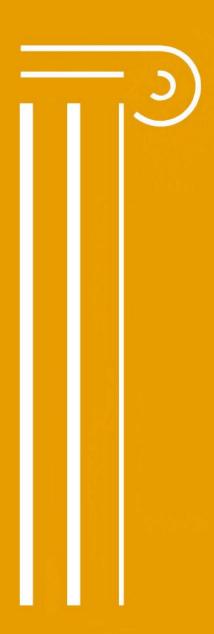
JOURNAL

ROYAL ARCHITECTURALINSTITUTE OF CANADA



A GALLERY overlooking the Library in the National Research Laboratory New Building, Ottawa. Walls and ceilings decorated with WALPAMUR.

Architects: SPROATT & ROLPH, TORONTO



MALPAMUR has won recognition by architects, contractors, industrial and building maintenance experts strictly on the basis of SERVICE. Its economy and adaptability to every type of surface make it unique among paint products. It is equally effective for spray or brush work. Its low cost makes it suitable for every type of building. Walpamur permits moisture remaining in newly plastered walls to escape without injury to the surface. Subsequent decoration can be carried out with Walpamur, gloss or semi-gloss paints. Its soft, eggshell finish assures freedom from glare and eye strain and promotes perfect light diffusion.

THE FAMOUS **FLAT FINISH**

Walpamur

SOLD THROUGH-

CROWN - DIAMOND - PAINT - COMPANY - LIMITED

MONTREAL

TORONTO

HALIFAX

"One-Stop" SERVICE

for building and remodelling! How the Housing Guild assists the architect, the home-owner and the entire building industry



Part 10 in the Story of Johns-Manville



ONCE, it might have been said that there was "nothing new under the sun" —and in the building industry! But today, the Housing

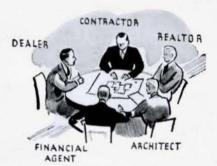
Guild—sponsored by Johns-Manville—has created an entirely new type of building service which benefits the home owner, the architect and contractor... in fact, everybody in the entire building industry.

What is the Housing Guild? Bringing it down to its practical, local function, the Housing Guild is a group of individuals banded together to offer a complete. "one-stop" service on building and remodelling to the home owners of their community. The group is made up of selected and invited Architects, Contractors, Home Financing



Agencies and Realtors, working in co-operation with the local Johns-Manville Building Materials Dealer and using his place of business as the selling headquarters of the entire group.

The group works together in an organized effort to offer their combined services to the local public on a "package" or "complete unit"



basis, whereby labor and materials are priced and sold together by the J-M dealer's salesmen, representing the whole Guild group.

How does the Guild help you, as an architect? Due to the nature of your profession, you cannot go out and sell your services aggressively. But under the Guild plan, the J-M dealer's salesmen are out day after day, creating new building and remodelling jobs and stressing the importance of the architect's service. As a Guild member, many new clients would naturally come to you in this way. And there are numerous other valuable advantages to the architect, as explained in the Johns-Manville literature on the Housing Guild plan.

Why not send for this literature and bring yourself fully up-to-date on the new Housing Guild plan for progress in the building industry?



We sincerely believe that architects everywhere in Canada will agree that this new service — which makes it easier and more attractive for the public to own the homes they want —is a genuinely constructive force.

CANADIAN

JOHNS-MANVILLE

Co., Limited

Mines and Factory at Asbestos, Que.

MONTREAL - TORONTO - WINNIPEG - VANCOUVER

AJ-910



For more than a quarter of a century Red Diamond Scale-Free Pipe has lived up to its reputation of uniform dependability, and every modern facility of plant equipment coupled with constant supervision and research by an exceptionally experienced engineering staff ensures you that it will continue to maintain a standard second to none.

CANADIAN TUBE & STEEL

PRODUCTS LIMITED-MONTREAL







ELECTRIC ARC WELDING

DOMINION WELDBUILT

MEANS

BETTER BUILT

• From the basic design to the "on the job" operation, every Dominion "WELDBUILT" Heavy Pressure Vessel has what it takes to deliver satisfactory service.

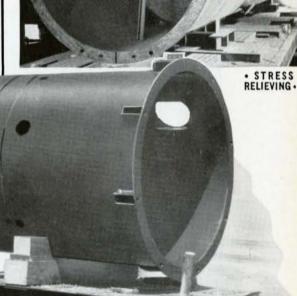
Designed to suit your requirements, efficiently inspected during fabrication, welded to rigid specifications, thorough X-ray examination of welds and finally the use of large stress relieving ovens all assure that high standard of service characteristic of all Dominion Bridge products.

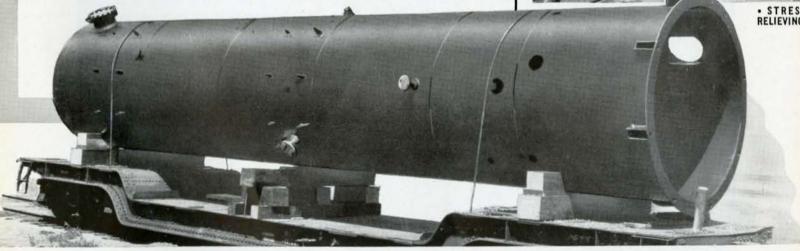
Plants, with trained personnel and modern facilities, are maintained for the fabrication of vessels of all types by electric are welding.

May we have the privilege of submitting designs and quotations for your requirements?



X RAY EXAMINATION





DOMINION BRIDGE COMPANY LIMITED

HEAD OFFICE: LACHINE (MONTREAL), QUE.

Branch Offices and Works: OTTAWA . TORONTO . WINNIPEG . CALGARY . VANCOUVER

Agencies: REGINA . EDMONTON

DOMINION ENGINEERING CO., LTD., MONTREAL, QUE. ROBB ENGINEERING WORKS LTD., AMHERST, N.S. EASTERN CANADA STEEL & IRON WORKS LTD., QUEBEC, QUE.

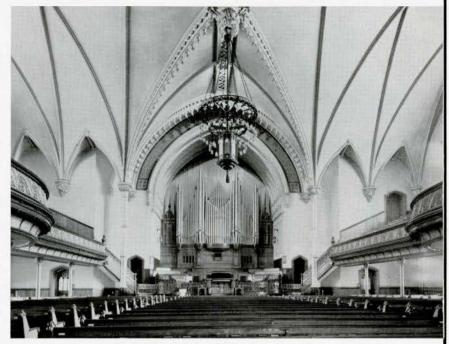
Associate Companies: DOMINION HOIST & SHOVEL CO., LTD., MONTREAL, QUE. McGREGOR-McINTYRE IRON WORKS LTD., TORONTO, ONT. SAULT STRUCTURAL STEEL CO., LTD., SAULT STE. MARIE, ONT. STANDARD IRON WORKS LTD., EDMONTON, ALTA.

MANITOBA BRIDGE & IRON WORKS LTD., WINNIPEG, MAN. MANITOBA ROLLING MILL CO., LTD., WINNIPEG, MAN. RIVERSIDE IRON WORKS LTD. CALGARY, ALTA.

Detail and Dignity

There is a dignity and beauty in this interior which is a tribute to architects and engineers. There is also fine detail in this photograph . . . a tribute to the infinite care and planning of ASN trained photographers.

The photographic needs of architects and engineers are receiving the constant attention of Associated Screen News. Years of experience, modern equipment and skilled cameramen are your assurance that every ASN photograph will bring unusual results.



ST. JAMES UNITED CHURCH, MONTREAL
One of a series of photographs made for Worcester Fire Extinguisher Co.

ASSOCIATED SCREEN NEWS LIMITED

5271 Western Ave., Montreal

100 Adelaide St. W., Toronto

Empress Hotel, Victoria

Design FOR BATHING BEGINS WITH THE FLOOR

It Is Rich, Resilient Armstrong-Stedman Reinforced Rubber Tile



This rubber tile is a cosmopolitan kind of flooring, as much at home in this hard-working bathroom as in the most luxurious dining room. It offers you a practically unlimited palette in planning distinctive floor designs. The many plain, marble, paisley and two-tone effects can be used for the most simple backgrounds or can be combined to form intricate monograms, trade-marks or coat-of-arms. The long-wearing and easy-cleaning qualities of Armstrong-Stedman Reinforced Rubber Tile leave nothing to be desired. The colours run right through, and with occasional washing and waxing, the rich gloss surface remains fresh and bright for years. Write for complete details.

ARMSTRONG CORK & INSULATION COMPANY LIMITED

MONTREAL

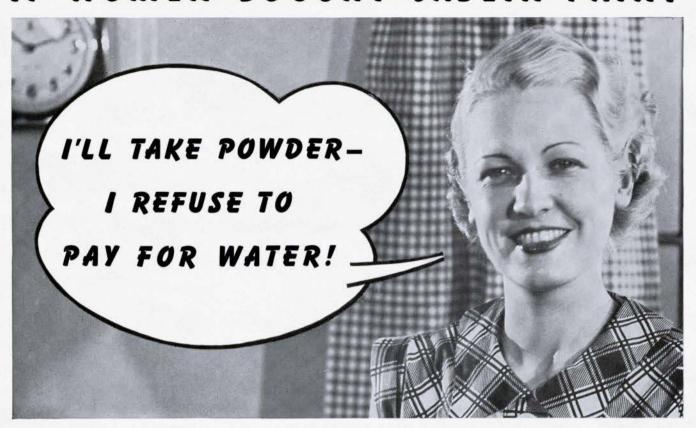
TORONTO



WINNIPEG

QUEBEC

IF WOMEN BOUGHT CASEIN PAINT



Thrifty Housewives Buy Flour – Not Dough Thrifty Paint Users Buy Powder Casein – Not Paste

MRS. HOUSEWIFE: I want to do a little decorating and I understand that casein paint gives an attractive effect at low cost.

MR. PAINT DISTRIBUTOR: Yes—it does. We have it in two forms, paste and powder.

MRS. HOUSEWIFE: What's the difference?

MR. PAINT DISTRIBUTOR: There's no difference as far as the finished product is concerned—both have to be mixed up. Both meet the same Federal Specifications.

MRS. HOUSEWIFE: Then, I suppose paste and powder are the same price?

MR. PAINT DISTRIBUTOR: No—casein paint in powder form costs about 25% less than the paste.

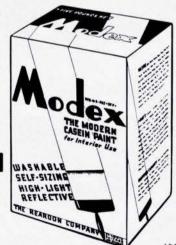
MRS. HOUSEWIFE: Why is that?

MR. PAINT DISTRIBUTOR: Well, the paste contains water and has to be packed in expensive metal containers. The powder is concentrated.

MRS. HOUSEWIFE: I'll take the powder casein paint then. When I bake a cake I buy flour, not dough—I wouldn't think of paying for water!

The Lady is Right!

Anyway you look at it—savings in cost; ease of mixing; fresh paint for every job—powder casein paint is the "buy" and the call is for MODEX.



SEND FOR INTERESTING ILLUSTRATED FOLDER ON MODEX

THE REARDON COMPANY, LIMITED, 146 St. Peters Street, Montreal, Quebec.

Please send me your new illustrated folder on Modex, the concentrated powder casein paint.

NAME		
ADDRESS		
CITY	PROV	

MODEX - The Concentrated Casein Paint in Powder Form

There is a

CRANE

for every decorative scheme



CRANE Concealed Radiators can be installed in a recess with either a METAL PANEL FRONT or PLASTER FRONT AND METAL TOP GRILLE, or they can be set away from the wall in a BOX ENCLOSURE. Convection Radiators are available in two types: (1) the Standard type, which is a free-standing unit, and (2) the Panel type, which can be installed in a recess with or without a grille. Crane Standard Radiators are unrivalled in their class for beauty and efficiency.

heating system.

Complete details at any Crane Branch.

CRANE

Crane Limited; 1170 Beaver Hall Square, Montreal
Branches in 18 cities in Canada and Newfoundland



TRANSFORMING the waste space in the basement into smart, useful rooms is Canada's newest hobby! With the increasing popularity of ping pong and other indoor games, the home recreation room is coming into its own. For an easily-handled, smart and inexpensive job, specify SYLVAPLY for basement finishing work.

SYLVAPLY... The Natural Choice for:



on every genuine SYLVAPLY Panel SYLVAPLY Panels (B.C. Douglas Fir plywood in sizes up to 48" x 96") are the logical material for this work. Strong and rigid, quick and easy to apply, their warm, natural grain and "friendly" texture make a strong appeal to the home lover.

WALLS
CEILINGS
SHEATHING
ROOF DECKS
SUB - FLOORS
BUILT - INS
FURNITURE

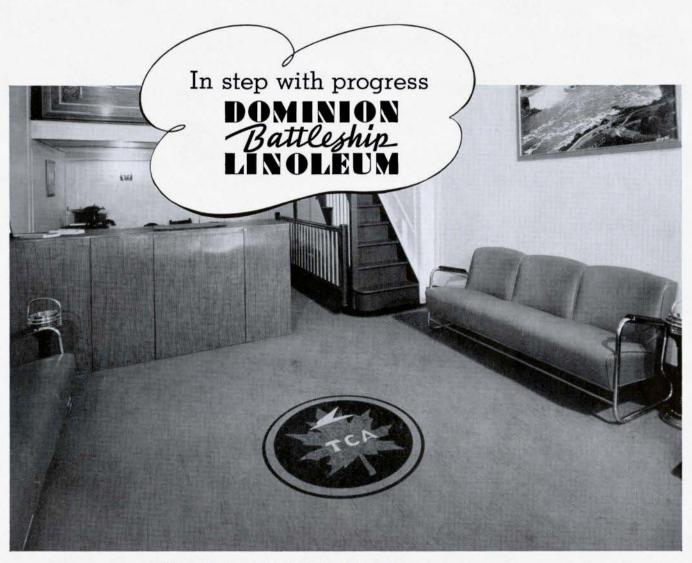
Write for Illustrated Pamphlet BCP-56.

SYLVAPLY

PARELS OF DOUGLAS FIR PLIWOOD

BRITISH COLUMBIA PLYWOODS LIMITED VANCOUVER, CANADA

Ontario Office and Warehouse: 26 Ernest Ave., Toronto—KE. 8545 Quebec Agents: H. R. MacMillan Export (Quebec) Limited, 308 Coristine Building, Montreal



Illustrated above is the City Ticket Office of the Trans-Canada Air Lines situated in the Mount Royal Hotel, Montreal. The floor is Dominion Jaspé Linoleum with motif of Marboleum and Dominion Battleship Linoleum

As chosen for modern offices!

Wise flooring contractors or architects, when planning a modern office building, invariably specify Dominion Battleship Linoleum, because they know it can be relied on year in and year out to give the maximum of service at minimum cost.

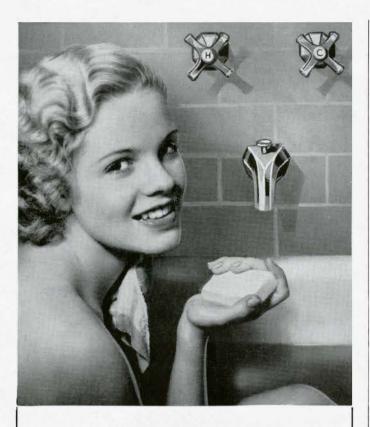
Dominion Battleship Linoleum is permanent and easy to clean. Its resiliency

makes it comfortable underfoot—a pleasure to walk on. And there is no costly upkeep after the initial outlay, as an occasional waxing keeps it shining like new.

And remember, there are many colourful designs and effects to choose from. Write us for booklet on "The Care of Linoleum".



DOMINION OILCLOTH & LINOLEUM COMPANY, LIMITED MONTREAL



Another Reason Why WALLACEBURG Leads

CLOSE INSPECTION

WITH painstaking care our constant policy, it is no wonder that WALLACEBURG Faucets and Showers are leaders in quality. Since our first day of operation, back in 1905, no product has ever left our plant without several searching inspections—in the foundry—in machining—and again before shipment. That's why the name WALLACEBURG means what it does today. Only selected metals are used, and, although they are the best on the market, our own laboratory nevertheless checks them continually to ensure complete uniformity.

DEPENDABILITY FOR 34 YEARS







For Beauty, Permanence and Cleanliness Choose

Frontena Tile

HOW much brighter, better, more attractive, your home can be with tile. Tile is increasingly popular for use in bathrooms, kitchens, vestibules, and for mantels and exteriors.

Frontenac Glazed Wall Tiles, white or colored, and Frontenac Vitrified Floor Tiles are available in a variety of sizes and designs for all purposes. Remember, there is no upkeep cost with tile. A damp cloth rubbed over its surface brings back all the original lustre and beauty after years of service.

Your tiling contractor will readily give you detailed information and provide samples of Frontenac Tile.

FRONTENAC FLOOR & WALL TILE CO.

LIMITED

KINGSTON - - ONTARIO

THERMOLUX Points

Diffuses and Softens light Directs light as required Insulates against heat, cold and sound

Provides "North - Light" for every window

Prevents bleaching of rugs and fabrics

Prevents condensation No need for blinds or

Ideal for use with airconditioning

curtains

Smooth and easily cleaned Obtainable in colours





Operating Room of a Hospital Glazed with Thermolux

THE WONDERFUL NEW GLASS

THERMOLUX is the name of a new form of glass, a glass to transmit light without glare and heavy shadows, a glass to give the effect of "North-light" no matter what the actual exposure may be—north, south, east or west. THERMOLUX diffuses light. Blinds, shades, curtains or other draperies "kill" light and gather dust. THERMOLUX softens the direct glare of sun light without need of blinds and curtains. It is more heat-proof, cold proof and sound proof than ordinary glass. THERMOLUX is made by sealing a layer of spun glass fibres between two sheets of smooth glass. These fibres can be laid vertically, horizontally or obliquely, thus giving direction to the light rays passing through the pane as desired.

The illustration above shows THERMOLUX used to diffuse the sunlight in the operating room of a hospital. It will also revolutionize the lighting of factories, drafting rooms, workshops, stores, warehouses, showrooms, apartment houses and other buildings, especially where skylights are required. It reduces eye-strain of the workers and increases working efficiency.

Beautiful color effects can be produced by using coloured fibres, plain or in harmonious combinations—amber, blue, pink, green, brown, grey or marble mixtures.

Let us send you our DUPLATE Technical Bulletin No. 3, Series B. "THERMOLUX", A New Creation in Glass. It will give you a new slant on lighting technique, opening up a world of new possibilities to architects, engineers, industrialists and others interested in modern building. The attached coupon is for your convenience. Fill in your name and address now and mail it to us today.

THERMOLUX

DUPLATE SAFETY GLASS CO. OF CANADA, LIMITED OSHAWA, CANADA

CANADIAN DISTRIBUTORS

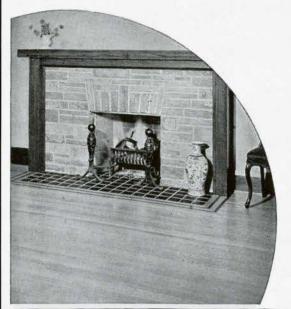
PILKINGTON BROTHERS (CANADA), LIMITED

with depots at

Halifax, Montreal, Toronto, Hamilton, Winnipeg, Calgary, Edmonton and Vancouver.

1 mm 1 m
Income !
13000

Duplate	Safety	Glass	Co. of	Canada,	Limited,	Oshawa,	Canada
Ple in Glass	ase send	your	Bulletin	"THEF	MOLUX	", A New	Creation
Name					***************************************	(04+0444.03)34	
Address					aramina.		



HARDWOOD FLOORS

FOR PERMANENT BEAUTY AND ECONOMY

*SATIN FINISH

The natural loveliness of Satin Finish Hardwood Flooring will carry your architectural theme . . . faultless quality with glowing beauty that increases through time assures pride of ownership.

Special designs, parquet effects, wide plank or the more conservative styles in general use, all will more than measure up to your most rigid specifications . . . a product worthy of your complete confidence. Economy of laying and the small amount of time required to keep them looking their best are other features meriting your consideration.

Interesting and instructive booklet "How to Lay and Care for Hardwood Floors" gladly sent on request.



SATIN FINISH HARDWOOD FLOORING LIMITED

TORONTO JUNCTION 1186 - WESTON, ONTARIO - WESTON 551

*Trade Name "Satin Finish" on every piece.



For Speed, Durability, Economy, specify

STEEL ROOF DECK

THE MODERN FIREPROOF ROOF SHEETING

THIS lightweight Steel Roof Deck permits substantial savings in strength and cost of supporting structure. It is quite suitable for installation on any building . . . gives lifetime durability at low maintenance cost. Steel Roof Deck is fireproof, quickly applied, has good appearance underneath. Easily insulated for efficient functioning under any climatic conditions. Interesting insulation data and complete details available in illustrated catalogue. Write for it today.

We Also Manufacture:

Hope Casements, Steel Sash, Hollow Metal Windows, Door and Frames, Steel Lockers, Steel Shelving, Special Steel Cabinets, Fire Doors, etc. Full details on any or all products available for your files.

"REED'S"

Geo.W.Reed & Co.Ltd.
Montreal

"Metallic" /

Metallic Roofing Co.Ltd.

Western Steel Products

CORPORATION LTD.
REGINA — WINNIPEG — SASKATOON
CALGARY — EDMONTON — VANCOUVER

A STATE OF S



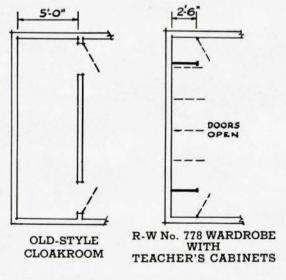
Multiple Operation No. WARDROBES 778

THIS MODERN EQUIPMENT is being used in new schools because it costs nothing and has valuable advantages.

The saving in cubic footage pays for the wardrobes: width of room x height x 2'-6" x cost per cu. ft. = \$ savings. (Usually about \$200).

The advantages are: Complete Supervision Better Appearance

Improved Ventilation Elimination of Pilfering



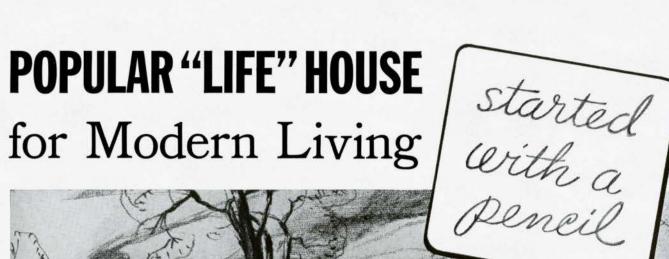
Details

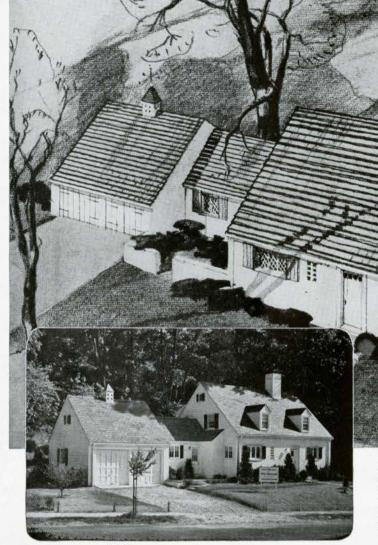
Each door is 2'-6" wide and the depth of the wardrobe is 2'-0". This will accommodate 10 pupils. The doors swing into the wardrobe the full depth so that only 6" of the door projects in front of the wardrobe when the doors are open. All the doors are connected with a bar so that when the door at the extreme left of the wardrobe is opened and closed all of the doors move together. Only one latch or lock is required and this is installed on the left-hand door. When this door is locked, all of the doors are locked. A teacher's wardrobe 2'-0" wide with a single disappearing door can be furnished to be installed at one end of the pupils' wardrobe if desired.

Ask for Catalog or Blueprints

Richards-Wilcox Canadian Co. Itd.

DEPENDABLE "ALL CANADIAN" DOORS AND HARDWARE FOR EVERY PURPOSE





Here is the Royal Barry Wills "House for Modern Living" designed for Life Magazine. This "traditional" home for \$5,000 to \$6,000 incomes has proved highly successful, some fourteen model homes having been built on the Wills design. Thousands of home building and furnishing prospects have streamed through these model houses. In one case, 15,000 in two weeks!



Colloidal Process-Canada Pat. No. 352.959.

EVERY architectural achievement of modern times owes much of its swift efficient completion to pencils!

But in drafting rooms where finest work and greatest speed are attained, Venus Drawing Pencils are the order of the day.

Why? . . . Accurate grading is the answer! Venus experts guard every manufacturing step, right from raw clay and graphite to the finished wooden pencil. Result: Every Venus Drawing Pencil is precisely the same shade as every other Venus of the same degree.

Have you tried Venus Drawing Pencils lately? Have you experienced the thrill of their smooth strong colloidal lead? You should!

VENUS PENCIL COMPANY, LTD., Toronto

JOURNAL

ROYAL ARCHITECTURAL INSTITUTE OF CANADA

Serial No. 170

TORONTO, OCTOBER, 1939

Vol. 16, No. 10

CONTENTS

A Message From	the	Pr	esio	den	t, H	l. L.	Fet	the	rsto	nhc	ıug	h	-	2	-	-	-	-	-	-	-	-	20	216
Children's Camp	s -	-	-	-		-	4,	-	-	-	-	-	-		•	-			-	•	-	21	7 to	221
An Architect Loc	ks	at 1	Trin	ida	d, l	by A	A. /	Mad	ker	nzie	Br	ydo	on	*	1.71	-		7.	٠.	*	- 2	226	and	227
Provincial Page	-	-	-	-	•	-	-	-	-	-	-	*	-	-		-		-	-	-	2	228	anc	229
								D																

PLAIES

The Beth Israel Temple, Melbour	ne,	Αu	stra	lia	-	-	-	(4)	~	•		-	.+1	-	-		-	-	222
Store at Lethbridge, Alberta -	-	-	÷		-	-	-		-	:=::		-	: * :	-	-	2. 7 .3	-		223
Store Front at Toronto, Ontario -	*	-	-	•	0	-	*		-			-	-		-		-		223
The "Sandro Mussolini" Summer	Cold	ony	for	De	lico	ite (Chi	ldre	en c	at C	ese	nat	ico,	lto	ıly	2	24	anc	225
THE INSTITUTE DOES NOT HOLD ITS	SELF	RES	POI	NSIB	LE	FOR	R TI	HE (OPI	NIO	NS	EXP	RES	SED	BY	cc	THC	RIBL	JTORS

	DFFICERS
President H. L. FETHERSTONHAUGH Second Vice-President S. P. DUMARESQ Honorary Treasurer BURWELL R. COC	Honorary Secretary ALCIDE CHAUSSE (F)
	COUNCIL

R. P. BLAKEY J. MARTLAND

Alberta Association of Architects

S. M. EVELEIGH WILLIAM FREDK. GARDINER GEORGE NAIRNE Architectural Institute of British Columbia

R. C. HAM PROF. M. S. OSBORNE (F) E. PRAIN Manitoba Association of Architects J. L. HEANS H. C. MOTT (F) **Architects Association** of New Brunswick

S. P. DUMARESQ (F) L. R. FAIRN (F) Nova Scotia Association of Architects W. J. ABRA L. GORDON BRIDGMAN

MURRAY BROWN (F)
BURWELL R. COON
ALLAN GEORGE
ERIC W. HALDENBY (F)
R. E. McDONNELL MACKENZIE WATERS (F) Ontario Association of Architects P. C. AMOS ALCIDE CHAUSSE (F) ERNEST CORMIER (F) H. L. FETHERSTONHAUGH (F) GORDON McLEOD PITTS (F)
PHILIP J. TURNER Province of Quebec

Association of Architects

F. J. MARTIN STAN. E. STOREY Saskatchewan Association of Architects

EDITORIAL BOARD

MACKENZIE WATERS (F), Chairman LESLIE R. FAIRN (F), Wolfville GORDON S. ADAMSON, Toronto GLADSTONE EVANS, Toronto RICHARD A. FISHER, Toronto

H. GORDON HUGHES, Ottawa RICHARD A. BOLTON, Montreal SYLVIO BRASSARD, Quebec HENRI S. LABELLE, (F), Montreal ROBT. F. DUKE, Saskatoon

ERIC R. ARTHUR, EDITOR

Editorial and Advertising Offices

CECIL S. BURGESS (F), Edmonton R. A. D. BERWICK, Vancouver DAVID COLVILLE, Vancouver MILTON S. OSBORNE (F), Winnipeg

H. CLAIRE MOTT (F), St. John

- - - - - - - 57 Queen Street West, Toronto

J. F. SULLIVAN, PUBLISHER

SUBSCRIPTION RATES

Canada and Newfoundland—Three Dollars per year. Great Britain, British Possessions, United States and Mexico—Five Dollars per year. All Other Countries—Six Dollars per year. Single Copies—Canada 50 Cents; Other Countries 75 Cents.

A MESSAGE FROM THE PRESIDENT

A MONTH has passed since Canada declared War—and gradually through a maze of contradictory rumours the extent and pattern of our participation in this struggle is becoming clear.

The fact that there is no conscription for national service has placed a grave responsibility on us as individuals, and as members of a Royal Institute to decide how we can be of the greatest use to our country at this time.

Immediately following the declaration of war, there came to us many inquiries from individuals and associations. The individual request was for advice — whether to enlist at once — or to postpone it until further training would fit the architect for some position of greater responsibility in the active forces. May I take this opportunity to state my conviction that architects by their professional training are particularly suited for certain branches of the service, and in this war a logical use of trained personnel is more essential than ever before. May I also say that the registration form which was sent to all architects was to enable each Provincial Association to have on record the particular qualifications of its members and to be in a position to give this information should a request be made for architectural services of any nature. From one association came a request that your Institute should acquaint the Government of our desire to serve—and our ability to do so as architects. In this connexion it is clear that there is an extensive programme of building for war purposes. It is equally evident that there is an urgent demand amongst all thoughtful Canadians, that this work be carried out quickly, efficiently and as economically as the present condition of emergency will permit. The responsibility for such results is one for which the whole construction industry, architects, engineers, contractors and labour, is organized and trained.

No time has been lost in advising the government of our desire to be of service and to offer whole hearted co-operation in these questions with which your Institute is particularly connected. Twice during the month the executive committee of the National Construction Council of which your President is a member, has been to Ottawa and discussed possible fields of co-operation with the Ministers of Finance, Defence, Transportation and Supplies. Our reception has been very cordial, and an opportunity was presented to emphasize the fact, that the associations represented were not only available to the government for consultation — but within these associations were all these services, both professional and constructional to meet any demands for emergency buildings which might arise throughout this country.

It must be realized that there are Governmental Departments organized to look after all peace time requirements, but in the unusual situation which has arisen, our civilian organizations can co-operate with departments, and undertake the erection of those war time buildings, which come into the sphere of the architect and with which many members have had previous experience. It is too early to state what the results of this offer will be, but its sincerity cannot be questioned, and in the practical form in which it is accepted there is every assurance that the co-operation of all can be depended on.

We doubt whether any profession in Canada has so many members as officers in the armed forces or so many members, who for the last 20 years, have given their time and effort to the building up of the Canadian Militia. It is the obvious duty of those who remain to safeguard the tradition of public service of a great profession, and to show the Government that where building is to be done it should, in the national interest, be done by architects. The architects of Canada are standing by for instructions.

In this period of national effort—service to the nation should be our aim—and the measure of success we achieve—may well decide our future opportunities, and the prestige of the Royal Architectural Institute of Canada for many years.

CHILDREN'S CAMPS

The following article on Children's Camps is taken from the R. I. B. A. "Journal" of August 14, 1939. It is not suggested that similar provisions will ever be necessary in Canada, but the layout of buildings and their construction should be of interest to architects who may be called upon to design buildings of the hutment type. We have written the R. I. B. A. for further details of military buildings and will continue to show plans and details as they are forwarded to us. If any member has any suggestion as to other methods by which the "Journal" may be of use to the profession and the country, the Editorial Board will be pleased to consider them.—Editor.

N 16 January this year *The Times* gave its first mention in a leader to the question of camps for peace and war. On 9 February it followed with "On with the Camps", and on 14 February with "Camps at Last". The Camps Bill was passed on 25 May; now fourteen camps are in course of erection, another sixteen are in various stages of preparation, and by the end of August the first of them will be completed.

The Purpose of the Camps

In time of war the camps are in no way intended to provide an alternative to billeting, and the present Government billeting proposals remain as they were; they are being built purely as a supplement to the accommodation available for evacuating children or other members of the population from the more vulnerable areas. It is intended that the camps should permit of rapid expansion under emergency conditions, and that they should be capable of accommodating at least double the number that would normally use them in peace time, and also that with their water supply, lighting, sanitation and cooking facilities they should form a nucleus around which other buildings could be grouped if necessary.

In peace time the camps are to be used mainly to provide school camps for children. Local education authorities already have powers to provide camps for this purpose or to make use of existing ones, but so far relatively little has been done in this direction. There are at present twenty permanent camps for school-children in England and Wales provided and run by local education authorities, between them accommodating about 1,400 children, used partly be weakly and undernourished children from the poorer homes at no cost to their parents, and partly by groups of normal children who spend a week or two at the camps as a change from their town surroundings. The parents of the latter type generally make some contribution, according to their means, towards the cost of food. There are also sixteen school camps in the North of England and in South Wales, provided with the aid of grants from the Commissioner for the Special Areas, between them giving accommodation for about 4,200 children, drawn largely from unemployed families, or for children whose health needs the benefit of a period of camp life. In Scotland, education authorities have only had power to provide school camps since 1936, and none has yet been built, but last year seven education authorities provided fifty-nine children's holiday camps, and 9,000 children have already passed through them with considerable benefit to their health.

Thus the practice of sending school children to camps is past the experimental stage, though it may not yet be very extensive. The camps resulting from the new Act are a good step in advance, and if the usual practice is followed and children are sent to them for a fortnight at a time they will be capable of accommodating about 200,000 children every six months; and since they are to be equipped with at least a

minimum system of heating there seems no reason why they should not be used for a large part of the year.

It is also intended that in peace time the camps should be used during the holidays by voluntary organisations for juveniles between the elementary school age of 14 to 19.

Each camp is planned to accommodate 350 children, either boys or girls, with additional accommodation for the staff. It is considered that the minimum age of children using the camps during peace time will be about ten, but since the camps are to be used as evacuation camps in time of war, and may be used by adults in the holidays, the arrangements provide that the camps could conveniently accommodate adults if necessary. During their use as school camps in peace time it is intended that children should go to them in charge of their teachers and do their lessons in the country instead of in the towns. The schooling would no doubt be much modified, and would largely consist of outdoor activities, such as nature study.

The selection of sites presented some difficulty, as the Corporation were required to place the camps from 30 to 35 miles from evacuable towns, which naturally limited their choice of locality, The essential requirements for a site were piped water supply and main electric light and power, and, where no public sewer was available, that the ground should lend itself to individual sewage works.

The sites vary between 18 and 50 acres, and average 25 to 30 acres. This should allow the children plenty of play space, and avoid trespassing on adjacent land—particularly important in rural camps where there is no beach for the children to use for playing. The cost of roads on the site for the delivery of goods and fuel is an important item in camp planning, and in general these are kept reasonably short, and as much use as possible is made of light paths.

Owing to the timber construction of the buildings they have been separated from one another on the site as much as possible in order to reduce the fire hazard to the minimum.

There are nine standard buildings for each camp, all of one storey:—

Assembly Hall, with stage and changing rooms, and the camp manager's office approached from a covered way linking it to the main assembly hall block.

Dining Hall and Boiler House, with teachers' dining room and tuck shop, kitchen and stores. The kitchen has a solid concrete floor on rubble, and the boiler house is constructed with brick walls.

Dormitory Block, with 58 beds in two tiers. The spacing of 3 feet 6 inches clear between each pair of beds was fixed as a minimum by the Ministry of Health after consultation with medical authorities. The beds themselves are of iron, to special design. Further accommodation comprises two single bedrooms for staff supervision, a coatroom, boots and luggage room, and a store and chemical closet approached through an open porch.

Classroom Block, with four classrooms opening on to a terrace, planned in pairs with folding doors between them. Each classroom is intended to accommodate about 36 children. These are experimental, and are only provided in some of the camps, though in all camps provision is made for adding them later.

Hospital, with one six-bed ward and one single-bed ward, a dispensary, bathroom, lavatories, kitchen, and matron's living quarters.

Lavatory Blocks for boys and girls. The girls' type comprises lavatories, dressing-room, bath and shower, latrine, drying room and store. The boys' type is similar, but provides urinals in the latrine, has no bathroom, and in place of the store accommodates lavatories for men and women staff.

Staff Quarters for men and women. Two six-bed dormitories, with common rooms and lavatories.

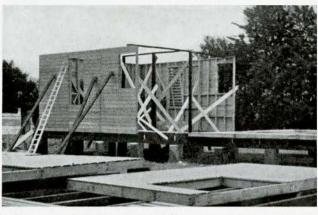
Camp Manager's and Headmaster's Houses, semi-detached, and comprising living room, bedroom, bath and kitchen. Sound-deafening is provided between the two houses.

Construction

Timber was selected as the method of construction because, apart from its good appearance and low cost, it was felt desirable to get the work of prefabrication started while the sites were being obtained, so as to complete erection at the earliest possible moment. Also, there were many firms in the country well equipped to manufacture standardised timber sections, and to start on their production immediately.

The buildings throughout are based on a 6-ft. prefabricated timber wall unit, 10 ft. high from plate to plate in the majority of the buildings, and 8 ft. high in the case of the hospital, staff quarters, lavatories and camp manager's and headmaster's house. These units are formed of 4" x 2" studs, diagonally braced, faced with 7" x 1" rebated cedar weatherboarding, and are brought on to the site complete with window and door frames. For camps in Scotland or other particularly rainy or exposed sites it is intended to provide a layer of building paper under the weatherboarding, but this has not been considered necessary for most of the schemes.

The foundations are of concrete posts cast *in situ*, 12 ins. square and 3 ft. deep, spaced at 6-ft. centres along the length of the buildings, and in most cases at 9-ft. centres across the buildings. The site itself is covered with 2 ins. of ashes and a tar surfacing after removing the top spit.

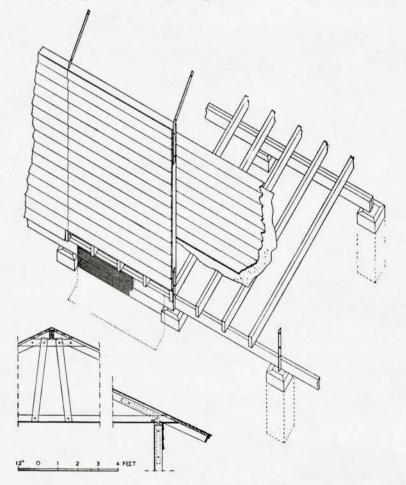


A photograph showing some of the timber wall sections erected at the camp at Horsleys Green, Bucks. Other wall sections can be seen in the foreground.

Two 6" x 2" bearers bolted together span from post to post on the longitudinal axis of the buildings; under the outside walls the inner bearer is in 18-ft. lengths, and the outer in 6-ft. lengths to allow a 2" x 3/8" wrought-iron strap cast in the foundations to pass up between the bearers to the joists and wall sections.

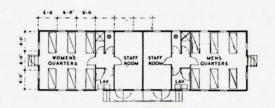
At 18-in. centres 6" x 2" floor joists span from bearer to bearer, and are covered with an untearable building paper and $\frac{13}{6}$ -in. T. & G. flooring. The floors are not in prefabricated sections. All woodwork under the floors is dipped with creosote or other timber preservative. At 6-ft. centres the floor joists are bolted to the wrought-iron ties to the foundations.

The prefabricated wall sections rest directly on the floor joists, the wrought-iron ties passing up about 1 ft. between

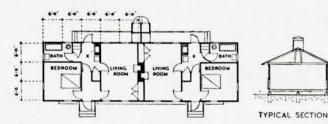


Axonometric, showing the method of erection of the floors and wall sections. The bearers under the outside walls are cut in two lengths, the inner bearers being 12 feet long, and the outer ones 6 feet long in order to fit between wrought iron straps cast into the foundations.

A section through the eaves and ridge of a standard roof spanning 18 feet.







CAMP MANAGER'S AND HEADMASTER'S HOUSES

adjacent sections. At the head of the wall sections corresponding wrought-iron knee braces are let in between the sections to provide a fixing to the rafters and cross-bracing to the whole structure. Adjacent sections are secured together and to each tie and knee-brace with bolts. The weatherboarding laps about 1 in. over the stud of the adjoining section, and no cover fillets have been considered necessary. One additional course of weatherboarding is fixed on the site to cover the ends of the floor joists.

The rafters are brought on to the site in prefabricated sections, each section being complete from eaves to ridge, 6 ft. wide, and formed of four 4" x 2" rafters battened with 2" x 1" battens at 5-in. centres. These sections are bolted together through the wrought-iron knee braces at the head of the wall sections, and to a 4" x 2" collar beneath the ridge plates. 4" x 2" ceiling joists are fixed on the site, and 4" x 1" ties are bolted to the collars and joists. The roofs are covered with cedar shingles. At the gable ends the framing and weather-boarding above the head of the prefabricated wall sections is built up on the site.

At all external corners the wall sections are bolted together with wrought-iron angle cleats at the head, centre and sill of the framing, and the weatherboarding finishes up against vertical wood fillets.

Internally most partitions are 3" x 2" stud built up on the site, and the general internal finish throughout is a 3/8-in. plasterboard on the walls and a 1/4-in. plasterboard on the ceilings. Walls and ceilings are papered and distempered.

In the lavatory blocks the walls are faced with an asbestos cement sheet with a smooth polished surface.

To prevent vermin from getting under the structure, a 5/8-in. wire mesh is fixed between the foundation posts on the perimeter of the buildings, secured to the bearers and taken down about 1 ft. into the ground. Where the buildings are on a sloping site 6" x 3/4" sawn fir boards are fixed between the foundation posts, nailed to vertical battens cast in the posts. The wire mesh is fixed to the bottom boards, and a 5/8-in. ventilation space is left between the top boards and the underside of the bearers.

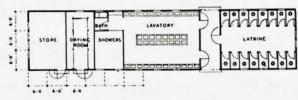
All Western red cedar is left untreated. Window frames, doors, posts and rails to loggias, etc., eaves soffits and window shutters are painted.

Heating, Ventilation and Sanitation

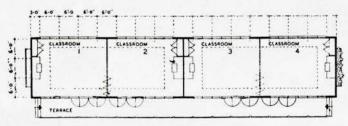
The dining-room block and the assembly hall have louvre ventilators on the roof ridges, and all other blocks have circular louvre ventilators to the roof space in the gable ends.

All heating is from the central boiler house with underground mains. The huts, with the exception of the staff quarters, which are fitted with radiators, are heated with single pipe ring mains at skirting level. The main function of this heating is to keep the buildings dry in winter.

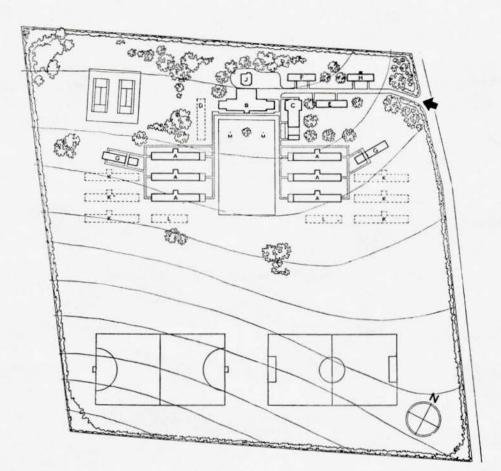
Water sanitation is used in all camps, either connected to main drainage or to a private disposal plant.



GIRLS' LAVATORY BLOCK



CLASSROOM BLOCK

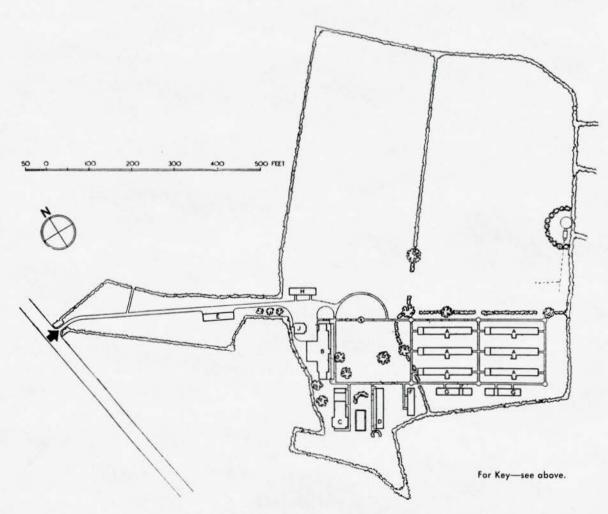


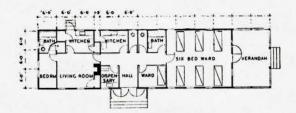
TWO SITES LAID OUT BY SIR JOHN BURNET, TAIT & LORNE

Left: Laverstoke, near Overton, Hant. Facing page: Horsleys Green, Bucks.

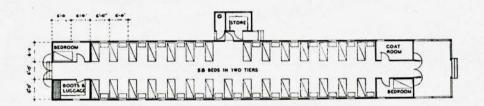
KEY:

- A. Dormitories.
- B. Dining Hall and Kitchen.
- C. Assembly Hall.
- D. Classrooms.
- E. Hospital.
- F. Staff Quarters.
- G. Lavatories.
- H. House for Camp Manager and Headmaster.
- J. Boiler House and Fuel Store.
- K. Dormitories—future.
- L. Lavatories—future.
- M. Flagstaff.

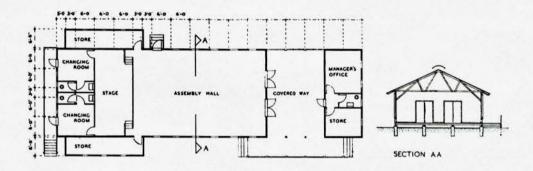




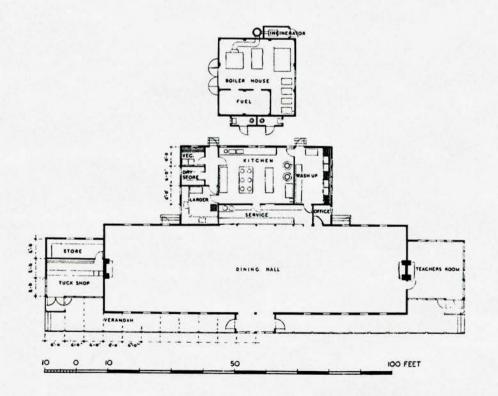
HOSPITAL WITH MATRON'S LIVING QUARTERS



DORMITORY BLOCK

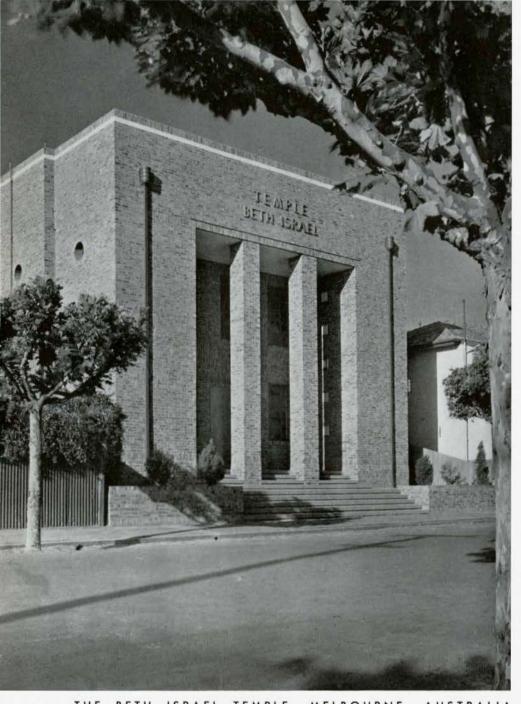


ASSEMBLY HALL, WITH CAMP MANAGER'S OFFICE.



BOILER HOUSE AND FUEL STORE. THIS BUILDING IS IN BRICK.

DINING HALL AND KITCHEN. THE TEACHERS' ROOM IS USED FOR THE SERVICE OF MEALS.



THE BETH ISRAEL TEMPLE, MELBOURNE, AUSTRALIA

J. PLOTTEL, ARCHITECT

TEMPLE INTERIOR





STORE AT LETHBRIDGE, ALBERTA
MEECH AND MEECH, ARCHITECTS



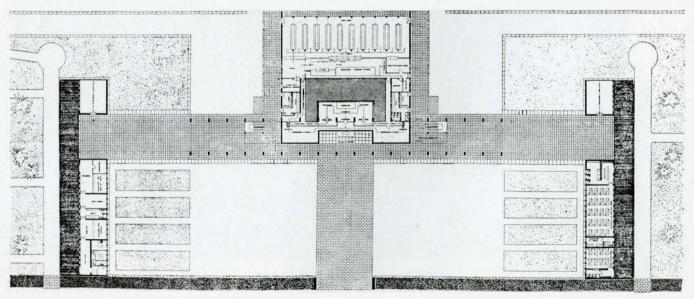
STORE FRONT OF LAKE SIMCOE ICE AND FUEL LIMITED, TORONTO, ONT.

ALLWARD AND GOUINLOCK, ARCHITECTS

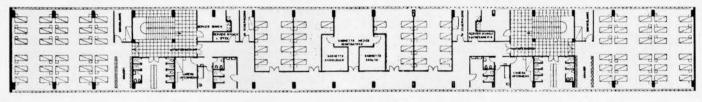


THE "SANDRO MUSSOLINI" SUMMER COLONY FOR DELICATE CHILDREN AT CESENATICO, ITALY

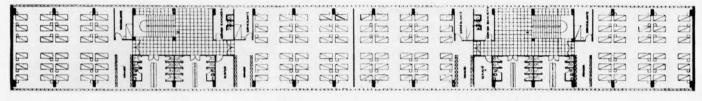
GIUSEPPE VACCARO, ARCHITECT



FIRST FLOOR PLAN



FOURTH FLOOR PLAN



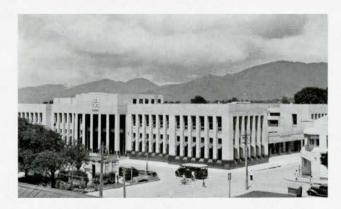
SECOND AND THIRD FLOOR PLAN

WALL OF THE ISOLATION PAVILION AND THE TOWER OF THE ELECTRICAL TRANSFORMER



AN ARCHITECT LOOKS AT TRINIDAD

By A. MACKENZIE BRYDON



TREASURY AND POST OFFICE BUILDING, PORT OF SPAIN

T does not often happen that a Canadian architect has the opportunity of doing work in the tropics, and my experiences may be of interest. My work was in Port of Spain, the capital of Trinidad which we reached in the splendidly equipped *Lady Hawkins* from Boston.

Trinidad, or as the Caribs called it Iere, "The land of the Humming Bird", is the most southerly of the West Indian Islands, being only ten and a half degrees from the Equator. The first view of the island was through a low hanging haze as we emerged into the Gulf of Paria from the Boca de Huevos, one of the narrow straits or Bocas through which ships pass from the Carribean Sea, to the anchorage off the "Port".

Port of Spain being first built as a port for sailing ships, is in a sheltered bay facing south-west, and, as it gets the full strength of the sun, is very warm. The cooling breezes from the Atlantic are diverted from the city by the mountains to the north and east.

While the climate is warm it is not unpleasantly so, and the cool evenings make sleeping quite comfortable. Heavy rains are of almost daily occurence except during three or four months starting about December.

The temperature varies only a few degrees during the whole year, being slightly cooler in the dry season.

These climatic conditions have a controlling influence on the architecture of the island as it is necessary that protection from the rains be considered as well as shade from the sunlight. The sun is not so actinic as it is in Canada during the summer months and it is quite possible to go round bareheaded without danger.

Mosquitoes and flies are not very troublesome; but bats are at times a nuisance and I have dined with them zooming over the table. In some parts of the island a small vampire bat is a grave danger as his bite produces rabies. Windows are not usually screened in Trinidad and I found it better to sleep under a net.

The older houses are mostly of weird design with frilly "jig-saw" ornament at gables and eaves. Even the houses of the well-to-do are indifferently planned and poorly constructed according to northern standards.

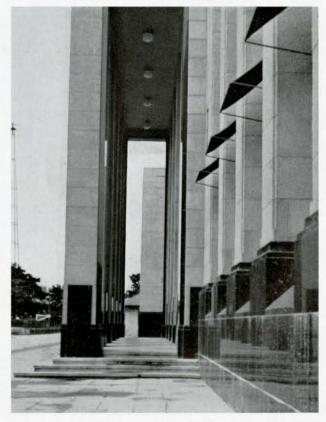
Tropical window construction is a product of the climate. The ordinary box frame is largely used, but it is often flanked or surrounded by Venetian slatting which acts as permanent ventilation. Sections of these louvres can be pushed out at the foot with a short pole for increased airiness and are named Demeraras after their place of origin.

Sanitary conditions are poor and even in large houses the bathroom equipment is often of inferior quality. Only in a few houses did I find fixtures that could be called modern and these were, in many cases, of cheap quality. Many of the baths in the older houses are made of concrete sometimes tiled inside and out. In the newer buildings, however, there is a decided improvement in plumbing equipment. Planning and design are also improving.

As an example of conditions in San Fernando, the second largest town, I saw a septic tank on the ground floor of a building, spilling into the street gutter; there was no distribution bed. It is well that the heavy rains keep the streets and gutters clean. Bath-water often spills into an open gutter at the side of the house and flows some distance before entering the drain. All rain-water is lead to the street gutters and during a heavy shower flooding is usual.

There is evidence that at one time the buildings in the island had considerable architectural merit; but unfortunately taste seems to have departed. Yet one finds interesting bits of wrought iron, simple mouldings and other features which tell clearly of past beauty. Stone work has been painted and slate and tile roofs have been stripped and re-covered with corrugated galvanized iron to save the trouble of repairing. These iron roofs have been in turn neglected, adding to the shoddy appearance of many buildings. I have seen piles of good old tiles lying discarded and broken on the ground.

The houses of the poorer people are crowded together in narrow streets and the district of "Piccadilly" in Port of Spain is an outstanding example of bad housing. I understand, however, that the city is taking steps to improve living conditions.



MAIN PORTICO, TREASURY AND POST OFFICE BUILDING, PORT OF SPAIN

A usual method of building the better class of moderate sized house is to erect a frame, morticed, tennoned and pinned together in good old English style. The frame is then nogged with concrete and the whole plastered over. The roof is formed by widely-spaced rafters, with ribbons to carry the sheets of iron. "Rain on the Roof" is quite Wagnerian in Trinidad.

The workmen are quite clever in the use of cement and make good gallery (verandah) balustrades and handrails of concrete. This is really necessary as termites are an everpresent pest. Plastering is done mostly with bricklayer's trowels and, when finished, looks like it.

The largest and most important building to be built recently in Port of Spain is the new Treasury and Post Office Building for the Colony of Trinidad and Tobago.

The architect was Mr. H. G. W. Brinsley, M.C., F.R.I.B.A., F.S.I. The general construction work was carried out by the Public Works Department with their own labour. I had the interesting experience of acting as assistant architect on this building and I had to take over full control during Mr. Brinsley's six months' absence in England. As I had not competent assistance during this time, the work was somewhat arduous. The engineering was done by the P. W. D. and the steel frame was fabricated in Glasgow, Scotland. The building was finished with cast stone which was made in sheds close to the building. The making of this stonework was an interesting experiment. Steel moulds were made of the required dimensions and the concrete cast in them face down. While the three inch thick slabs were still green, East Indian workmen with sharp steel points picked over the surface, giving a crandled effect which was very satisfactory. The Belgian granite base was made to our details in England and was beautifully executed. The floor slabs were cast on high rib metal. The steel frame members are bolted together since there are no riveters on the island.

The building has a U plan with the open side to the east so that cool breezes from that direction can penetrate through all parts of the building. The Sorting Office and P. W. public space occupy the easterly part between the side wings, and are one storey high, the balance of the space forms a courtyard for the mail vans. The main vault is enclosed with burglar-proof steel grilles and is patrolled by a sentry with fixed bayonet. Trinidad seems to have a fixed bayonet complex.

The building provides accommodation for the Treasury and Postmaster General's Departments, Inland Revenue, Letter, and Parcels Post Offices.

A feature which is not to be found in our buildings are the "Breakfast Rooms".



OLD FRENCH BUILDING, PORT OF SPAIN



OLD SPANISH BUILDING, SAN FERNANDO

The first meal of the day in the West Indies is "Early Morning Tea", at about seven o'clock, and at noon an hour is taken off work to eat "breakfast". My own E. M. T. was served in my room at seven sharp by the coloured maid. The service was very punctual and efficient, but once in a while I had to call, "Frances, you have forgotten the salt." Frances would bring it in a hurry, showing a glistening dental crescent.

The "breakfasts" are carried to offices in granite-ware containers nested together in a metal frame with a handle on top. In the Treasury Building these containers are taken to the breakfast rooms which are used for this noonday repast. There is no "Siesta" in Trinidad. Working hours are as long, or longer, than in the North and no one should go to the tropics to work, under the impression that he is going to have an easy time. Work is even more difficult there, owing to lack of modern equipment, and lack of experience on the part of contractors and workmen.

There are not many buildings of the Spanish period. One at San Fernando, which is shown in the accompanying photograph, remains unaltered except from the ravages of time. The piers, caps and arches are of cut brick and the casement windows are of Mora or some other native wood. This building is used as a dwelling at present, but what its history is, I was unable to discover.

The island has many interesting kinds of wood. Mahogany is being grown to some extent, and Mora, a tough coarse wood of great strength, is plentiful. Forest Cedar is much used for doors and trim and makes a good job, although it is rather soft. Experiments in Teak growing are being carried on; but as yet the trees are small and many years must elapse before the lumber can be cut. Other woods are Balata, Crapo, Cypre, Purple Heart, and many others, strange to people from the North. Many of these woods make excellent furniture and are most satisfactory. It would be interesting to see some of these woods used in Canada if they could be obtained at a reasonable cost.

Trinidad has a most interesting population. East Indians form about one-third of the whole and Hindu Temples and Mosques are found throughout the island. Zebus and water buffalo can be seen in rural districts grazing or working in harness. Men in the habit of Ghandi and women with saris, wearing nose and ear ornaments, rubbed shoulders with me in the streets.

Many races are represented in Port of Spain; but the bulk of the population is negro or coloured. The white population is small.

I found the life most interesting and my contact with people of many races a worthwhile experience.

PROVINCIAL PAGE

MANITOBA

I have been absent from this Provincial Page for several months. I hope I have been missed. The monthly report from Manitoba has been well taken care of by my fellow-architects so the Province has not been missing entirely from this page.

I returned a few days ago from an extended visit to the United States. For the first time I had an opportunity to visit New Orleans and the impression of being in a French city is so very strong that one is almost surprised to find the English language spoken on the streets. It is much like Quebec City, more extensive in size, more southern in its architecture, more colourful because of the brilliant foliage of its gardens and the bright sunshine that paints the stucco buildings in rich, warm tones. There is a freer use of iron work in New Orleans than in any American city I have ever visited, and the designs of balconies and grilles and fences are varied and fascinating. There is imagination in the colour schemes, in the dark brown of the iron work against cream stucco, black against gray, the green against pink or lavender. They are all tied together harmoniously by the general unity of their architectural style and the horizontal lines of their belt courses and windows.

While the streets offer interesting colour patterns, it is the courtyards that glow with the richly contrasting tones that Nature uses with profusion and that man uses only with restraint. A curious mixture of Spanish, French and Italian, these outdoor living-rooms present certain characteristics of them all. Deep balconies, screened with wooden or iron grilles, are supported by the low, wide arches so common in Spain and the Spanish Colonial work in Mexico. The casement windows with their heavy shutters are much like those of the cities of the south of France, and the widely projecting cornices that cast a deep shadow are very reminiscent of Italy.

The old French section, like the older section of the most of our American cities, has been subject to the changes that come about with a mechanical age. Many buildings have been torn down to make way for faster traffic or to provide parking lots and filling-stations. With a mixed feeling of pride in the charm of the old buildings and the knowledge that the American people pay well for atmosphere, New Orleans has at long last passed legislation in an attempt to preserve what is left. No building can be changed on the exterior without the consent of an architectural commission appointed for that purpose, and there are regulations governing the placing of signs and billboards on all buildings and streets in the French Quarter. They are seriously trying in New Orleans to preserve the charm of the old without in any way interfering with the desire for modern living conditions, and the results seem to be reasonably successful.

It is a fascinating journey from New Orleans to Baton Rouge and return along the levies. There is a fast highway built through the swamps where you see nothing but cypress and water-oaks, but the levee road takes you past fine plantation houses, many of them unoccupied or fallen into decay through the changes in the economic structure of that country. They mark the leisurely, baronial life of a civilisation built upon slave labour, with thousands of acres of land under cultivation of cotton and sugar-cane. The huge plantation houses with their colonnades on all four sides, the rich plaster ornamentation of the ballrooms, the dining rooms and halls, and the groups of smaller buildings for the superintendents and the workers remind one very much of the feudal castles

of the middle ages. It is a sad sight indeed to see such buildings as "Uncle Sam" and "Belle Grove" falling into decay, but they stand today only as a reminder of a gone and almost forgotten day.

- Milton S. Osborne.

ONTARIO

We are now entering upon the melancholy period of a melancholy year. Alarms, respites and more alarms have given place to the dreaded certainty; many architects are already on military duty, others preparing for it, offices are being closed and the green glades where the aesthetes once held court are abandoned to the Simon Pure functionalists. Surely Der Fuehrer's crime sheet is now complete! If not, let us hasten to add that the home fires are being kept burning in Toronto by a stop-order on the Bank of Montreal building and reduction of the staff on the Postal Terminal work to a mere skeleton.

Nothing daunted by all this, however, the University of Toronto has included in this year's extension work a weekly class in Architectural Appreciation. The lecturer will be Richard A. Fisher, one of our confrères on the Editorial Board. We feel certain that if he fails to awaken an intelligent interest in the subject it will not be his fault. We do not know whether he has made any special study of subterranean construction, but we note that he has included in his programme a section on "the city and dwelling unit of the future"!

Congratulations are in order to Mr. Thomas Edward Aikenhead, who, on October 1st, completed sixty-five years with Aikenhead Hardware Limited, of Toronto. We trust that whether in presiding over the affairs of his firm, or in chasing black bass or speckled trout, he will have many pleasant years yet before him.

Congratulations also to Mr. John E. Lea, of the Canadian Ornamental Iron Company, Toronto, who boldly plunged into the still uncharted waters of matrimony on September 30th. Among the arts, architecture is almost unique in its dependence upon the co-operation of skilled craftsmen—and craftsmanship in ornamental metal work is a tradition of the Lea family. We cannot wish Mr. Lea anything better than a measure of the esteem which his father, "E. J.", enjoys among those privileged to know him.

- Gladstone Evans.

QUEBEC

Owing to a change in the ownership of the property, the Architects' Association has had at a short notice to vacate their excellent office accommodation at 627 Dorchester Street West. It will be difficult to find other premises so convenient, or as central as those on the top floor of the old Builders' Temple Building; these rooms have been the headquarters of the P. Q. A. A. since 1930.

Certainly the large meeting hall, 48 feet long by 28 feet high, was an ideal place for exhibitions and meetings. Shortly after the premises were leased, this hall was in 1933, redecorated and remodelled under the direction of Mr. W. S. Maxwell, who also designed the special furniture and electric light fittings. The cost of this work was in large part met by private subscription.

It is interesting, as a matter of record, to know that the P. Q. A. A., previous to 1930, had temporary offices in the Castle Building at 410 Stanley Street. In 1922-1928, the offices were at 570 Union Avenue, and previous to that time, and for a number of years, the Association occupied the top floor at 367 Beaver Hall Square. The first offices of the Association were situated at 186 St. James Street, and the first Annual Meeting of the P. Q. A. A. as incorporated, was held in the Parliament Buildings, Quebec, on September 10th, 1891.

As the Council have now to find other offices, a movement is on foot to purchase a property, and they have under consideration a survey of one or two buildings in the central part of the city. Before any definite action is taken regarding purchase or otherwise, it is hoped that a general meeting of the members will be called, when the project may be explained, and an opportunity given to all the members to thoroughly discuss the matter. Though the Association have a reserve fund, and are in a fairly strong financial position, it is very much to be questioned whether it is wise, in a war crisis, to take on the additional heavy expense that is now being contemplated.

As a natural consequence of the war, many meetings and conferences are being cancelled, and one wonders whether the 15th International Conference of Architects, scheduled to convene at Washington, during the last week of September is to meet with a similar fate.

An exhibition of international architecture, and an interesting programme — the result of many months of careful planning—has been arranged.

It will be regrettable if the conference has to be postponed, but everything has to give way to war conditions these days, and now that the distinguished contingent of British and French architects are unable to attend, any meeting that might be held could certainly not be considered fully international.

Whatever decision is made the P. Q. A. A. has appointed Henri Labelle to be their representative, and Harold L. Fetherstonhaugh, President, has been appointed by the R. A. I. C. to attend for the Institute, and Philip J. Turner is the appointed representative for McGill University. Percy E. Nobbs has been honoured by being asked to give an address on "Architects Remuneration", and Henri Labelle is to act as Chairman, when the subject: "Should Public Authority be clothed with power to reject plans as artistically unsatisfactory, rather than as at present for purely technical reasons only?" is for discussion.

The P. Q. A. A. at a recent meeting decided to accept the qualifications of graduates from five Schools of Architecture for membership in the Association, without any additional qualifications, except that of passing the Association's examination in Professional Practice, and serving the necessary 12 months office experience, after graduation. The schools recognised in this category are the following: Ecole des Beaux Arts and McGill University, Montreal; University of Toronto; University of Manitoba, Winnipeg, and the Massachusetts Institute of Technology, Cambridge, Mass. It is to be hoped that all the other Provincial Associations in Canada will adopt a similar policy.

— Philip J. Turner.

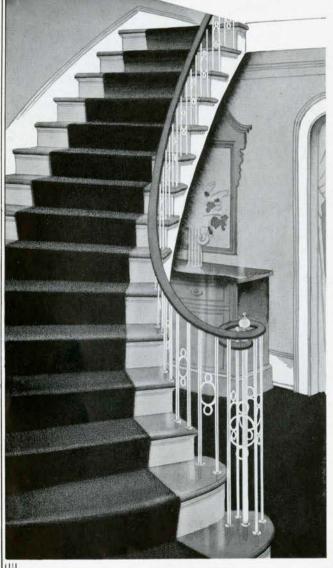
A plan to place the full services of the construction industry at the disposal of the existing civil and military branches of the Dominion Government has been submitted to the Ottawa authorities by the National Construction Council of Canada. It is now receiving the consideration of the Cabinet.

The plan was outlined to Hon. J. L. Ralston, Minister of Finance, and Hon. C. D. Howe, Minister of Transport, by a deputation comprising E. P. Muntz, president of the N.C.C.; J. M. R. Fairbairn, vice-president of the Council; H. L. Fetherstonhaugh, president of the Royal Architectural Institute of Canada; C. D. Harrington, president of the Canadian Construction Association; and E. Ingles, representing the Trades and Labour Congress. The deputation waited upon the ministers as a result of conversations held a few days previously. Mr. A. S. Mathers, Mr. B. R. Coon, Mr. Gordon West also represent the Institute on the N.C.C.

INDEX OF ADVERTISERS

		P.	AGES			P	AGES
Aga Heat (Canada) Limited			16	Jenkins Bros., Limited	*	*	23
Armstrong Cork and Insulation Co., Limited		2	4				2000
Associated Screen News Limited			4	Ladore & Company, Limited	-	-	24
				Lord & Burnham Company, Limited	-2	4	14
Direction Commission 1 1/11 cours Diminion	S-	140	6				
Building Products Limited		(*)	24	Metallic Roofing, The, Co., Limited	-	-	10
Burlington Steel Co., Limited			20				
			21	Page-Hersey Tubes Limited			19
Canada Crushed Stone Corporation Limited -		*	21	Pedlar People, The, Limited	-2	2	24
Canadian Industries Limited		-	22	Pilkington Brothers (Canada), Limited	-	-	9
Canadian Johns-Manville Co., Limited			1				
Canadian Potteries Limited			18	Queenston Quarries Limited	*	**	21
Canadian Powers Regulator, The, Co., Limited	-	2	22				
Canadian Tube and Steel Products Limited -			2	Reardon, The, Company, Limited			5
HENGERS (1915년 HENGERS) - HENGERS (1915년 HENGERS) HENGERS (1915년 HENGERS) HENGERS (1916년 HENGERS) HENGERS (1916			15	Reed, Geo. W., and Co., Limited			10
Crane Limited			6	Richards-Wilcox Canadian Co., Limited -	10	*	11
Crown Diamond Paint Company, Limited -			over	Robbins & Myers, The, Co. of Canada, Limited	-	8	18
Dominion Bridge Company, Limited	12	2	3	Satin Finish Hardwood Flooring Limited -			10
Dominion Oilcloth and Linoleum Co., Limited		-	7	Spun Rock Wools Limited		-	22
Dominion Radiator and Boiler Company, Lim			17	Standard Sanitary Mfg. Co., Limited	-	-	17
Duplate Safety Glass Company of Canada, Lim			9	Sternson Structural Specialties Limited	-	2	24
Eagle Pencil Company of Canada, Limited - Eaton, The T., Co., Limited			over 14	Venus Pencil Company, Limited	~	43	12
Frontenac Floor & Wall Tile Co. Limited -			8	Wallaceburg Brass Limited	-	-	8
			O	Western Steel Products Corporation Limited	-		10
International Nickel, The, Company of Canad	a, Thi	rd C	ovice				
Enniced	1111	id C	over	Yale & Towne, The, Manufacturing Company	-	-	16

If You Require An INTERIOR DECORATOR



EATON'S-College Street. Realizing the necessity for close co-operation between architect and interior decorator, EATON'S Interior Decorating Bureau is ready, always, to co-operate with the architect in every way to get the best possible results from the efforts of both.

THE INTERIOR DECORATING BUREAU

EATON'S - COLLEGE STREET



A Lord and Burnham Glass Enclosure

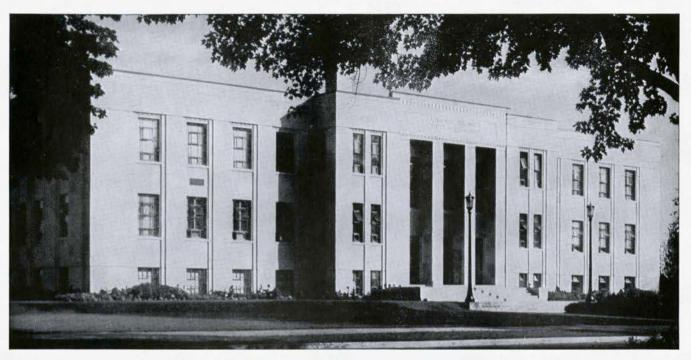
CREATES A FRIENDLY ATMOSPHERE
. . . FOR BOTH OWNER AND ARCHITECT

There is a pleasant, unfailing way whereby an architect can create a permanent bond of goodwill with his client. That is by recommending a Lord and Burnham sunshine room—a glass garden for recreation, occupation and celebration. No room in the whole house will be used as much by your client as his Lord and Burnham home conservatory. He will sing your praises on every occasion for you've given him something from which he can derive hours of downright enjoyment, year after year.

Investigate the possibilities of this goodwill builder. Find out just how low-priced a Lord and Burnham glass enclosure really is. You'll be amazed and delighted, like many other well-known architects, that you can recommend to your clients a healthful, sunshine room for such a small investment.

Lord and Burnham glass enclosures may be had in standard designs or specially built to the architects's own plan. Write us today.





MUNICIPAL BUILDING, ST. CATHARINES

Architect—Robt. I. Macbeth, M.R.A.I.C., St. Catharines. General Contractor—W. H. Yates Construction Company Limited, Hamilton-Electrical Contractor—Dynes Electric Company Limited, Hamilton

COMPLETE ELECTRICAL SERVICE for the Architect

• If the electrical installation in the buildings you are designing now are to be up-to-date even five years hence, nothing but the most advanced items of electrical equipment should be included.

When you specify complete electrical equipment by Westinghouse, you may be sure of the most modern installation available. Ask our nearest district office to tell you of the recent Westinghouse contributions to better electrical service.

From Incoming Line to Lighting Fixtures Specify Complete Electrical Equipment by Westinghouse.



Magnalux Lighting Luminaires are used in halls and offices to provide even, shadowless illumination.

NOFUZ

... For this building, Nofuz distribution panelboards were chosen. Nofuz De-ion circuit breakers permit service to be restored in the shortest possible time. There is nothing to replace or renew.



CANADIAN WESTINGHOUSE COMPANY, LIMITED Hamilton - Ontario

Branch Offices and Repair Shops in all Principal Cities.

Westinghouse

FROM

"PERIOD" to "MODERN"

YALE

SERVES EVERY SPECIFICATION

guarantees.

NO MATTER what

the period called for — there are Yale Locks and builders' hardware to fill your needs. Specify Yale in your next designs. Your client will appreciate the service and beauty it



SAVOY DESIGN

Decorative beauty of the Louis XIV school.

Made in
CANADA
by
CANADIAN
CRAFTSMEN



THE YALE & TOWNE MFG. CO.

Canadian Division

St. Catharines, Ontario

WORLD'S MOST SCIENTIFICALLY DESIGNED COOKING STOVE

Invented by a Nobel Prize Winner



● To describe the scientific features of the Aga Cooker in one advertisement is impossible. It was, however, invented by a scientist whose name commands respect throughout the world — Dr. Gustaf Dalen, Nobel Prize Winner.

The AGA is unique. It has, for instance, a guaranteed yearly fuel cost. It burns day and night and will boil a pint of water in 50 seconds. It contains no moving parts to grow obsolete or wear out. It is clean, simple to operate and more economical than any other type of stove available today. Listed below are but a few of its many features. The Aga is particularly ideal for large estates—but there are models for any size kitchen. It can be recommended with complete confidence. Full details and costs will be gladly supplied.

- · Guaranteed fixed fuel cost.
- The most economical Cooker in the world.
- · Always ready for immediate use.
- · All cooking temperatures automatically controlled.
- Extremely rapid boiling, safe simmering.
- · Unusually even heat in the ovens.

AGA COOKER

AGA HEAT (CANADA) LIMITED, 34 BLOOR ST. W., TORONTO

638 Dorchester St. W., Montreal



1276 Howe Street, Vancouver

You can give them what they want... COMFORT... CONVENIENCE

When you are planning new or remodelling work you can give your clients what they want in comfort and convenience.

In point of comfort the heating system is of prime importance. You can ensure for your clients permanent heating comfort by specifying "Dominion" Heating Systems. You can thus be assured of an installation that will give uniform, draft-free steady heat throughout the season.

You can ensure convenience for them, too, by specifying "Standard" Matched Bathroom Suites for all the bathrooms of the house. These smart suites are made in white or black as well as in 9 different pastel shades.

You can also give them convenience in the kitchen with the smartly-styled "Standard" "Hostess" sink.

Standard Sanitary Mfg. Co.

TORONTO, ONTARIO Limited
Sales Offies: Vancouver, Calgary, Winnipeg, Montreal



DOMINION RADIATOR AND BOILER COMPANY LTD.

TORONTO and BRANTFORD, ONTARIO Sales Offices: Winnipeg and Montreal



THE shortest distance between two given points is a straight line. This fact is elemental.

When you are planning any building where an air conditioning system is to be installed, you will find the shortest way, and the most satisfactory way, to come to your conclusions concerning the motors to be specified is to have R & M engineers work with you. Their service is yours for the asking.

Working with many architects and with many makers of air conditioning systems, R & M engineers bring to you a wide experience and many facts that will help



to assure high satisfaction in the efficiency and economy of operation of the air conditioning of the buildings you plan.

AIR CONDITIONING MOTORS

If you find that a motor of a special type is required, R & M will design and build it.

The Robbins & Myers Co. of Canada, Limited BRANTFORD, CANADA

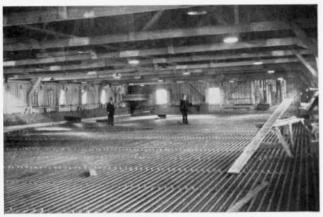
Toronto Sales and Service: 197 Adelaide St. West Montreal: Canada Cement Building In Winnipeg: Mumford, Medland, Limited



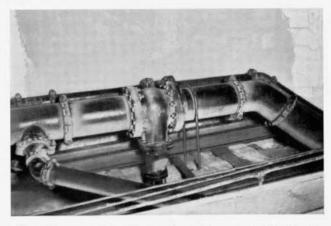
Canadian Potteries

SAINT JOHNS * QUEBEC

WORLD ACCEPTANCE . . . Proof of Leadership



From curling rinks and hockey arenas to private dwellings and apartment houses, Page-Hersey Pipe has been proven, by long-time service, the ideal pipe.



The wide range of Page-Hersey Pipe is demonstrated by its use in small size feeder lines to large size 12-inch main service pine—in mines, buildings—gas lines and every place where strength and safety are factors.



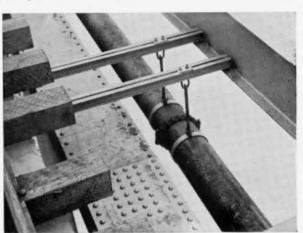
PROCESSES

BUTTWELD

MADE IN CANADA

WELDLESS

- BUTTWELD The simplest form of pipe construction. Made from the finest tube strips, accurately butted and welded. In a complete range of sizes from ½" to 4". (Not made in sizes over 4").
- LAPWELD A superior pipe, pioneered in Canada by Page-Hersey. Withstands greater strain and pressure. Recommended for sizes 2" and over. Made in sizes 1" to 12" inclusive.
- WELDLESS A pipe without welds, made from solid steel billets, punched cleanly and accurately. A super-pipe recommended where exceptionally high pressure or strains are encountered. In sizes 1/4" to 6".



Architects and engineers call for Page-Hersey Pipe to supply dependable long-service installations that match the specified life of the structure.

Whether in the mining industry, or any other industrial development, Page-Hersey Pipe will give long, dependable service. Contractors tell us they like to work with Page-Hersey Pipe because it is easy to install and profitable to use. All scale is thoroughly removed by two separate operations to give strong lengths of steel pipe that are clean inside and out. It bends, cuts and threads with greatest ease for fast, joint-tight installation. Specify Page-Hersey through your wholesaler for proven economical pipe life.

Choose from 3 processes in a range of 6 different types of pipe.

PH-19

PAGE-HERSEY PIPE

PAGE-HERSEY TUBES LIMITED

100 CHURCH ST. TORONTO

REGULAR STEEL PIPE • COPPER CONTENT STEEL PIPE • STEEL-CLAD COPPER PIPE • GENUINE WROUGHT IRON PIPE • WATER, GAS AND OIL WELL CASING • BOILER TUBES



KITCHENER PUBLIC BUILDING

KITCHENER, ONTARIO

Architects:
DEPARTMENT OF PUBLIC WORKS
OTTAWA

Contractors:
BALL BROTHERS LIMITED
Kitchener, Ont.

AGAIN...BURLINGTON RAIL STEEL

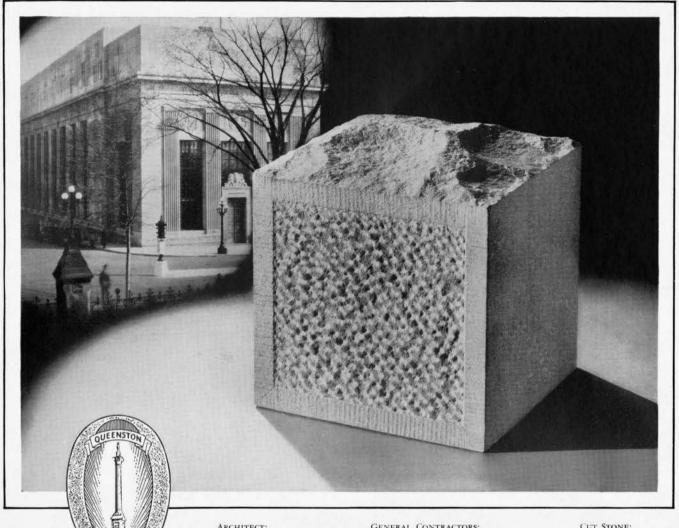
Recently completed, the Kitchener Public Building stands as one more testimonial of the preference for Burlington "Rail Steel" Reinforcement.

Burlington Rail Steel Reinforcement Bars are rolled from selected steel rails. They therefore possess maximum strength and toughness. During manufacture the ductility of the bars is further improved by additional heat prior to rolling. The additional "working" of the steel, combined with controlled heating and cooling, refines the grain and produces a more closely knit structure. The result is a reinforcement bar with a high elastic limit and toughness.

BURLINGTON STEEL CO., LIMITED HAMILTON - - ONTARIO



Burlington - Good Steel-Good Service



ARCHITECT: ERNEST BAROTT

GENERAL CONTRACTORS: ANGLIN-NORCROSS LTD.

CUT STONE: OUEENSTON CUT STONE CO.

High Merit... *High Reward*

"Build with Queenston Silver-Grey Limestone"

OWEVER noble the conception of the architect. the selection of materials may make or mar his building. This Bank of Montreal at Ottawa has won the highest award which architects can bestow.

To build with Queenston Silver-Grey Limestone is truly to "Build for the Ages."

QUEENSTON QUARRIES Limited

SELLING AGENTS

CANADA CRUSHED STONE CORPORATION HAMILTON **TORONTO** LIMITED



SPUN ROCK WOOL

Regd.

for Sound Insulation and Acoustical Correction

The resilient, long-fibred construction of bulk Spun Rock Wool recommends itself for Sound-proofing and the Acoustical Correction of halls, buildings, etc.

Light in Weight Non-corrosive Fire and Vermin-proof Expands under Vibration

Supplied in bulk, or in blankets taking plaster finish on one side.

For bulk wool sample and full information write to:

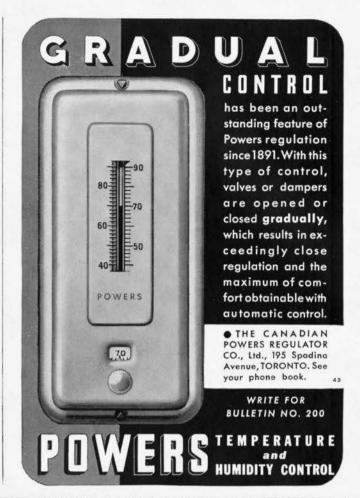
SPUN ROCK WOOLS LIMITED

THOROLD, ONT.

or

F. S. BRIDGES, LTD., 8 Marlborough Ave., Toronto 5

Distributor for Eastern Canada





CANADIAN INDUSTRIES LIMITED

Paint and Varnish Division

FACTORIES:

Montreal Toronto Regina **BRANCHES:**

Halifax Winnipeg Vancouver





TIGHT!

Tight . . . under twice the pressure it will ever receive in service! Each Jenkins Valve must meet this test, which is but one of countless safeguards we insist upon to make sure that our valves will do their work perfectly even under the most trying conditions.



MADE IN CANADA BY JENKINS BROS. LIMITED, MONTREAL
..... OBTAINABLE AT YOUR LOCAL SUPPLY HOUSE



WATERPROOFINGS
CONCRETE HARDENERS
CAULKING COMPOUNDS
BAKELITE COATINGS

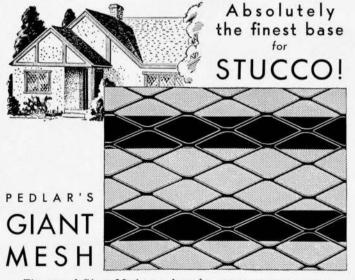
SECURE MUTUAL SATISFACTION AND RELIABILITY FOR YOUR CLIENT. SPECIFY "STERNSON PRODUCTS"

STERNSON STRUCTURAL SPECIALTIES

Toronto

BRANTFORD

Montreal



The use of Giant Mesh as a base for stucco ensures a permanent and fire-resistant surface.

Giant Mesh is reinforced with an Insulation backing of either Kraft or Waterproof paper, that keeps out dampness, heat or cold. We also manufacture "Universal" Metal Lath, Rib Lath, Corner Bead, Holosteel Studs, etc.

Send for samples and prices.

THE PEDLAR PEOPLE LIMITED

Established 1861

Head Office-Oshawa, Ont.

Montreal—Ottawa—Toronto—Winnipeg—Calgary—Vancouver

PEDLAR MAKERS OF METAL-BUILT PRODUCTS FOR 75 YEARS

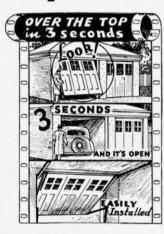


SPECIAL types in 3/16" and 3/8" for wood sub-floors. All types, for smooth-finished cement sub-floors. Installed by B.P. Approved Flooring Contractors.

BUILDING PRODUCTS LIMITED

MONTREAL WINNIPEG TORONTO SAINT JOHN HAMILTON HALIFAX

Make ANY Set of Doors Open Over-the-Top



- · Spring Operated.
- No pulling or lifting.
- Doors completely out of sight when open.
- Require no servicing.

NEW BEAUTY FOR GARAGES

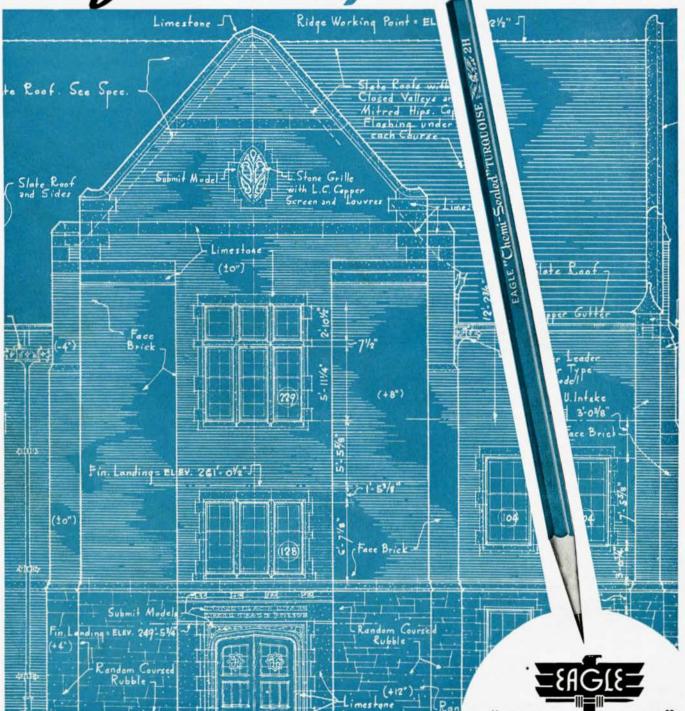
OVER-THE-TOP equipment fits any type of door, permitting extreme latitude in door design.

Spring Operated—OVER-THE-TOP doors open with a turn of the handle. Disappear completely under the header when open. Easily installed in minimum space at remarkably low cost. Write NOW for catalogue.

LADORE & COMPANY LIMITED WALKERVILLE, ONTARIO



DIRECT FROM YOUR PENCIL Perfect Blue prints TRACING!



SO OPAQUE and densely uniform is every line from a TURQUOISE drawing pencil that you can make sharp, perfect blueprints direct from your pencil tracings. In addition, Eagle's patented super bonding process gives "Chemi-Sealed" TURQUOISE stronger points and seals in the lubricating waxes for permanent smoothness. To prove all this yourself, send for a specimen blueprint and free TURQUOISE pencil in any grade you wish. Please mention your supplier and the name of this publication. MADE IN CANADA *Trade Mark Registered

DRAWING PENCILS

EAGLE PENCIL COMPANY OF CANADA LIMITED, 217 BAY STREET, TORONTO