, stop-cocks and other fixtures on their own premises and from the line of the street in good order and repair, and protected from frost at their own risk and expense.

30. No person, being an owner, occupant, tenant, or inmate of any house supplied with water from the Water Works, shall increase the supply of water beyond that fixed by the rating of the premises, nor shall wrongfully, negligently or improperly waste any water.

SELLING WATER.

31. No person being an occupant, tenant, or inmate of any house supplied with water from the Water Works, shall vend, sell, or dispose of the water therefrom, or give away, or permit the same to be carried or taken away, or use or apply it for the benefit of others, or to any other than his own use or benefit.

PENALTIES.

32. Any person guilty of an infraction of the provisions of sections 30 or 31 of this By-law, shall, upon conviction, forfeit and pay a penalty not exceeding the sum of \$20 (for Water Works purposes) for each offence; or shall be imprisoned, with or without hard labour, in the Common Gaol of the City of Toronto, for a period not exceeding one calendar month; the amount of such fine and duration of such imprisonment, and also the option between fine and imprisonment with or without hard labour, being always in the discretion of the Justice of the Peace before whom the conviction takes place.

For schedule of water rates, see page 249 By-laws of the City of Toronto.

CONVERTING SUPERFICIAL MEASURE INTO BOARD MEASURE FOR FLOORS.

SIZE.	10 inch centres.	12 inch centres.	14 inch centres.	16 inch centres.	18 inch centres.	20 inch centres.	22 inch centres.	24 inch centres.	26 inch centres.	28 inch centres.	30 inch centres.
2 x 2	0.400	0.333	0.286	0.250	0.222	0.200	0.182	0.167	0.155	0.143	0.133
2 x 4	0.800	0.667	0.571	0.500	0.444	0.400	0.364	0.333	0.309	0.286	0.267
2 x 6	1.200	1.000	0.857	0.750	0.667	0.600	0.545	0.500	0.464	0.429	0.400
2 x 8	1.600	1.333	1.143	1.000	0.889	0.800	0.727	0.667	0.618	0.571	0.533
2 x 10	2.000	1.667	1.429	1.250	1.111	1.000	0.909	0.833	0.773	0.714	0.667
2 x 12	2.400	2.000	1.714	1.500	1.333	1.200	1.091	1.000	0.928	0.857	0.800
2 x 14	2.800	2.333	2.000	1.750	1.556	1.400	1.273	1.167	1.082	1.000	0.933
2 x 16	3.200	2.667	2.286	2.000	1.778	1.600	1.455	1.333	1.237	1.143	1.067
2 x 18	3.600	3.000	2.571	2.250	2.000	1.800	1.636	1.500	1.392	1.286	1.200
2 x 20	4.000	3.333	2.857	2.500	2.222	2.000	1.818	1.667	1.546	1.429	1.333
2 x 22	4.400	3.667	3.143	2.750	2.444	2.200	2.000	1.883	1.701	1.572	1.467
2 x 24	4.800	4.000	3.429	3.000	2.667	2.400	2.182	2.000	1.855	1.714	1.600
3 x 2	0.600	0.500	0.429	0.375	0.333	0.300	0.273	0.250	0.232	0.214	0.200
3 x 4	1.200	1.000	0.857	0.750	0.667	0.600	0.545	0.500	0.464	0.429	0.400
3 x 6	1.800	1.500	1.286	1.125	1.000	0.900	0.818	0.750	0.696	0.643	0.600
3 x 8	2.400	2.000	1.714	1.500	1.333	1.200	1.091	1.000	0.928	0.857	0.800
3 x 10	3.000	2.500	2.143	1.875	1.667	1.500	1.363	1.250	1.160	1.071	1.000
3 x 12	3.600	3.000	2.571	2.250	2.000	1.800	1.636	1.500	1.392	1.286	1.200
3 x 14	4.200	3.500	3.000	2.625	2.333	2.100	1.909	1.750	1.623	1.500	1.400
3 x 16	4.800	4.000	3.429	3.000	2.667	2.400	2.182	2.000	1.855	1.714	1.600
3 x 18	5.400	4.500	3.857	3.375	3.000	2.700	2.455	2.250	2.087	1.929	1.800
3 x 20	6.000	5.000	4.286	3.750	3.333	3.000	2.727	2.500	2.319	2.143	2.000
3 x 22	6.600	5.500	4.714	4.125	3.667	3.300	3.000	2.750	2.551	2.357	2.200
3 x 24	7.200	6.000	5.143	4.500	4.000	3.600	3.273	3.000	2.683	2.571	2.400

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