

MATTHEW HALL

& CO., LTD.

ESTD. 1848



MATTHEW HALL

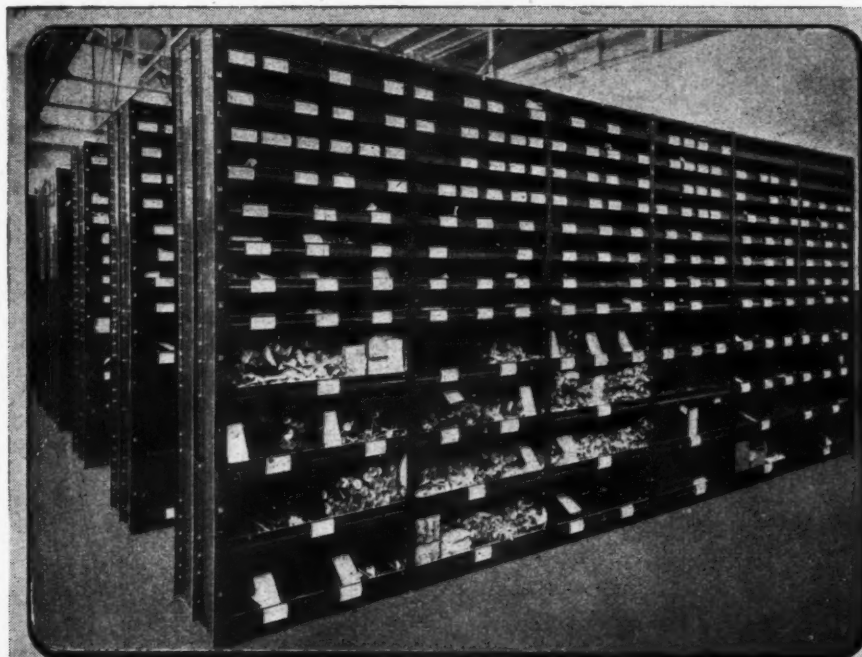
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**For all
Forms of
Steel
Storage
Equipment**

Harvey Steel Equipment, whilst being Fire-resisting, Hygienic and Vermin-proof, also possesses the added advantage of perpetual durability and security. Adjustable Storage Bins can be arranged to form a stack giving accommodation exactly as required. No waste space. It can be dismantled and re-erected as often as desired without depreciation. Full details of the complete range are shown in catalogue No. A.J.690.

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G. A. Harvey & Co. (London) Ltd. Woolwich Road, London, S.E.7

Catalin is a cast synthetic resin made in a wide range of glorious colours and mottled effects, and can be opaque, transparent or translucent.

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Catalin is the ideal material for cabinet fittings, cutlery and umbrella handles, brush backs, dress accessories, games counters and fancy goods. It is the ideal material for lighting fittings, clock cases, radio cabinets, switchboard fittings, gauge bodies and dials, and all kinds of knobs, indicators and control handles.

In all your production problems Catalin's technical staff is ready and willing to assist. Your enquiries are cordially invited.

* Reproduction of these Catalin handles is by kind permission of Lacrinoid Products Ltd., Gidea Park, Essex.

colourful
Catalin
TRADE MARK REGD.
THE GEM OF MODERN PLASTICS

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Hand-cut circular fret zone and splay type hands, to fit flush on wall. Supplied complete with metal back-plate. In chromium, bronze, antique brass, sprayed gilt or other standard sprayed or metal finish with 10", 12" or 15" diameter dials.

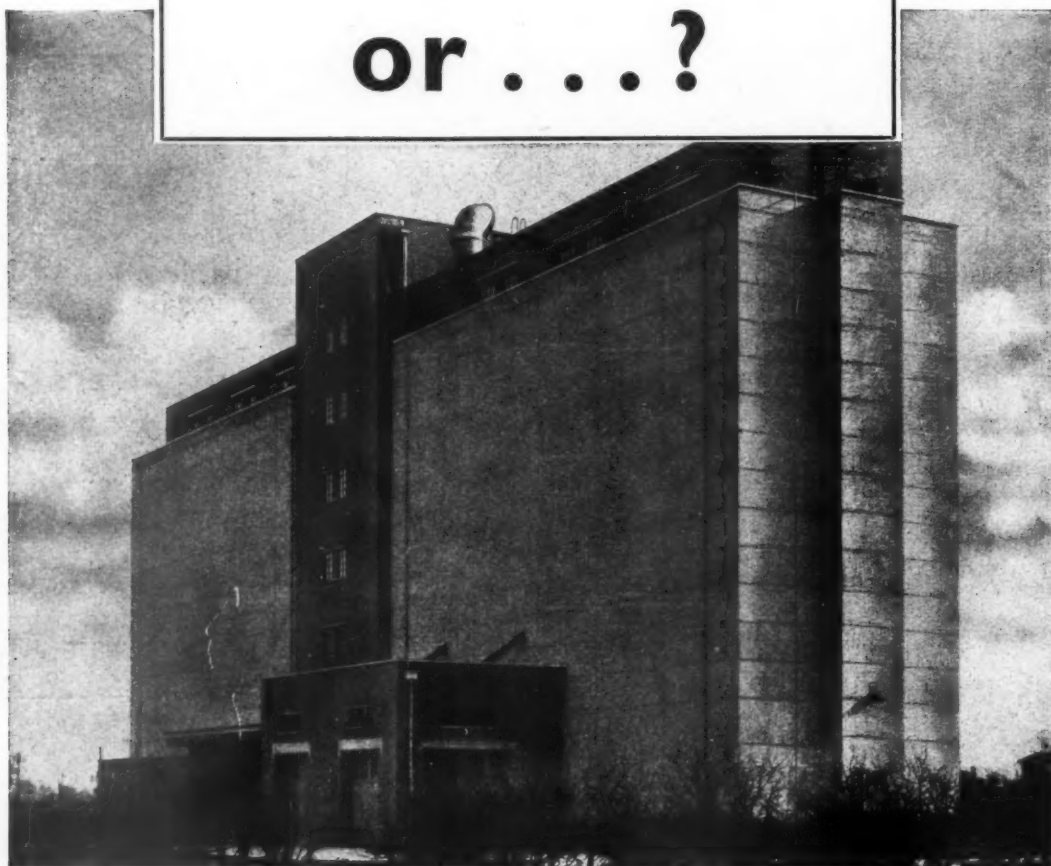
This advertisement is a reproduction of one of a series of Data Sheets prepared for the convenience of architects. These will illustrate the complete range of Smith Special Clocks. Please write for your copies.



ISSUED IN THE INTERESTS OF EFFICIENT TIMEKEEPING BY SMITH'S ENGLISH CLOCKS LTD.
The Clock and Watch Division of S. Smith & Sons (England) Ltd.



Warehouse? Garage? Cinema? or . . . ?



Actually this is a Grain Silo at Newport, Shropshire, built by Wimpeys during the war.

But the building problems ahead of us have one big factor in common with pre-war and wartime building operations. They call for experienced planning. They call for unwasteful use of time, money, man-power and machine-power. And that is where Wimpeys can contribute — methods, resources and experience.

★ ★ ★

The smooth speed and economy of Wimpey's work are the result of planning: *complete* pre-planning. Before a single lorry stirs, every step and sequence exists in chart-form, plotted, timed, co-ordinated.

But this planning isn't done 'in a vacuum.' It isn't based on theories. It is based on information from the site—collected by the

nearest Wimpey Regional Office. Building, Estimating, Plant, Transport, Accountancy—each department works out needs and schedules. These are adjusted,



welded together. Wimpey's Central Laboratory tests all materials (both at this stage and during work on site). The Master Plan is rapidly completed.

Finally, throughout work on site, Progress Engineers see that performance matches plan — or occasionally, if some new factor enters, see that performance is modified. For, let us repeat, Wimpey planning is elastic. It is

the result of sixty years' successful practice. It is employed *because it saves time and money and produces better work.*

Regional Organization

Wimpeys can immediately apply their methods to any job of any size in any part of Britain. Wimpey's Head Office is at Denham, Middlesex, and their Regional Offices are at Birmingham, Cardiff, Manchester, Newcastle, Nottingham, Edinburgh and Glasgow.

WIMPEY

BUILDING CONTRACTORS SINCE 1880

"English Electric"

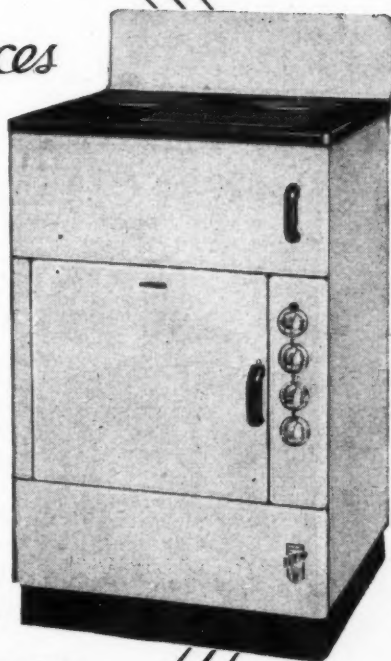
Electrical Appliances

UPON the architect and builder there frequently devolves the responsibility of specifying electrical cooking and heating equipment . . . indeed, in many instances it is essential that the correct choice be made before planning can start.

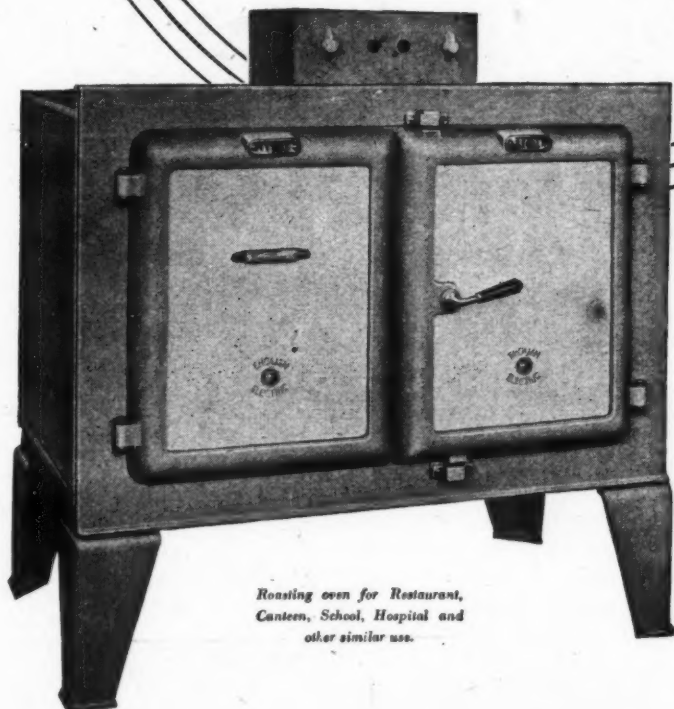
Three things are vital . . . the equipment must be of a design able to "fit in" with other apparatus — that it has a pleasing appearance and lasting finish — and that it is completely reliable.

The range of "English Electric" cooking and heating appliances embodies all these features in design and operation.

It is in your interest to discuss your problems with an "English Electric" Development Engineer.



Vertical type Cabinet
Cooker for domestic use.



Roasting oven for Restaurant,
Canteen, School, Hospital and
other similar use.

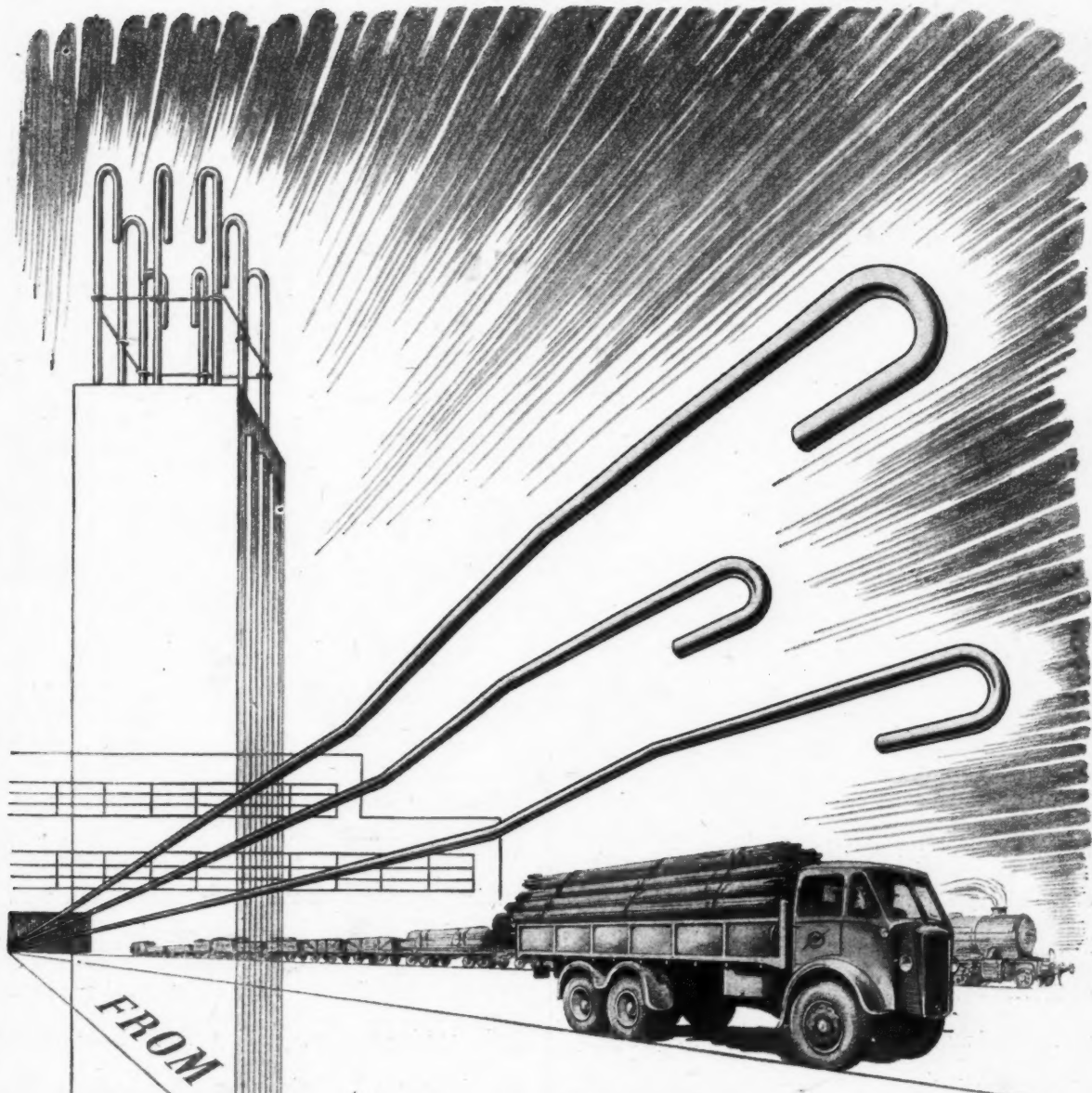


The ENGLISH
ELECTRIC Co. Ltd
Domestic Appliance Dept.
Queen's House, Kingsway
W.C.2



*This is the symbol
by which Walpamur
Quality Paints are
now known*

THE WALPAMUR CO LTD · DARWEN & LONDON



STEEL REINFORCING BARS

FROM

STOCK



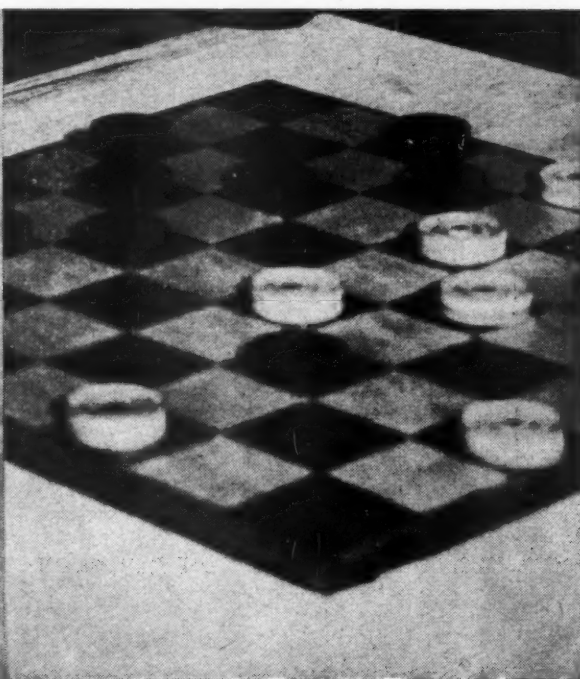
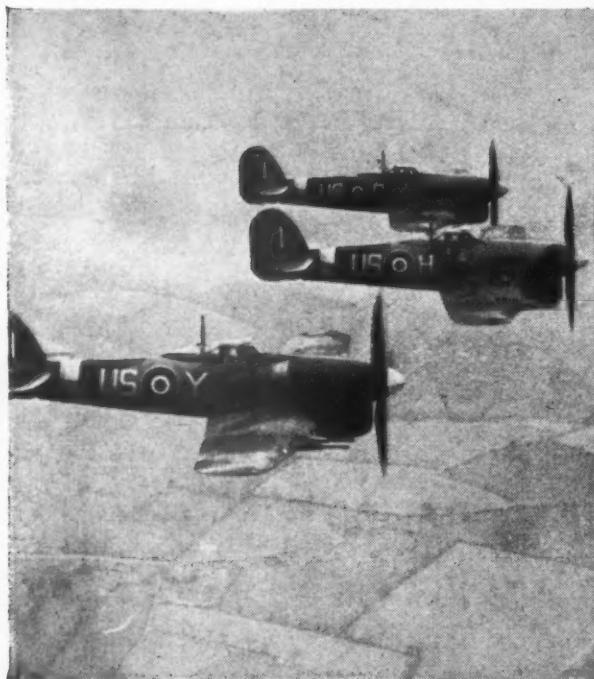
Large stocks of "Stribar" brand steel bars for reinforcement are carried at our London Warehouse. Prompt delivery can be made of sizes from $\frac{3}{16}$ " upwards, cut to length, shaped and hooked as required.

UNITED STRIP & BAR MILLS, 8-10, GROSVENOR GARDENS, LONDON, S.W.1

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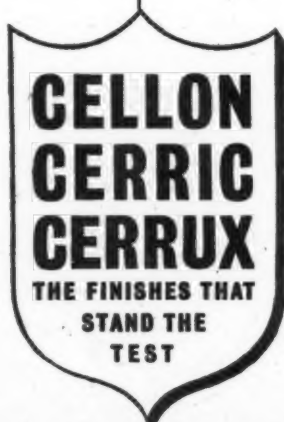
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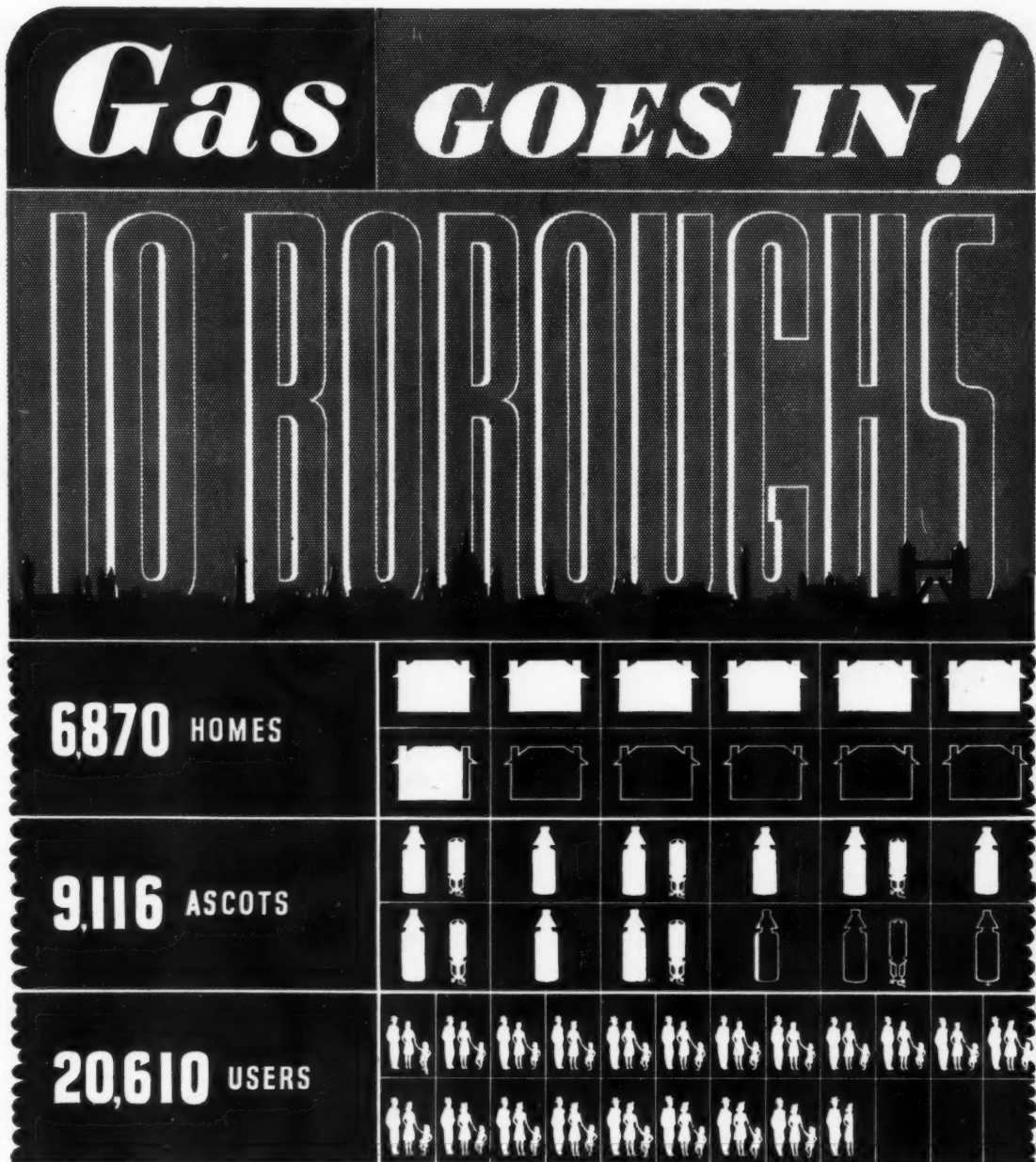
Yes, we Cellon people are very adaptable—we have to be. Throughout the war we were at the disposal of the Supply Departments, devising and manufacturing new and tougher finishes for every type of Service equipment. Today, within the limits of shortage of materials, we are assisting the progress of post-war industry. The problems we face are different, but we are reaping the benefit of our

war-time experience. So indeed are our customers. We don't mind admitting that the Cellon technical service department is even more efficient now than it was before the war. We are better qualified to deal with the difficulties of making good products *look good*—and of making them last longer. So whatever your finishing problem may be, we look forward to putting an end to it. May we?



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LIGHTWEIGHT CONCRETE

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NATION WIDE CRAFTSMEN IN ROOFING & WATERPROOFING

Briggs have built up a co-ordinated Roofing organisation at 8 centres throughout the country.

Technical information is periodically pooled, and precise factual knowledge is exchanged on many interesting aspects of roof construction. This information is now at the command of every Architect and Builder, and Area Managers now are ready to discuss full constructional details.

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a page from the booklet 'Kynal' and 'Kynalcore' aluminium alloys

ALUMINIUM and ALUMINIUM ALLOYS 'Kynal' and 'Kynalcore' Wrought Productions and their Classifications Mechanical Properties and Complementary Specifications

SCHEDULE I

CLASSIFICATION (I.C.I.)	FORM	CONDITION	COMPLEMENTARY SPECIFICATIONS			MECHANICAL PROPERTIES (Minimum unless stated otherwise)					REMARKS	
			D.T.D.	B.S.S.	S.T.A.M.	0.1% Proof Stress Tons/in. ²	Ultimate Stress Tons/in. ²	Elongation % on 2 in.	Brinell Hardness (See p. 10)	Other Tests (See p. 10)		
ALLOYS NOT HEAT-TREATED												
'KYNAL' PA19	SHEET AND STRIP	Soft ↓ Hard	653 213A	— —	AW3C —	7.5 —	6-7.5 7.5-9.5 11	20-25 5-12 5	28 35 47	Flat (4) IT (4) IT (4)	For low to medium strength applications where good ductility is required. Suitable for cold forming, welding (fusion or spot) anodises well, has good corrosion resistance.	
	BARS AND SECTIONS	As extruded	—	—	AW3A	—	9	10	40	—		
	TUBES	↓ Hard	—	—	AW3B	—	8.5-10.5	—	—	—		
'KYNAL' M35/1	SHEET AND STRIP	Soft ↓ Hard	634 606	L46 —	AW6C —	6 12	11 15	18 5	43 67	Flat (4) IT (4)	For medium strength applications where good ductility and very good corrosion resistance are required, particularly under marine conditions. Suitable for welding (fusion or spot), and anodising. Has moderate machining qualities.	
	BARS AND SECTIONS	As extruded	—	L44	AW4A	—	11	18	—	—		
	TUBES	Soft ↓ Hard	310B 440	— —	AW4B —	11	9-11 [2] 15	— —	45 67	[6]		
'KYNAL' M35/2	SHEET AND STRIP	Soft ↓ Hard	180B —	— —	AW5C —	7 15	14 18	18 5	56 75	Flat (4) 2T (4)	For intermediate strength applications, where good ductility and very good corrosion resistance are required, particularly under marine conditions. Suitable for anodising.	
	BARS AND SECTIONS	As extruded	—	—	AW5A	6	14	18	56	—		
	TUBES	Soft ↓ Hard	— —	— —	AW5B —	8 12	14 16	18 5	56 75	[6]		
'KYNAL' M36	SHEET AND STRIP	Soft ↓ Hard	— —	— —	AW6C —	8 17	17 20	18 5	45 80	Flat (4) 2T (4)	For intermediate strength applications, where good ductility and very good corrosion resistance are required, particularly under marine conditions. Suitable for anodising.	
	BARS AND SECTION	As extruded	—	—	AW6A	8	16	18	50	—		
	TUBES	Soft ↓ Hard	— —	— —	AW6B —	8 14	17 18	18 5	45 80	—		
'KYNAL' M37	WELDING ROD AND WIRE	Soft	303	—	AW6D	—	16-21	—	45	[5]	For higher strength applications. Has excellent corrosion resistance under marine conditions. Suitable for anodising.	
	SHEET AND STRIP	Soft	182A	—	AW7C	9	20-23	20	60	IT (4)		
	BARS AND SECTIONS FOR FORGING	Softened	297	—	AW7A	9	20	18	56	—		
	TUBES	Soft ↓ Hard	190 186A	— —	AW7B —	9 16 17-18 [7]	20-23 25 25-26 [7]	18 5	56 — 95	[12] — [12]		
	WIRE FOR RIVETS	Soft ↓ Hard	198A 304	— —	— —	— —	20-23 27	— —	56 80	[5] [5]		
For medium strength applications where good ductility and very good corrosion resistance are required.												

NOTE The figures quoted in brackets refer to Notes on page 10 Proof Stress values marked with an asterisk are 0.2 %.

The purpose of this booklet is to place before constructional engineers and designers the more important physical properties of 'Kynal' and 'Kynalcore' products, which are manufactured by the Metals Division of Imperial Chemical Industries Limited. The data will

enable them to select the alloys most suitable for their specific requirements.

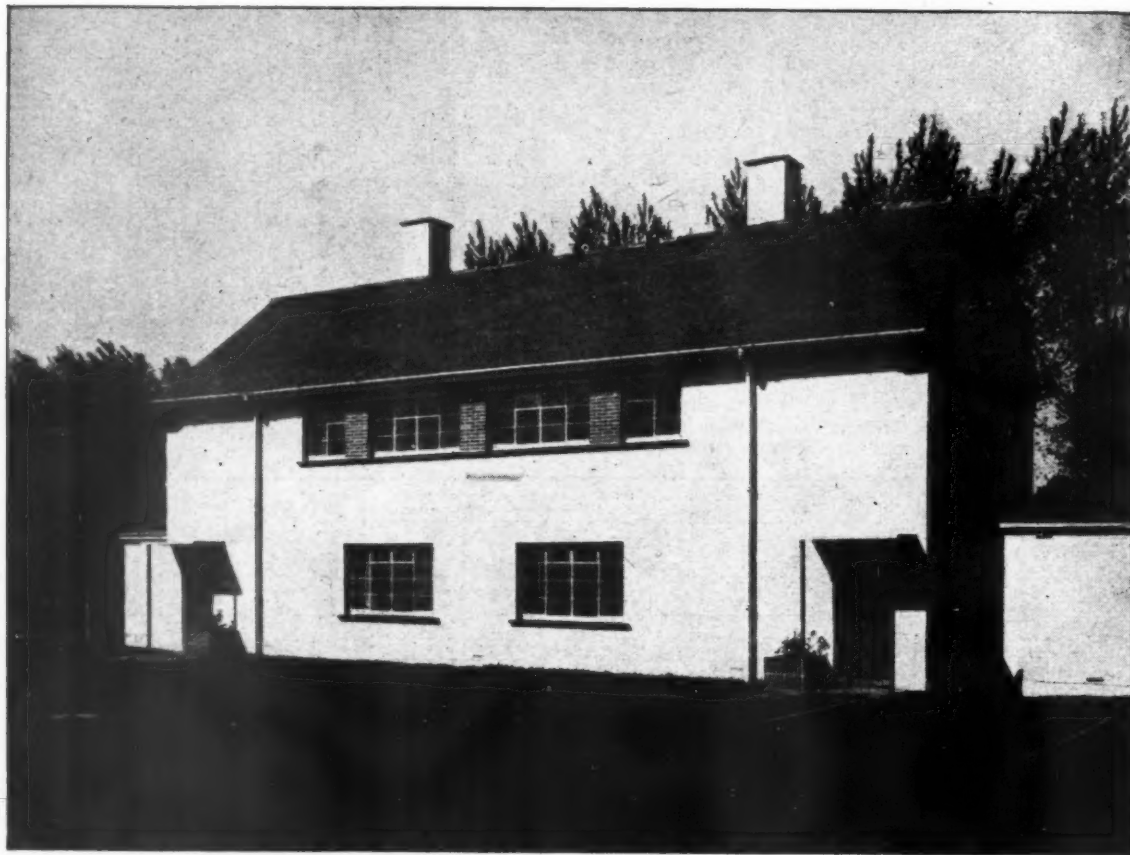
The services of our technical and research Departments are available to all users of light alloys.

Copies of the booklet can be obtained from:—

IMPERIAL CHEMICAL INDUSTRIES LIMITED, LONDON, S.W.1



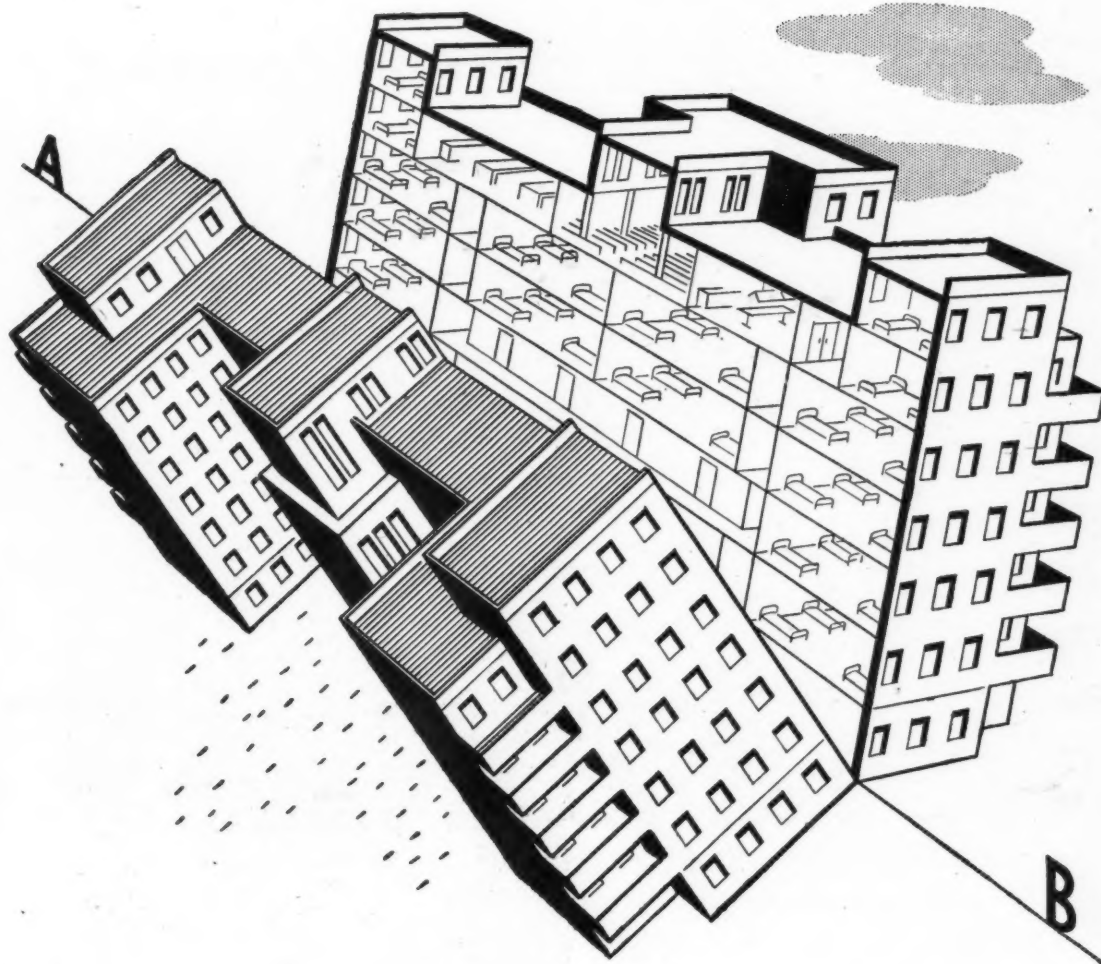
M.56



One of the prize-winning pairs of houses in the House-Building Industries Standing Committee's Competition, built by Messrs. P. & R. Lewis, Ltd., Cardiff, and designed by Sir Percy Thomas, P.P.R.I.B.A. The external brickwork was painted with Snowcem Waterproof Cement Paint.

Bakelite cross-section No. 6

G.57



MODERN HOSPITALS need modern materials, special-purpose materials of the highest quality. Plastics among other things . . . BAKELITE plastics of many different types, some of them quite unknown to the ordinary user, but all doing their own particular jobs. *Very particular jobs in electrical and electronic equipment . . . in chemical-*

resisting laboratory apparatus . . . in aseptic operating theatre equipment . . . in protective coatings for delicate surfaces . . . in non-slip safety floors . . . in germ-resistant paints and varnishes . . . in countless hygienic fittings and fixtures. New materials for centres of healing . . . built on quality by BAKELITE experience.

BAKELITE PLASTICS

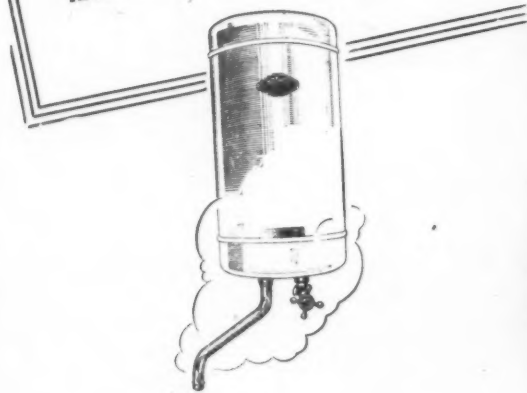
TRADE MARK

Pioneers in the Plastics World

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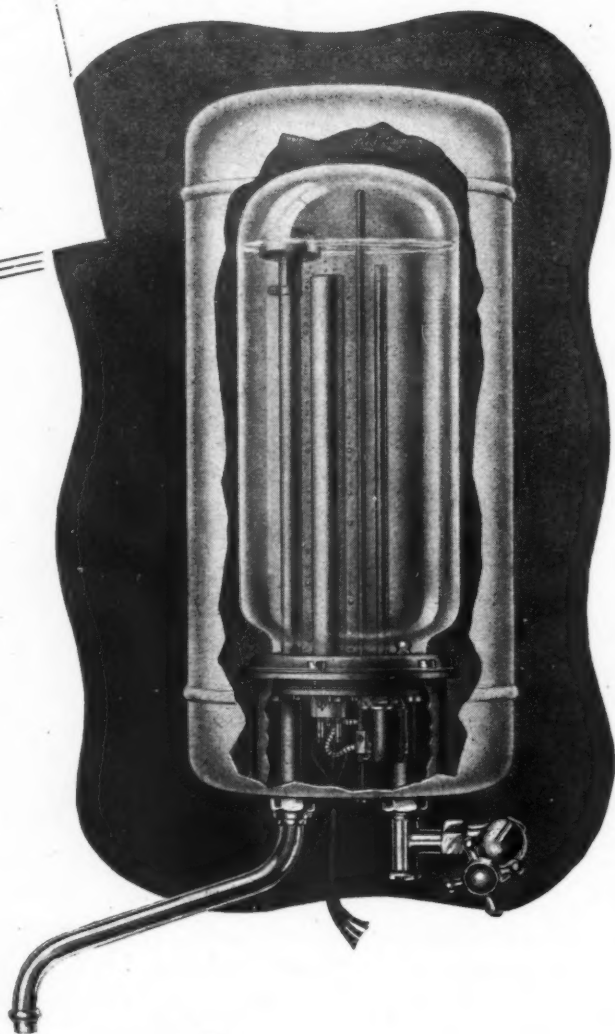
SIMPLE TO INSTAL ✓
FULLY AUTOMATIC ✓
ODOURLESS AND FUMELESS ✓
REQUIRES NO FLUES ✓
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RADIATION LOSSES NEGLIGIBLE ✓

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Wherever there is mains supply of water and electricity, there the Hotric 1½ Gallon Storage Heater can fulfil a most vital function—the supply of hot water at any time of the day or night.

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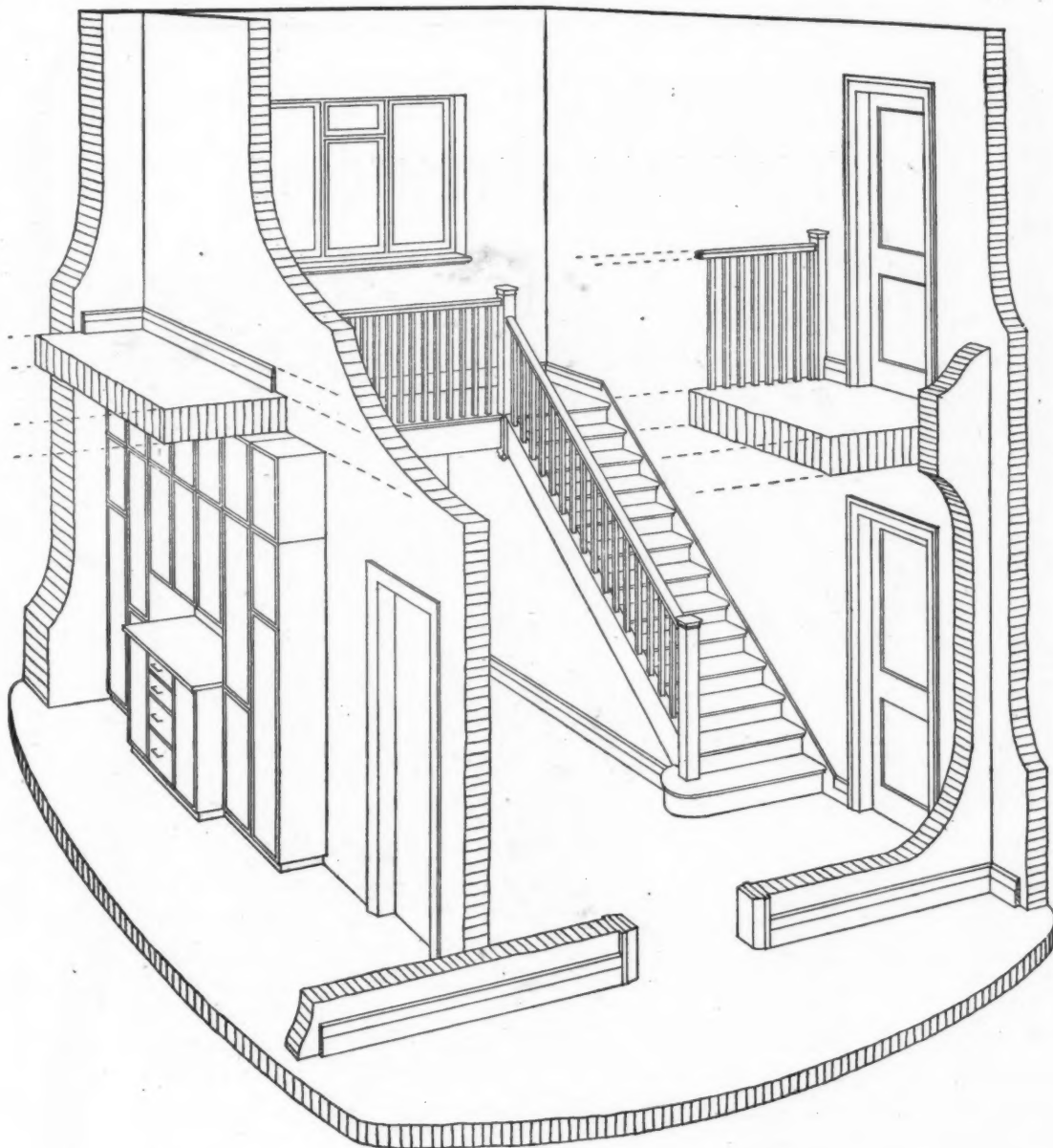


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Leathercloth

"**REXINE**" and
"VYNIDE"

are still scarce

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Unfortunately, supplies of cotton cloth and, now, other raw materials essential for the production of leathercloth are

scarce. The return to normal conditions is slower than we would wish, but when that happy state is reached again, we shall be able to fulfil all the requirements of our customers, both old and new. Meanwhile, we are giving all our customers a fair share of our limited output.



IMPERIAL CHEMICAL INDUSTRIES LIMITED
LONDON, S.W.1

WE BUILD IN STEEL

BY all means let us admire the excellence of the spider's craft, but let us remember that all the structural problems of the spider were solved millions of years ago. Man continually faces new problems calling for fresh solutions; that he can assess, judge and act in changing conditions is the measure of his genius.



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WALTON & CO.
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STRUCTURAL STEELWORK

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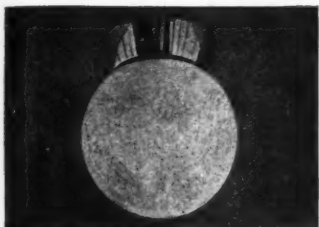


**In the British climate, more
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and builder are discovering in
IBECO★ a satisfactory answer
to many teasing problems of
damp-control**

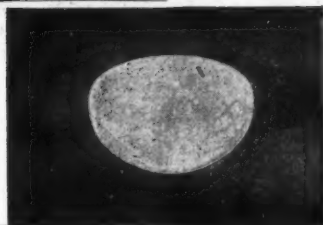


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IBECO is a tough-textured kraft paper made completely impervious to moisture by a patented bitumen emulsion totally permeating the paper fibres. Folding and creasing do not impair its waterproofness since there is no 'free' bitumen to harden and crack. Five weights are made—for concrete work, roof work, floor- and wall-lining. Samples and full technical data are available on request.



ULTRALUX



ULTRALUX 'G'

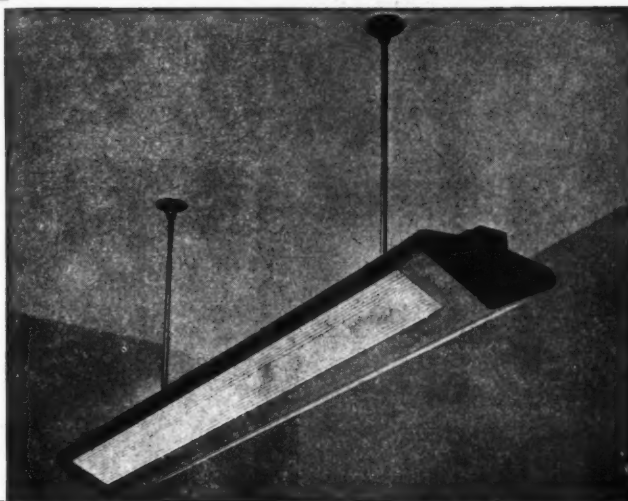


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TUBALUX

fluorescent
FITTINGS



The fluorescent tube has created new problems for the designer — problems not only of suitable design of the fittings themselves, but of the planning and disposition of units to ensure a successful installation. In designing our new TUBALUX series of fluorescent fittings, the same happy combination of creative thought and technical knowledge has been applied as in the well-known ULTRALUX range. Simple and satisfactory in form, easy to instal and maintain, TUBALUX fittings lead the way to a more imaginative use of fluorescent lighting.

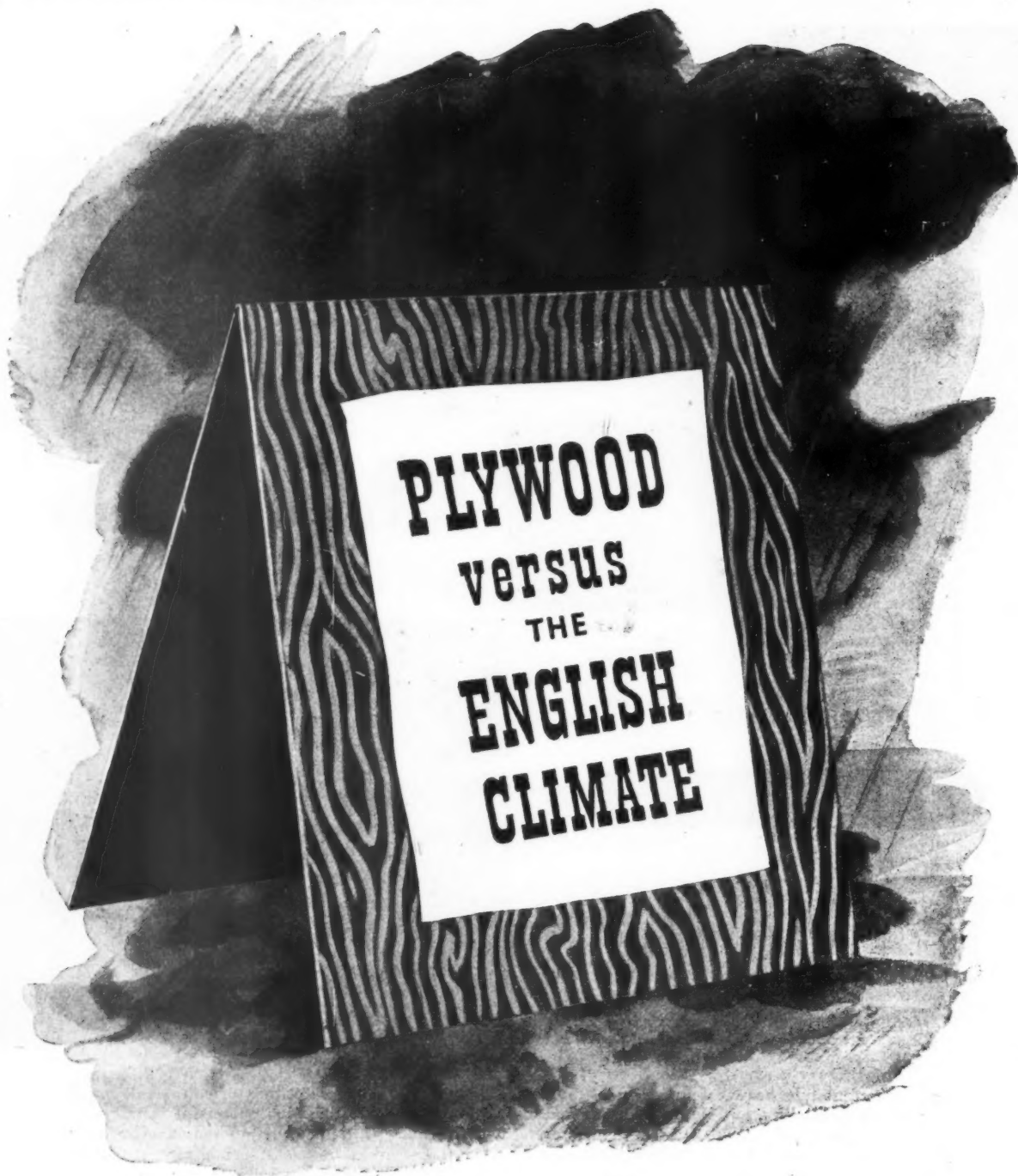
Architects and consulting engineers will always find our design staff — under the guidance of A. B. Read, R.D.I., Director of Design — ready to collaborate on problems of lighting design.

TROUGHTON & YOUNG (LIGHTING) LTD

The Lighting Centre

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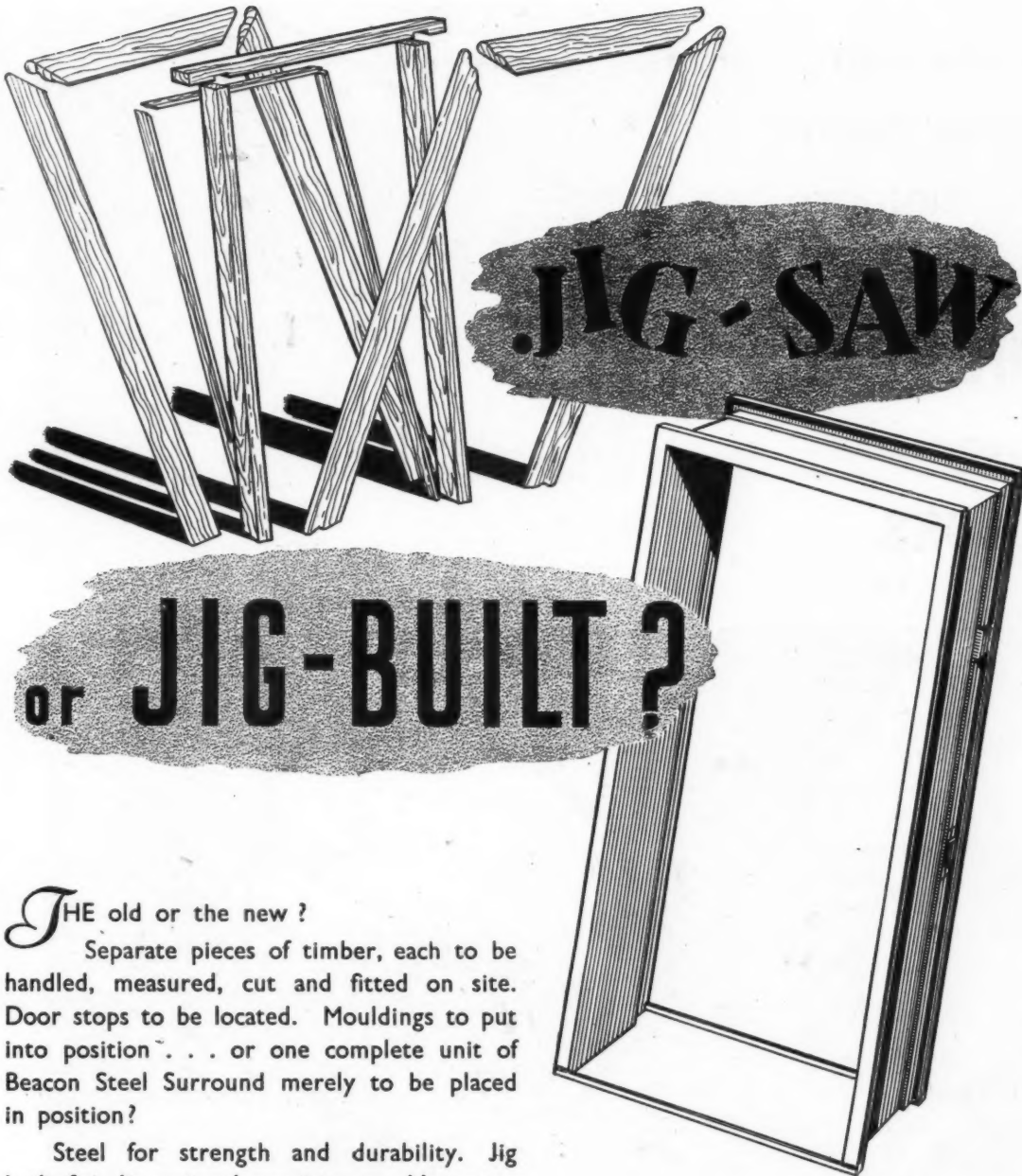
Out of the war have come new and better plywoods that are not afraid of the English weather. Bonded with plastic resins known as Beetle Cement or Tego Resinfilm, they combine strength with lightness, will not delaminate, and require only the normal protection usually given to exposed timber. These new plywoods open up prospects for light yet strong

constructions such as doors, awnings, hoardings and decorative woodwork of all kinds. Each piece is stamped with one of these marks:



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TEGO RESINFILMS (MADE BY BRITISH TEGO GLUEFILM LTD., BLACKHORSE LANE, E.17.)
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Separate pieces of timber, each to be handled, measured, cut and fitted on site. Door stops to be located. Mouldings to put into position . . . or one complete unit of Beacon Steel Surround merely to be placed in position?

Steel for strength and durability. Jig built for dimensional consistency. No warping, shrinking or swelling. Non-porous, fireproof and vermin proof.

Beacon Steel Surrounds are available in many sizes and sections to B.S.S. 1245-1945, copies of which are available on request.



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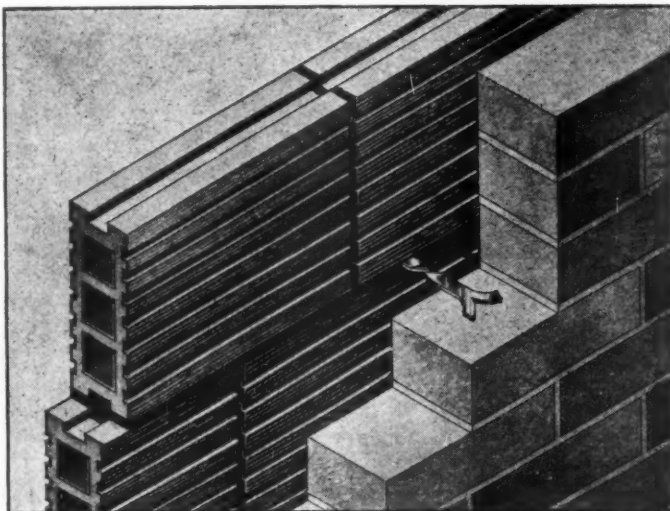
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SPEEDILY ERECTED
WELL INSULATED
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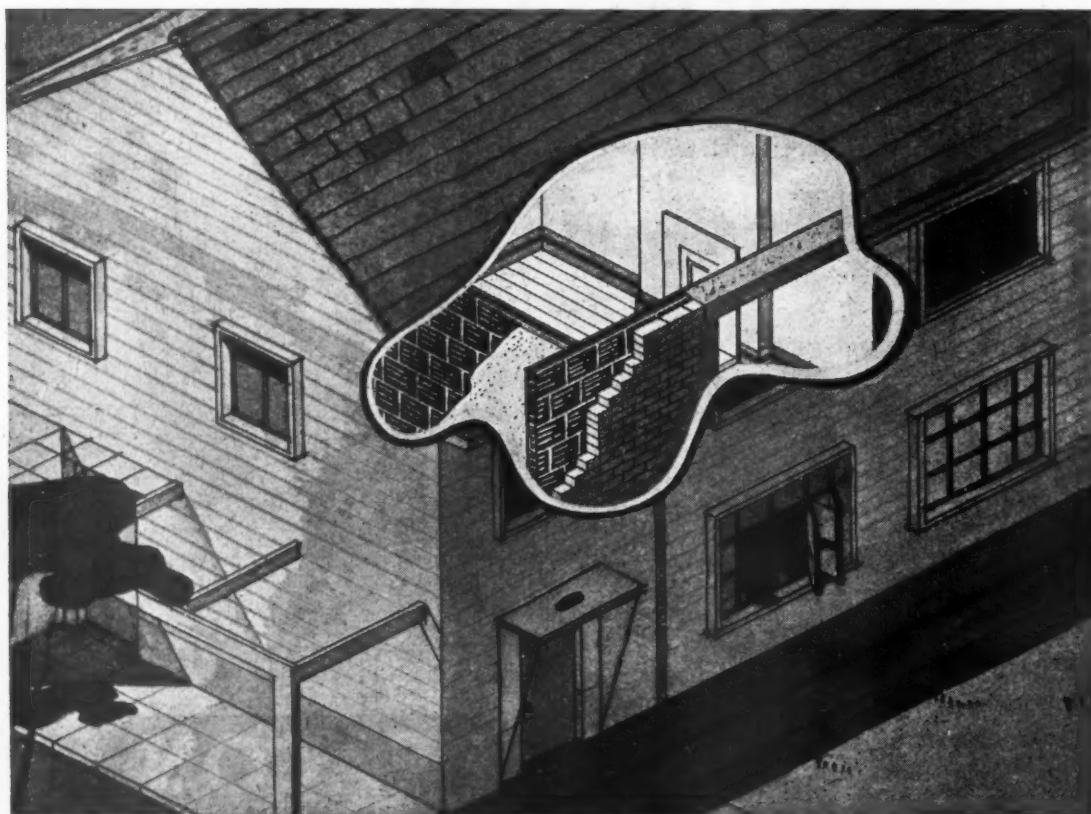
PHORPRES

HOLLOW CLAY

BLOCKS



These blocks can be recommended for all types of partition work, internal lining to brickwork and party wall construction. They are loadbearing, fire and vermin proof and give excellent plastering results.



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L.H.9

BENHAM

**COOKING
APPARATUS**

POST WAR COOKING APPARATUS

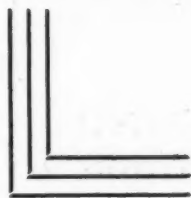


ILLUSTRATED is an example of Benham post-war design of Cooking Appliance.

The trend in design to-day is for apparatus to be "streamlined" in appearance, have surfaces which are hygienic and easily cleaned, and which avoid sharp corners; appliances, in addition, have to be robust to stand up to heavy duty and all working components must be readily replaceable; finally, they must be efficient pieces of kitchen equipment.

KITCHEN PLANNING

This work is undertaken by the Company's planning specialists, who are familiar with the various problems presented by hotels and restaurants, hospitals and associated institutions, cinemas, staff and works canteens, etc.



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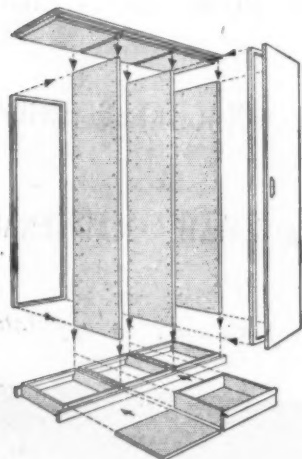
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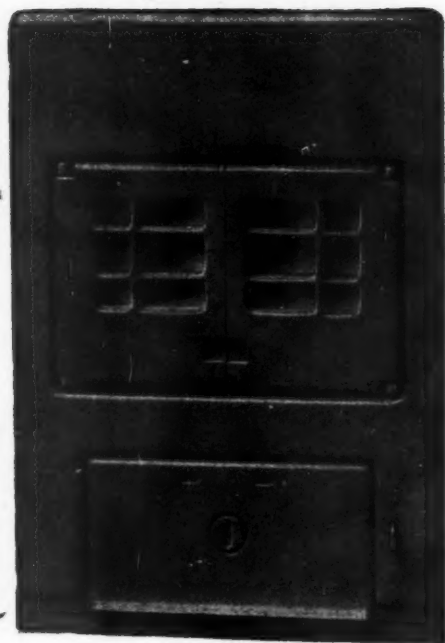
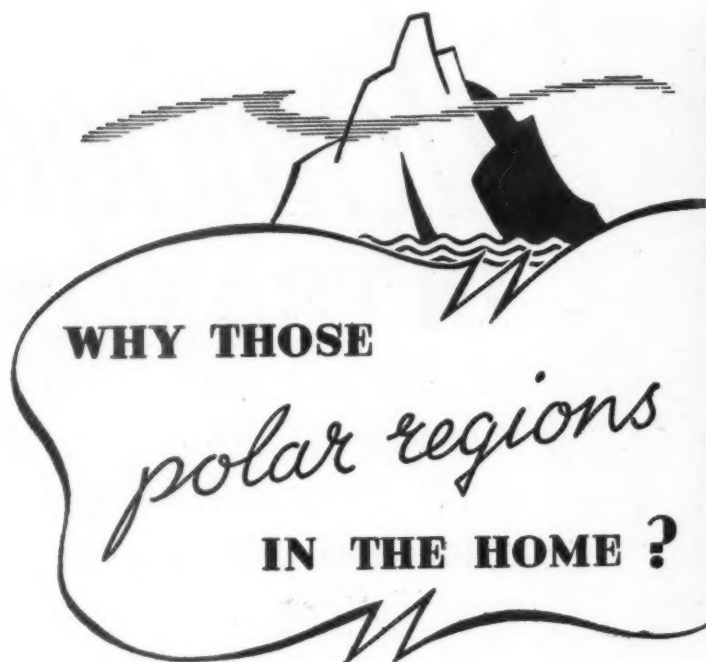
A detailed black and white illustration showing a hand pulling a cable through a Walsall conduit. The conduit is a long, cylindrical tube with a ribbed section in the middle. A cable with a label that reads 'WALSALL' is being pulled through it. The background is dark and textured, suggesting a construction site or industrial setting.

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COMPANY MEETING

TARRAN INDUSTRIES LTD.

The Adjourned Eleventh Ordinary General Meeting of Tarran Industries Limited was held on 26th September in London.

Mr. Alan P. Good (Chairman) said that the meeting which was adjourned in December last had not been held before as the Directors had hoped to finalise the claims against Government Departments so that the Balance Sheet for 30th September, 1945, could be submitted to Shareholders with the outstanding claims settled.

Secondly, certain investigations were being made by the Director of Public Prosecutions and it was desirable to postpone the meeting until these investigations were completed. However, the meeting could not be postponed beyond the 30th September, and it has therefore been necessary to convene it although all claims have not been settled, nor the investigations completed.

Shareholders will remember that the Company had two Contracts with the Ministry of Works; one for the production and erection of 1,000 houses in Hull, the other for the production only of 10,000 houses. This latter contract has been extended to 11,000 houses. The contract for the houses in Hull was completed at Easter, 1946, and it is hoped to complete the other contract before the end of January, 1947.

It is only right to emphasize the fact that the new directors came into control in December, 1944, and that the trading for the year represents little more than six months' work by the new Board. Nevertheless, considerable progress has been made during the year. New factories have been acquired under lease at Belshill near Glasgow, at Middlesbrough and at Sutton-on-Hull. The factories at Clough Road, Hull, and at Thorpe, Leeds, have been considerably extended so that the covered space and capacity is more than twice what it was at the beginning of 1945.

In last year's Report the Directors stated they were unable to explain the loss in the previous years because the records of the Company were insufficient to provide the data required. The provision of accurate costing and accounting records therefore have been one of the primary tasks which directors have undertaken, and we have now achieved a satisfactory accounting set-up.

The Company has taken an interest in Woolaway Constructions, Ltd., which controls the British patents on a form of prefabricated house which is suitable to rural areas. The Woolaway House, which is built of prefabricated units made out of lightweight or aerated concrete, has been approved by the Burt Committee and passed by the Ministry of Health for loan purposes. A number of contracts for the erection of Woolaway Houses are already in hand. The Company has also developed its own model of a factory-made house suitable for industrial areas called the Newland House. This house has also been passed by the Burt Committee and approved by the Ministry of Health for loan purposes. Contracts have yet to be made for this house with the different local authorities, but we have arranged to control local authorities and obtain the necessary orders, and we see no difficulty in obtaining sufficient orders to keep the Company's factories fully employed during next year. In addition, the Company has developed a bungalow specially suitable for rural areas, and it is anticipated that during next year the Company will develop a range of models so as to be able to cater for the varying needs of different local councils.

It is hoped that the accounts for the year ending 30th September, 1946, will not be delayed for anything like the time the present accounts have been delayed, and we hope that these accounts will be presented in the course of the next four months. It is the intention of the Directors at the same time to submit proposals for reconstruction, which they should be able to do as soon as the claims against Government Departments have been settled, and as soon as a number of contracts for the production of the Newland House have been obtained. It is reiterated that on the reconstruction any new issue of shares will be offered to the existing shareholders in the first instance.

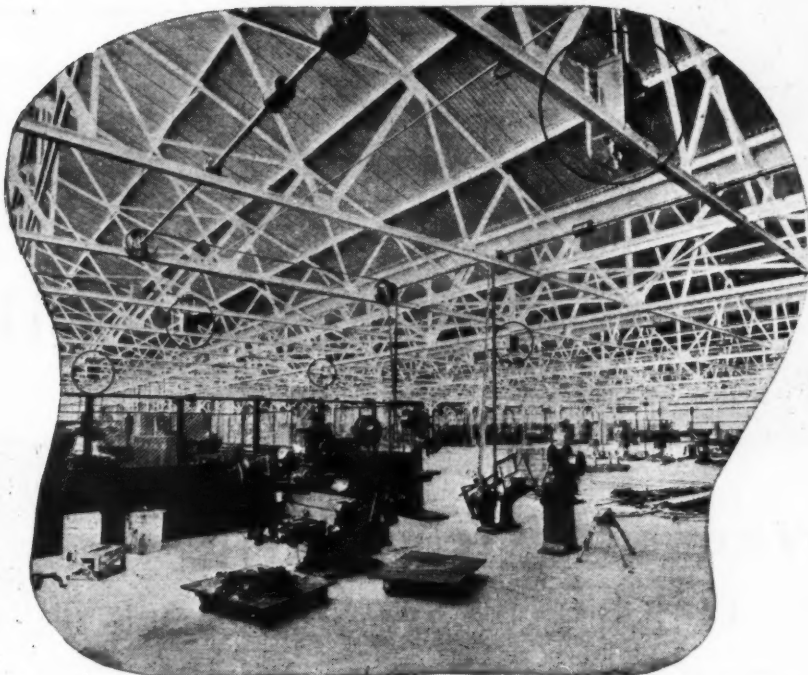
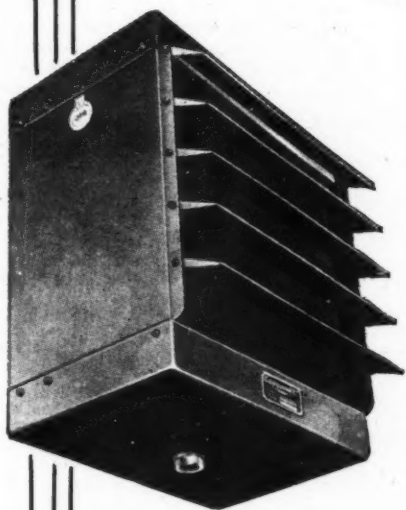
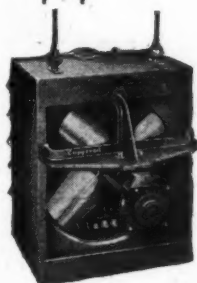
Forethought

For the benefit of family and friends none would grudge time and effort, and a little forethought can do much to help them. Consider, then, the advisability of making an appointment—appoint the executor of your will. You alone can do it; upon your present forethought depends the future protection and comfort of those whose welfare you have at heart.

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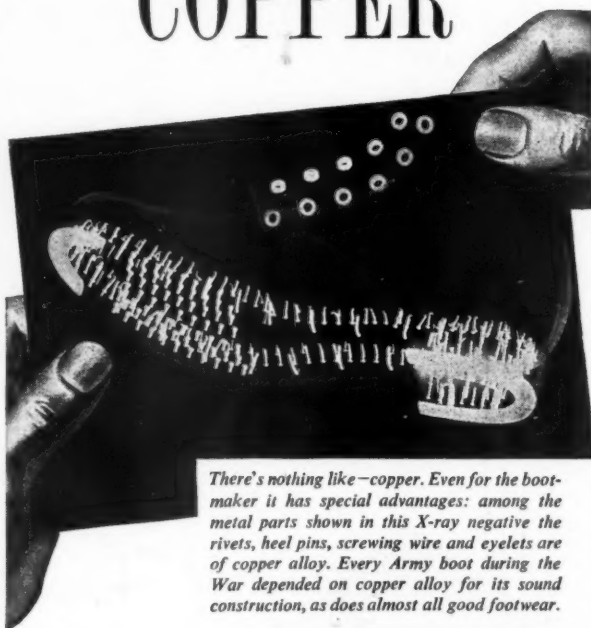
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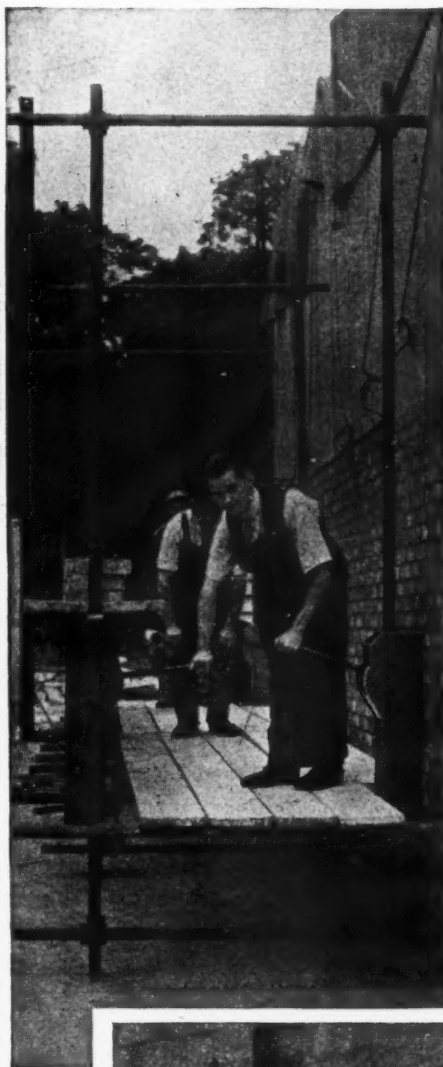


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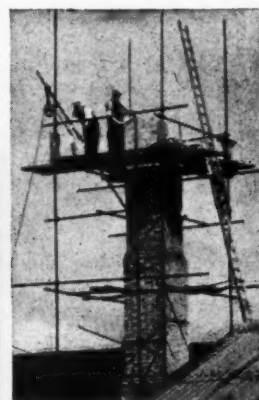
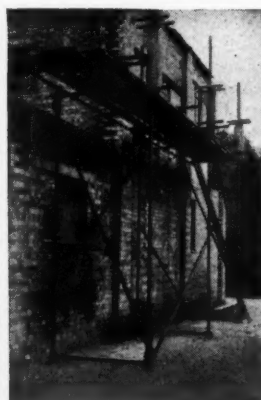
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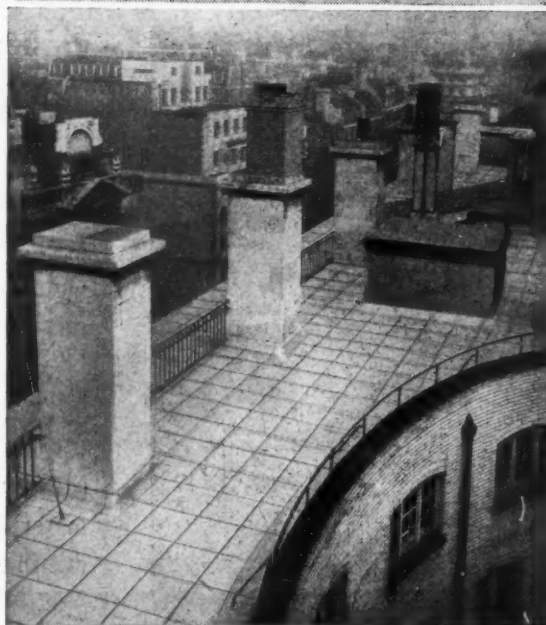
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DIARY FOR OCTOBER NOVEMBER AND DECEMBER

Titles of exhibitions, lectures and papers are printed in italics. In the case of papers and lectures the authors' names come first. Sponsors are represented by the initials as given in the glossary of abbreviations on the front cover.

EDINBURGH. *Exhibition of Standard Products for Housing at the Royal Scottish Museum, Chambers Street, Edinburgh.* The aim of the exhibition is to make known the types of goods in production now or in the future, from whom they are available and at what price. It is also hoped that it will encourage the use of products conforming to British Standard Specifications to ensure certain basic qualities. The exhibition will be mainly for the information of local authorities, technicians and builders but will also be open to the general public. (Sponsor: Ministry of Works and the Department of Health for Scotland in consultation with the other Government Departments concerned, Mondays to Saturdays 10 a.m. to 5 p.m., Sundays 2 p.m. to 5 p.m. Admission free. OCT. 16-31)

HASTINGS. *Eighteenth International Congress for Housing and Town Planning.* At White Rock Pavilion, Hastings. Provisional programme: Opening by the Minister of Town and Country Planning; Replanning the Centres of Cities; Housing Technique; Housing Economics. The APRR will be holding an exhibition in the Hastings Museum consisting of plans of the cities of Europe, in conjunction with the Congress. (Sponsor, International Federation for Housing and Town Planning, 13, Suffolk Street, S.W.1.) OCT. 10-12

LONDON. *New Homes for Old.* Exhibition of House Conversion at the Tea Centre, 22, Lower Regent Street, S.W.1. 10.30 a.m.-5.30 p.m. Saturdays, 10.30 a.m.-4.30 p.m. Admission 1s. (Sponsor, HC.) OCT. 10-Nov. 28

Britain Can Make It Exhibition. The DIA is arranging a series of short talks on some of the main sections of the Exhibition which will be delivered by authoritative speakers every day (except Sunday) at 3 p.m. and 7 p.m., in the Lecture Theatre of the Victoria and Albert Museum. The talks will last 30 minutes, followed by 10 minutes' discussion. Admission, 1s. (Sponsor, DIA.) OCT. 10 onwards

Designers Conference. At the Victoria and Albert Museum, Saturday, October 12, 3 to 7 p.m., *Britain Can Make It*, a discussion on the content and significance of the current exhibition; chairman, Allan Walton; speakers, Dudley Ryder, N. Edgar Rawson, and others. Saturday, 5.30 to 7 p.m., *Can Industry Do Without the Designer?* Chairman, John Gloag; speakers, John M. Ryan, Norbert Dutton, and others. Sunday, October 13, 3 to 4.30 p.m., *The Designer in Action*; chairman Lord Sempill; speakers, Misha Black, Dr. Nikolaus Pevsner, F. E. Middleditch, Victor Skellern, W. H. Russell, Alec Hunter, Douglas Scott.

5.30 to 7 p.m., *A Design Brains Trust*; question master, W. D. H. McCullough. The Conference is open to all; the ordinary ticket, 30s., will admit to all sessions and includes buffet tea and reception on Friday evening; a special student's ticket, 15s., admits holder to all sessions on Saturday and Sunday inclusive of buffet tea. (Sponsor, Society of Industrial Artists, 9, Conduit Street, W.1.) OCT. 12-13

Furnishing To-day Exhibition. At the Good Housekeeping Furnishing Studio, 28-30, Grosvenor Gardens, S.W.1. The first of a varied series of small exhibitions to be held in the studio. Its purpose is to show how the ordinary householder can contrive attractive and practical equipment for the home from materials now available, and at very low cost. OCT. 10-Nov. 15

Swiss Planning and Building Exhibition. At the RIBA, 66, Portland Place, W.1. Organized with the co-operation of the foremost architects and associations in Switzerland. Building for work, building for recreation, housing, town and country planning, schools and hospitals are among the subjects covered. Other features are the preservation of old and historic buildings and the countryside, and the replanning of winter sports resorts, for which an extensive programme has already been started. How Switzerland makes the most of her landscape is shown in a series of photographs. OCT. 10-26

Jaromir Krejciar. *Modern Architecture in Czechoslovakia.* Lecture illustrated by slides at Court Room, Caxton Hall, S.W.1. Mr. Krejciar was the architect for the famous Convalescent Home built for the State Health Insurance Authorities at Trencianske Teplice, and is the Winner of the preliminary competition for the rebuilding of the Village of Lidice. At 6.30 p.m. (Sponsor, ABT.) OCT. 16

Festival of St. Luke. 3 p.m., Service at St. Margaret's, Westminster (address by the Bishop of London). 4 p.m., Reception at Central Hall, Westminster. This annual festival of the Visual Arts, organized by the St. Luke's Festival Committee (on which the Council for the Preservation of Rural England is represented), first took place in 1945 and is held for the purpose of stimulating public interest in the relevance of the Fine Arts to everyday life. (Information from the Secretary, CPRE, 4, Hobart Place, S.W.1.) OCT. 18

Office Finance. Informal lecture by two architects and an accountant. At the RIBA, 66, Portland Place, W.1. Speakers: Percy Burnett, A. M. Chitty and Brian Boys (accountant). Chairman, E. D. J. Mathews. (Sponsor, RIBA.) 6.30 p.m. OCT. 22

NEWS

THURSDAY, October 10, 1946
No. 2698 Vol. 104

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarred items which are often no less important.

★ means spare a second for this, it will probably be worth it.

★★ means important news, for reasons which may or may not be obvious.

Any feature marked with more than two stars is very big building news indeed.

★

The first public inquiry under the Trunk Roads Act, 1946, has been held at Bristol University to consider the proposed erection of what would be the LARGEST SUSPENSION BRIDGE IN EUROPE.

The bridge is intended to carry traffic over the River Severn between Beachley and Aust. South Wales is now reached by way of Gloucester or the Aust-Beachley ferry and the proposal to erect the Severn bridge and also one over the River Wye will affect traffic from London, Exeter and the West. Portsmouth and Southampton, and the Midlands.

A further FIFTY-ONE GOVERNMENT FACTORIES have been allocated by the Board of Trade to industrial firms.

They represent an area of about 3 million square feet and when in full production should provide employment for up to 16,000 people. These include 7 factories which have been allocated for a short term only. In all, 256 Government factories with an area of about 54 million square feet have now been allotted to private industry or to use by the Government for training and research centres, disposal depots, etc. Employment will be provided in them for between 300,000 and 400,000 people.

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From AN ARCHITECT'S Commonplace Book

THOUGHTS OF A 19TH-CENTURY SHARAWAG: NEW VITALITY FROM THE PAST. [From *The Art of Building Cities* by Camillo Sitte; translated by Charles T. Stewart (Reinhold Publishing Corporation).] At present there are severe limitations upon art in building in cities. We can no longer create a superior, finished work of art like the Acropolis of Athens. We lack the basic art idea—a universally accepted explanation of reality throbbing in the daily life of the people—that could find expression in such a work. Even as superficial decoration without vital significance, it would still be beyond the reach of nineteenth century materialism. The contemporary city builder must, above all, proceed with modest circumspection, not so much because of a lack of money as because of a lack of a genuine, vital, fundamental approach. If we should now undertake a new development to be both grandiose and picturesque, designed to express and exalt civic life, we should need, in addition to accurate design, the colours of the old masters, to obtain results like theirs. We should have to create curves, recesses, and irregularities by artificial means, or, in other words, to force spontaneity. Is it really possible to plan on paper the kind of effect that was produced by the passage of centuries? Could we actually derive any satisfaction from feigned naïveté and sheer artificiality? Certainly not. These charming effects must be foreworn in an age that no longer builds little by little as circumstances at the site suggest, but instead carries on its construction according to calculations made at the drawing board. . . . The vitality of the glorious old models should inspire us to something other than fruitless imitation. If we seek out the essential quality of this heritage and adapt it to modern conditions we shall be able to plant the seeds of new vitality in seemingly barren soil.

★★

Pending the holding of public inquiries and the setting up of Development Corporations under the New Towns Act, 1946, the Minister of Town and Country Planning has appointed the following committees to advise him on the building of NEW TOWNS AT HEMEL HEMPSTEAD AND HARLOW and the development of a new town at Crawley-Three Bridges.

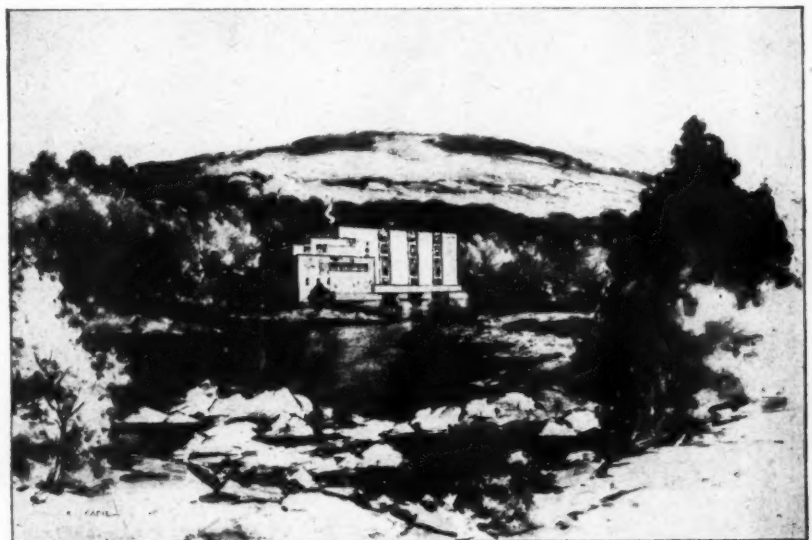
Hemel Hempstead: Lord Reith, G.C.V.O., G.B.E., D.C.L., LL.D. (Chairman). Mr. R. H. Wilson (Vice-Chairman), a partner in the firm of Chartered Accountants, Messrs. Brown, Fleming & Murray, Joint Financial Advisor to the Ministry of Transport. Councillor Horace Dive, Member of the Hemel Hempstead Borough Council and Chairman of the Housing and Town Planning Committee since 1945, Vice-Chairman of the Mid-West Herts Joint Planning Committee. Member of Hemel Hempstead and District Juvenile Advisory Committee; his name was put forward by the Borough of Hemel Hempstead and the Mid-West Herts Joint Planning Committee. Councillor C. T. Higgins, Member of the Acton Borough Council (which is one of the Authorities intending to export population and industry to Hemel Hempstead). Member of the West Middlesex Joint Planning Committee; his name was put forward by the Acton Borough Council. Mr. J. E. McColl, J.P., Barrister-at-law, Alderman on Paddington Borough Council, Member of the London Regional Administration Committee, Member of Metropolitan Boroughs Standing Joint Committee. Lord Morrison, J.P., Chairman of the Law and Parliamentary Committee on the Metropolitan Water Board, Alderman on Tottenham Borough Council, former Member of Wood Green Borough Council and the Middlesex County Council; was for 20 years M.P. for North Tottenham. Alderman W. H. Ryde, Alderman on Willesden Borough Council (which is one of the Authorities intending to export population and industry to Hemel Hempstead); his name was put forward by the Willesden Borough Council. Mr. H. W. Wells, F.S.I., F.A.I., partner in the firm of Chesterton & Sons, former Chief Estates Officer in the Ministry of Town and Country Planning.

Harlow: Sir Ernest Gowers, G.B.E., K.C.B.

(Chairman), Chairman of the Coal Commission, Regional Commissioner for Civil Defence, London Region, 1939-41, Senior Regional Commissioner, 1941-45. Major-General R. P. Pakenham-Walsh, C.B., M.C. (Vice-Chairman), Chief of Staff Eastern Command, 1935-39, Inspector Royal Engineers and Commandant of the School of Military Engineer, 1939. Engineer-in-Chief to Lord Gort with the B.E.F., 1934-40. Controller General of Army Provisions to Eastern Group. Mr. B. G. K. Allsop, J.P., M.C., Chartered Surveyor, Fellow of the Chartered Surveyors' Institution, Fellow of the Auctioneers' Institute, senior partner in the firm of Allsop & Co.; has had considerable experience in the development of London properties and estate management. County Councillor T. H. Joyce, Member of the Edmonton Borough Council (which is one of the Authorities intending to export population and industry to Harlow). Member of the Middlesex County Council; his name was put forward by Edmonton Borough Council. Councillor Mrs. E. A.

Newton, Member of Epping Rural District Council, by which Authority Mrs. Newton's name was put forward, Member of Essex County Council, retired teacher. Alderman A. Reed, A.C.I.L., J.P., Member of Tottenham Borough Council, by whom his name was put forward. Further appointments to this Committee will be made later.

Crawley-Three Bridges: Lt.-Gen. Sir Wilfred Lindsell, G.B.E., K.C.B., D.S.O., M.C. (Chairman). Mr. L. E. Neal (Vice-Chairman), managing director of Daniel Neal & Son Ltd., former Deputy Secretary of the Ministry of Works and Planning, 1942-43, and of the Ministry of Town and Country Planning, 1943-46, Vice-Chairman of the London Regional Planning Administration Committee. Mr. H. A. Benson, C.B.E., Fellow of the Institute of Chartered Accountants, partner in the firm of Cooper Bros. & Co., during the war was for some time Director of Royal Ordnance Factory Accounts in the Ministry of Supply, Controller of Building Materials in the Ministry of Works; Housing Production Officer in



The North of Scotland Hydro-Electric Board has prepared a scheme to use the water-power resources of the Glen Affric-Glen Cannich area in such a way as to leave the famous natural beauties of those Glens unspoiled. Above is a sketch of one of the two proposed generating stations in its natural setting.



Excursion

Once again peace-time travel is possible, and this summer the first post-war AA excursion to Denmark and Sweden took place. Above is a picture taken by Mr. Ian Mac-Callum, one of the party of twenty-five, of some of his

fellow travellers, standing in the shadows of Copenhagen Police Station. Though still eclectic in its classical details, this building by Professor Rasmussen, completed in 1920, is something of a landmark in architectural history.

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the Ministry of Health. Mrs. Douglas Bolton, Member of the London County Council for Hackney since 1934; has served on a number of official and unofficial Local Government Committees on education, hospital services, housing and Town Planning. Miss Caroline Haslett, C.B.E., COMP.L.E.E., Director of the Electrical Association for Women, Member of the Court of Governors of the London School of Economics and of Kings College of Household and Social Science, Director of the Disabled Persons Employment Corporation, Advisor to the Ministry of Labour on women's training, Chairman of the Hosiery Working Party of the Board of Trade; Miss Haslett was born in Crawley. Mrs. Johnson, has had wide experience of Local Government welfare work and of the building industry; during the war worked with the W.V.S., organising ambulance canteens and community feeding centres, and later with the Ministry of Fuel and Power and Ministry of Works. Councillor J. Marshall, J.P., Mayor of Croydon (which is one of the Authorities intending to export population and industry to Crawley-Three Bridges), Chairman of the North-East Surrey Joint Planning Committee for the past six years, Chairman of the Food Control Committee in Croydon since the beginning of the war; his name was put forward by the North-East Surrey Joint Planning Committee. Councillor E. Stanford, O.B.E., Vice-Chairman of the Horsham Rural District Council and the Crawley Parish Council, Appeals Secretary to St. Dunstons, Member of the Executive Committee of the Personal Service League, member of the Chichester Diocesan Council his name was put forward by the Horsham Rural District Council and the Crawley Parish Council.

Mr. Charles Jenkinson: Leeds Corporation has already built THREE THOUSAND SPECIAL DWELLINGS FOR THE AGEING.

Thousands more are planned for by the Corporation, adds Mr. Jenkinson, the chairman of the Leeds Corporation Housing Committee. In a letter to *The Times* he says: It is surprising that so many housing authorities and associations have apparently not recognized, in any practical manner, that housing needs cannot be dealt with except by the systematic provision of five sizes of dwellings—namely, one, two, three, four, and five-bedroomed, with special provision of larger types, as needed, for abnormally large families. The need for special dwellings for the ageing has long been clamant, and in some places substantial commencement has been made to meet it. The Leeds Corporation has already erected 3,000 such dwellings and has thousands more planned for.



The crowds outside the Victoria and Albert Museum at South Kensington indicate the extraordinary popularity of the Britain Can Make It Exhibition, where the size of attendance has astonished the organisers.

UNION OF ARCHITECTS

THE International Conference whose working sessions took place in the Council Chamber of the RIBA was something of an example to the other Conference in Paris. In the course of six meetings it contrived to state its objectives, air the views of nearly every one of its twenty national delegates, provoke differences of opinion, discuss them openly, and arrive at unanimous conclusions on the action to be taken. And this was achieved without the aid of official interpreters, and with no more delay than was occasioned by the immediate translation of French remarks into English, and *vice versa*; the Conference having decided that it was sufficient for its purpose to be bi-lingual rather than polyglot. As important in its way as the official business of the Conference was the opportunity afforded to a number of distinguished architects to meet in London for the first time since the war. The RIBA offered professional, and the British Council social, hospitality; while the British section of the existing International Reunion of Architects was responsible for the programme of discussions.

The recorded conclusions of the Conference—which are to be published—were simple enough. It was decided to call a further congress of the IRA next year. Meanwhile, a newly-constituted Central Committee is empowered to approach architectural organisations in other countries—not at present represented—so as to secure really world-wide representation on a body which will then be known as the International Union of Architects. This body will act as the general assembly, for all international questions in the field of architecture and civic design, of what might be called the cultural and professional aspects of the subject, leaving the economic and governmental functions to other organizations concerned with housing, town planning, or building material production. The new Union will not usurp the function of any existing institutions except those, such as the *Comite Permanente Internationale des Architectes*, whose programme it can entirely cover and thus supersede.

A provisional working party has also been appointed to set up the small beginnings of an International Architectural Bureau in Paris, which will start with a Service of Documentation, and then proceed to build up other professional services which are not at present carried out by existing organisations. The publication of plans and photographs of contemporary building, of an international glossary of technical terms, of comparative studies of standards of planning and layout, of a code governing international architectural competitions, and the assemblage of data for international exhibitions—these are all examples of directions in which the Bureau or International Office may prove useful. Most important of all, it will be able to work under the umbrella of UNESCO, which has undertaken to give certain facilities for this kind of work, if architects all over the world agree to sponsor it. Behind this framework of organization, neutral and uncoloured

as it may appear, there must be a background of ideas. One of these is, evidently, that a philosophy of architecture and its skilled presentation is as important for national as for individual clients. Another is the idea of progress; not so much what Dr. Giedion called in his MARS lecture the New Monumentality, as a new vitality, made evident in the contemporary buildings of all countries and without loss of the interesting differences and variations which regional and national cultures provide. Another must be the ranging alongside kindred organizations, attached to UNO and its commissions (such as those for science and for medicine), of a truly international organ of opinion on matters of architecture and civic design, whether the occasion is a great international exhibition, or the development of colonial towns or backward areas. Hugeness is the extreme to be avoided; for that would lead towards inflexibility and reaction. Everything depends, of course, on the men who man the machine. But it looks as if architects, as a group, have once again demonstrated their ability to design an instrument which is suited to its purpose. We wish its President, Sir Patrick Abercrombie, and its General Secretary, Monsieur Pierre Vago, success and support in their handling of it.



The Architects' Journal

23, Queen Anne's Gate Westminster, S.W.1

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N O T E S

&

T O P I C S

AN ARUP'S FAREWELL TO A CLICHE

While reading in a recent A.J. a description of those interesting flat schemes in Finsbury designed by Tecton and Ove Arup, I seemed to hear pleasantly mysterious background music. Was it perhaps the whirr of fashion's wheel turning at an unusual speed? Or was it the faint thud of the *volte face* being executed by the desperate caption writer?

"Windows," I read, "are placed in the centres of room-walls to give room for curtains and pelmets. . . ." Admirable. But was it last week or only yesterday that to place a window anywhere but adjoining a return wall was to invite the derision of the *avant-garde*?

"Construction," I read, "is on box frame lines . . . avoiding the unsightly projection of columns and beams." Fair enough. But where, oh where, is the non-structural wall, and the free flexible plan which, we used to boast—could it have been only last night?—were among the glories of modern architecture?

As usual Tecton is one jump ahead of us. As usual, Mr. Arup has folded his tent and silently stolen a march on us. Here's Rosebery Avenue then, not for remembrance, but as a herald for the future.

BLOWN LEAVES

Here are a few leaves blown on to my desk by the gale of the world. From the CVE come four useful leaflets describing the origin and aims of the Council, its lecture syllabus and film book and lecture list: from the Central Council for the Care of Churches, a pamphlet on the care of

monumental brasses. [Among the hints is, "don't clean them with metal polish"]: from the Housing Centre, a preliminary hand-out on Cecil Stewart's Village Survey, published in a recent issue of the A.J.: from Poole comes a copy of the *Poole and Dorset Herald* containing an article on Housing headed *Magnificent Aim—Rotten Methods*, in which the author deplores the forcing of everyone into rented houses, the suppression of the small builder, and the subsidising by the community of the good income groups who are perforce, often enough, the tenants of council houses.

Why not, he sensibly suggests, let the spec. builder put up his houses, and let the Council allocate them to persons from a buyer's [as opposed to a renter's] list? I hesitate to enter any controversy on Housing as it is a subject bristling with lethal spikes, but while agreeing in principle with the State control of a housing programme, I still also agree with the *Poole Herald* that the four-to-one Council-to-private enterprise rule is a stupid and arbitrary one, that the £1,200 limit is now a farce—wages and costs having risen sharply since it was imposed—and that Mr. "Ascona" Bevan's recent speech at Bristol to the builders—"I have done my job, now you must build the houses"—was deplorably smug.

From Maude K. Riley's *Art Outlook* comes an appreciative word for Astragal [there is apparently a lull in Maude's battle with Harry "Delirium" Truman's handling through the State Dept. of the German art treasures affair]: from the SIA a programme of the Designers' Conference to be held at the Victoria and Albert Museum on October 12 and 13, and from the Housing Centre the programme of the House Conversion exhibition now on view at the Tea Centre, Lower Regent Street. [At the opening of this show it is said the chairman, Lord Dudley, discovered a picture of his own house labelled: "Houses like this are too large for present-day needs . . ."]

Still thick and fast they come—like the cards in Alice in Wonderland . . . A paternal circular from MOH encourages local authorities to set up classes in Housecraft—a subject which

includes needlework, sanitation, nutrition and first-aid . . . *Smudges*, pocket-sized journal from that fountain-head of squatters, the Antipodes, dedicating its July issue to 'the great roofless Australian public.' Next, an admirable report on post-war church building, prepared at the request of the Ecclesiastical Commissioners, by an advisory committee which includes all our best-known church architects [except perhaps the best of them all, Mr. Comper].

Finally, the March issue of *Plan*, journal of the Arch. SA. Between pretty new grey and white covers—oh, Lund of Humphries and Glory—is an article on Brazil, where the present architectural nuts come from, a gentle criticism of the behaviour of the AA students at the recent Congress, and some examples of students' work. The architectural study reproduced below and entitled *Strawberry Hill Palace* shows that its designer, Gordon Bowyer, fourth year student at the Regent Street Polytechnic, can not only play the Piper but call a pretty expert tune as well.

FRENCH LEAF

The final leaf comes to rest from abroad. On it our Paris Spy reports that he called recently at the Hotel Majestic, one time HQ of the German High Command and now of UNESCO, to take lunch off "Bobby"

Carter, whom he discovered in a bow-tie and the best of spirits conversing beneath a glittering chandelier with an Egyptian and two Australians.

Putting the *hors d'œuvres* before the Carter he learned that our ex-librarian is shortly off to the USA for a few days, and thence to Berlin, but still keeps contact with architecture—since his Dutch secretary is the granddaughter of the man who designed Amsterdam's famous Museum.

Pursuing his researches into French plumbing [this time *both* taps were marked C] our spy records that the graffiti in French public lavatories are exclusively political, and practically never sexual in character. More evidence, in fact, for what we have always suspected, that the French are sexually balanced and politically unbalanced, and the English, from the written evidence, *vice versa* . . .

While on the subject of cartoons, the report ends, Mr. Walter "Colonel-Up-and-Mr.-Down" Goetz was seen coming out of the British Embassy, Mr. David "Mr.-Brown-of-London-Town" Langdon was seen in the Café de la Paix, and Mr. Philip "Daily-Mirror" Zec was glimpsed at Le Bourget. Even funny artists, it seems, go to Paris.

ASTRAGAL



LETTERS

Denis Winston,

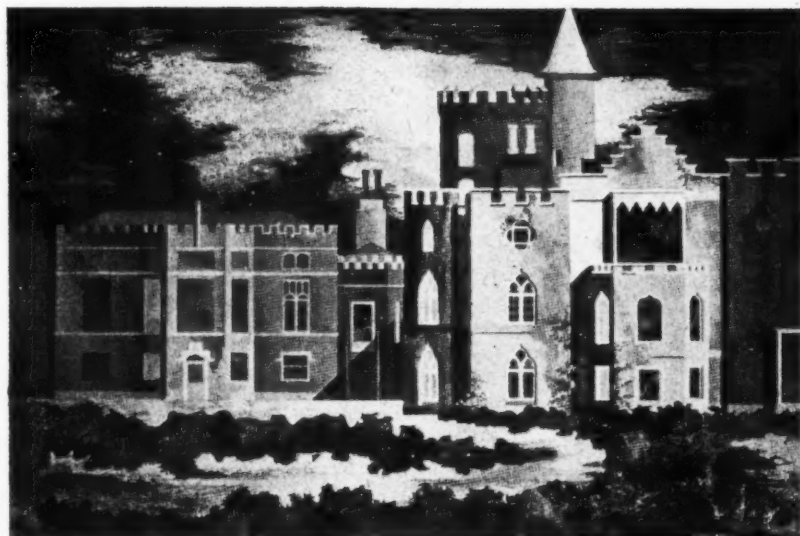
M.A., B.Arch., A.R.I.B.A., M.T.P.I.,
Borough Architect, Southampton

Lionel G. Hemmings

The New Plan for Birkenhead

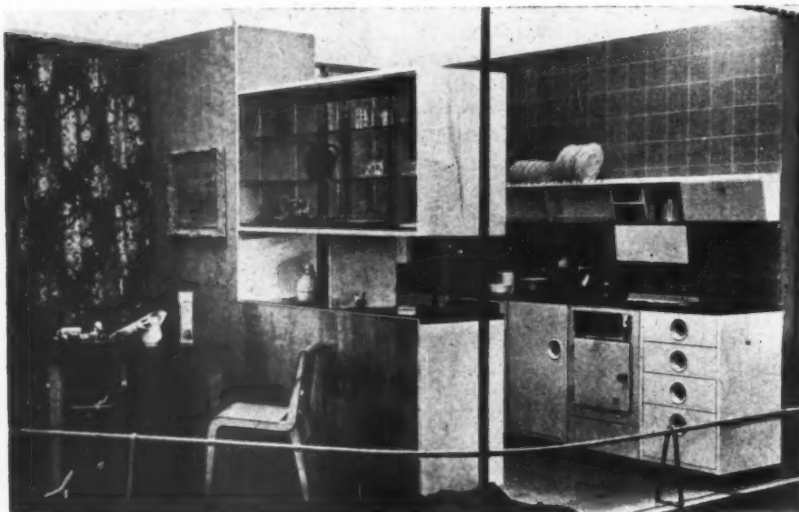
SIR.—Professor Tunnard's letter referring to Frederick Law Olmsted's visit to Birkenhead in 1850 perhaps makes the famous landscape architect's observations on Birkenhead and its park, then just completed by Paxton, of sufficient interest to quote:—

"Birkenhead is the most important suburb of Liverpool, having the same relation to it that Charlestown has to Boston or Brooklyn to New York. When the first line of Liverpool packets was established, there were not half a dozen houses here; it now has a population of many thousands, and is increasing with a rapidity hardly paralleled in the New World. This is greatly owing to the very liberal and enterprising policy of the land-owners, which affords an example that might be profitably followed in the vicinity of many of our own large towns. There are several public squares, and the streets and places are broad, and well paved and lighted. A considerable part of the town has been built with reference to general effect, from the plans and under the direction of a talented architect, Gillespie Graham. . . . The gateway (to the park), which is about a mile and a half from the ferry, is a great, massive block of handsome Ionic architecture. . . . Walking a short distance up an avenue, we passed through another light iron gate into a thick, luxuriant and diversified garden. Five minutes of admiration, and a few more spent in studying the manner in which art had been employed to obtain from nature so much beauty, and I was ready to admit that in democratic America there was nothing to be thought of as comparable with this People's Garden. Indeed, gardening had here reached a perfection that I had never before dreamed of. I cannot undertake to describe the effect of so much taste and skill as had evidently been employed; I will only tell you, that



Architectural study of Strawberry Hill Palace by Gordon Bowyer, fourth year student at the Regent Street Polytechnic School of Architecture. From *Plan*. See Astragal's note.

KITCHEN DESIGN AT THE V & A



Above are some of the designs for kitchens and their equipment on view at the Britain Can Make It Exhibition. Top, a kitchen with dining recess for a small modern house designed by Frederick MacManus, F.R.I.B.A.; sink, draining boards and table tops are in white porcelain enamel; other enamel is in dove grey and white; the dining recess which opens onto a balcony is papered in grey with a small white pattern; chair seats are upholstered in red. Centre, an electric cooker designed by Milner Gray and W. Vaughan. Below, an HMV electric kettle.

we passed by winding paths and over acres and acres, with a constant varying surface, where on all sides were growing every variety of shrubs and flowers, with more than natural grace, all set in borders of greenest, closest turf, and all kept with most consummate neatness. . . . and all this magnificent pleasure-ground is entirely, unreservedly, and for ever the people's own. The poorest British peasant is as free to enjoy it in all its parts as the British queen. . . ."

After his visit to England Olmsted went home to create his magnificent series of parks and parkway systems in New York, Boston, Chicago, Washington and half the cities of the new world.

It is good to be reminded that we, as a nation, once led the way in this matter of creating a humane civic environment, though those who knew Birkenhead before the late war will marvel how successfully it disguised its early aspirations—as if ashamed of its youthful aestheticism; but seaminess is no longer taboo, even in the Fourth Form, and to Professor Sir Charles Reilly and N. J. Aslan, who have been called to carry on the work of Graham and Paxton, Olmsted has a message of good cheer if we apply to the present day his own words of nearly 100 years ago; speaking of the general development of Birkenhead, then in full progress, he says:—

" . . . The consequence of all these sorts of things is, that all about the town lands, which a few years ago were almost worthless wastes, have become of priceless value; where no sound was heard but the bleating of goats . . . there is now the hasty click and clatter of many hundred busy trowels and hammers. You may drive through wide and thronged streets of stately edifices, where were only a few scattered huts, surrounded by quagmires. Docks of unequalled size and grandeur are building, and a forest of masts grows along the shore; and there is no doubt that this young town is to be not only remarkable as a most agreeable and healthy place of residence, but that it will soon be distinguished for extensive and profitable commerce. It seems to me to be the only town I ever saw that has been really built at all in accordance with the advanced science, taste and enterprising spirit that are supposed to distinguish the nineteenth century. . . ."

May Birkenhead profit by her own example.

Southampton

DENIS WINSTON,
Borough Architect

Architectural Education

SIR,—The *Daily Mirror* recently devoted a front page column to a description of the congestion at a well known London institute amongst would-be students seeking to enrol for evening classes. At the forefront of the list of subjects for which there was great demand and all-too-little supply, was Architecture. Some hundreds of young student architects, most of them recently returned from the Forces, were turned away by the enrolling staff who were obviously coping with as many applicants as they could, but whose resources were nevertheless overwhelmed.

Surely this state of affairs at the beginning of the first school year after large scale demobilization began, could have been anticipated months ago and steps taken to avert it. Constantly one is hearing of architectural students whose training was interrupted by war service, who, on their return, have found the Architectural Schools cannot accept them because they are full up.

Perhaps the authorities responsible for education within the profession have an answer to this problem. Many students are eagerly awaiting one.

London

LIONEL G. HEMMINGS

HOUSING STATISTICS

A MONTHLY COMMENTARY ON THE OFFICIAL RETURNS—8

by

Ian Bowen

By the end of August there were in Great Britain 24,957 Permanent and 47,176 Temporary houses completed. In addition, space for about 126,101 family units was found by repair of unoccupied war-damaged houses, by conversions and adaptations, and by the building of emergency huts. Since the end of July there was an increase of 4,930 Permanent and 6,751 Temporary houses completed, and for 6,145 more family units¹ space was otherwise provided.

In the summer months, therefore, completions have proceeded at the following rates:—

TABLE I
Monthly Rate of Provision of New Housing in Great Britain, June to August, 1946.

	June	July	August
Permanent Housing—			
Local Authority schemes ..	1,120	1,471	1,807
Private enterprise ..	2,091	2,966	2,750*
War-damaged houses rebuilt ..	326	672	364
Total permanent housing ..	3,537	5,109	4,930
Temporary housing ..	4,502	5,286	6,751
Total ..	8,039	10,395	11,681

* Includes 4 houses built by Housing Associations.

The total housing provided in a month thus showed an increase, though not so sharp an increase in August as in July. The whole of the increase, moreover, was due to the accelerated completions of temporary houses.

The number of permanent houses completed in August was nearly 200 less than the number completed in July. This was due to the fall in private enterprise completions of houses built under licence, and to the even bigger fall in the number of war-damaged houses re-built. These two falls together more than offset the increase in completions under the local authority schemes. This was not due to any decline in the size of the war-damaged house rebuilding programme, and the relapse in completions under this head will presumably not continue indefinitely, unless there are special delays in progress. Nor is there any obvious reason why monthly completions of private enterprise houses should yet decline in numbers; although the numbers beginning under this scheme have been checked, the rate of completions is still well below the rate at which new work is beginning.

The August results for permanent housing must be admitted to be disappointing; those for temporary housing to be much more satisfactory. It is scarcely surprising that the weekly rate of completions of the once-despised temporary housing programme now gets its full share of publicity.

HOUSES UNDER CONSTRUCTION AND BEGUN

At the end of August, there were 129,800 permanent houses under construction in England and Wales, and about 20,400 in Scotland, or 150,200 in all. This was 15,660 more than were under construction at the end of July, and, since 4,930 were finished in August, some 20,600 must have been begun in that month. In addition, 7,462 temporary houses were begun in August. The figures for houses begun in each month may be set out as follows:—

¹ This is the figure given in the Digest. The figure given for this item in the Ministry of Health summary is incorrect.

TABLE II

Houses on which Work Began, May-August, 1946. (Figures to nearest 100)

	May	June	July	August
Permanent Housing—				
Local Authority schemes ..	14,100	12,600	15,000	15,400
Private enterprise ² ..	6,500	4,700	4,600	4,000
Re-building of war-damaged ..	2,100	1,300	2,400	1,300
Total permanent housing ..	22,700	18,600	22,000	20,700
Temporary housing ..	7,500	6,600	7,600	7,500
Total ..	30,200	25,200	29,600	28,200

The table shows very clearly how the local authority programme stayed well ahead of private enterprise, during August. There were actually less permanent houses begun in August than in July; it therefore seems that the 4 to 1 ratio of local authority to private enterprise has not yet resulted in a net increase in the number of houses begun.

CUMULATIVE FIGURES OF HOUSES BEGUN AND FINISHED

The diagrams below show the cumulative figures of houses begun and finished each month, for the local authority and private enterprise schemes. The difference in the two diagrams is very striking. Private enterprise has begun a moderate programme steadily, but

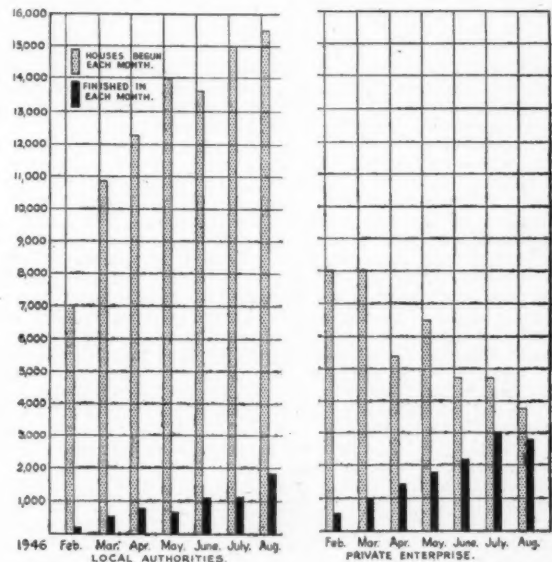


Diagram 1. New permanent houses begun and finished each month.

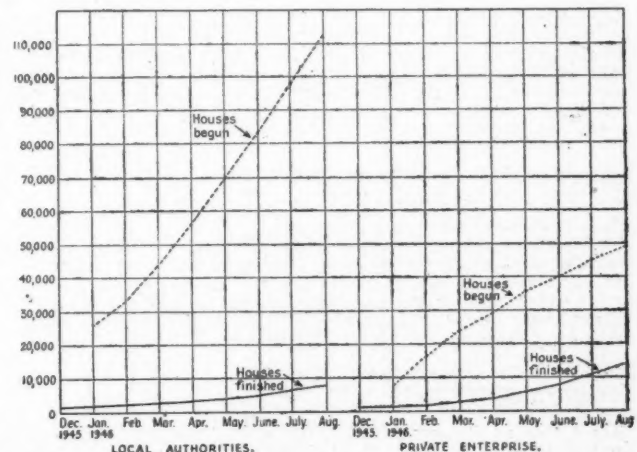


Diagram II. New permanent houses begun and finished at the end of each month—cumulative.

² Inclusive of Housing Associations.

in later months, owing to a change in policy the curve for commencements has flattened downwards. The local authority schemes have been accelerated at a steady rate each month, while completions have advanced very slowly.

Two obvious points emerge from the diagrams. The private enterprise schemes are no longer proceeding at a rate that will permit of advantages accruing to any increasing programme—the effects of repetition work, constant employment of teams, etc. This is shown by the convexity of the curve. Secondly, even the present local authority programme is clearly going to take a year or more to complete.

Diagrams of this sort can be studied by measuring the distance between the curves horizontally (time of completion), and vertically (houses under construction at any given time). On the present showing private enterprise houses are taking 6 months to complete, though the gap will widen, while local authority houses seem likely to take anything over 12 months. This "time of completion" is simply the time gap between numbers of houses started and numbers finished. Supposing that this gap were reduced to 9 months for the local authority schemes, there would be 113,000 houses finished under these schemes (i.e., the cumulative number begun by August, 1946), at the end of May, 1947.

What kind of target is it hoped to attain in 1947? 75,000 in the first five months of that year would seem to be, on the above argument, a very optimistic figure. Can a figure of 250,000 be reached for the year as a whole?

RATE OF COMPLETION AND PROGRAMMING

There is a confusion in some current discussions of house programmes as to the importance or otherwise of the "average time taken to produce a house." This phrase may be taken to mean two quite different things; either the total man-hours needed to erect the house on the site, or, secondly, the average time that elapses between beginning 100 houses and finishing them.

To arrive at the first figure, it is necessary to divide the total labour time spent on the site by the number of houses finished (plus "house-equivalents" of any partially completed houses). This is a useful measure of efficiency, though it is itself vitiated by the complication of how many off-site hours should be included where non-traditional methods are employed.

The second figure is not directly relevant to efficiency of work on the site. It may be as "efficient" to start all the houses on a site and finish them simultaneously nine months later, as to build them in batches of 10's or 20's, using the same number of man-hours for the job as a whole, but having many fewer houses under construction at a time than with the first method. But the lag between starting and finishing is of great importance to the prospective occupants. The more the programme can be planned on the batch method, without a loss of "man-hours" efficiency, the quicker houses will be ready for occupation; thus it is especially important to close the gap between completions and commencements in a time, such as now, of housing shortage.

The turning point in the cumulative curve therefore needs to be watched for very carefully. The present scheme of finishing 30,000 houses quickly may boost up completions, but at what cost to earlier stages of production it is not possible to predict. Not until completions are proceeding at 10,000 a month or more, will the cumulative curves show at all a healthy tendency, and the completion rate be even moderately satisfactory.

TEMPORARY HOUSE PROGRAMME

The leap forward in completions for this programme does not, unfortunately, alter the fact that, at the end of August, the programme was still less than $\frac{1}{2}$ finished. The labour position in England and Wales remained about constant (32,000 employed), but rose substantially in Scotland, from 5,300 at the end of July to 6,800 a month later. From figures given out by Ministers recently it would appear that the acceleration in this programme has continued during September.

There is every sign that, before this programme is completed, an organisation will have been built up which has outgrown its teething, and indeed adolescent, troubles, teams of workers will have been trained in the use of pre-fabrication, distributing depôts will be working like clockwork, and administrative and supply routine will be in full swing. Is this all going to be dissipated at the end of the scheme? Or cannot some section of the housing programme be taken away from the sacred cows of Britain, the local authorities?

LABOUR SUPPLY

There was an increase of 21,500 men employed on permanent housing during August, as compared with an increase of only 14,200 in July. This is perhaps the best single item of news in the August Housing Returns.

Operatives employed in the industry as a whole number 913,000 in both July and August, and the numbers in the industry, including the unemployed, remained unchanged. The net influx to the industry has thus stopped. Since there are now more men employed in the

industry than before the war, and so far less than $\frac{1}{2}$ of the houses being built, it cannot be said that it is starved of man-power. Many are still absorbed on repairs, but those on war-damage repairs are falling in numbers; there has also been a fall in the numbers engaged on factories, public utilities, commercial, agricultural and other premises.

HOUSING ASSOCIATIONS

New dwellings erected by Housing Associations are shown separately in the Ministry of Health's returns for the first time; hitherto they were included in the figures for dwellings erected by private builders under licence. By the end of August, 30 had been completed, and 383 more were under construction. Altogether 707 more houses had been licensed or officially "approved." In Scotland the activities of the Special Housing Association there plays a much bigger part; 315 houses have been finished, 2,813 more are under construction, and altogether 7,371 tenders have been approved. (For Scotland the Housing Association figures are included with those for the local authorities, an example of the non-comparability of English and Scottish statistics.)

SITE DEVELOPMENT

It is always difficult to gauge the site development position, as fully developed sites are continually being found, and make forecasts of site availability extremely hazardous. Nevertheless, it is worth noting that completion of developments of sites in England and Wales are proceeding at the rate of 6,200 a month, which is well below the rate at which houses are now beginning. When the present stock of sites is used up, some difficulty may be anticipated here, unless plans are laid well ahead. It does not seem logical that work is commencing on sites at only 3,700 a month; in other words the programme is tailing off, and this discrepancy cannot indefinitely continue.

NON-TRADITIONAL HOUSES

Of 10,785 non-traditional houses under construction at the end of August, 667 have already been completed. Altogether 27,745 tenders have been approved for these new types of housing. Nearly half the houses so far approved are B.I.S.F.; Easiform and Orbit are the next biggest contributors with over 3,000 houses each, Bell Levett, Hill, and Howard being so far (numerically speaking) the next most important types.

BUILDING MATERIALS

The September issue of the Monthly Digest of Statistics shows stocks of building materials for the first time, a most useful addition. Figures are also given for several new items, both of materials and of components and fittings. The complete list now includes building bricks, cement, asbestos cement sheeting, roofing slates, damp proof course slates, roofing felt, clay tiles, concrete tiles, plaster-board, plaster, gypsum, steel windows and doors, aluminium windows and doors, cookers, wash boilers, water heaters, gas and electric meters, baths, and rainwater goods. Stocks' figures appear for eleven out of these twenty items. No figures of programmes or of requirements are given, but this is not the moment to cavil at such a notable gift horse.

There are still some minor statistical anomalies in the series; for instance, production figures for bricks are given for calendar months at all times except for the period April to July, 1946—for these four months the figures relate to four- or five-week periods. Roughly the position appears to be as follows: total production March-July inclusive was 1,279 million bricks, and over the same period stocks fell by 496 millions. Consumption, therefore, must have been of the order of 1,775 million bricks in five months, an average of 355 millions a month. In August, however, stocks actually rose by 48 millions, and consumption of British-made building bricks must have been less than 300 millions. This was, presumably, due to the effect of importing Belgian bricks to ease the situation.

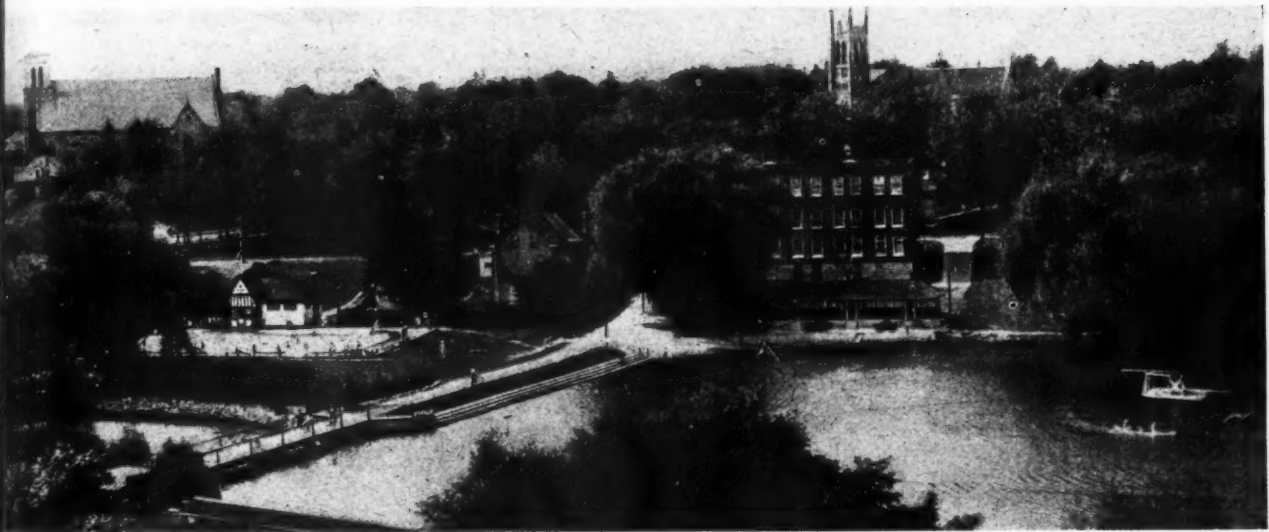
Roofing slates are being produced at less than half the pre-war rate, and clay and concrete tiles at less than a third. Stocks of these commodities are falling. The figures for damp proof course slates are even more sensational. Here stocks fell from 8,125 thousand at the end of July, 1945, to 311 thousand at the end of July, 1946. Stocks represent less than a week's supply at the apparent average rate of use, and the position here must be acute.

Production of steel windows and doors doubled between mid-1945 and mid-1946, and so did stocks of this commodity. Production of gas cookers rose from 10,300 a month in July, 1945, to 54,000 a month in August, 1946, but presumably demand is not yet being satisfied. Baths were being produced at 23,700 a month in August, 1946, a number less than equal to the total number of new houses begun in that month, but more than double the total number finished. With suitably arranged distribution priorities there should be enough baths to go round for new housing, though not to meet replacement demands.

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PHYSICAL PLANNING SUPPLEMENT

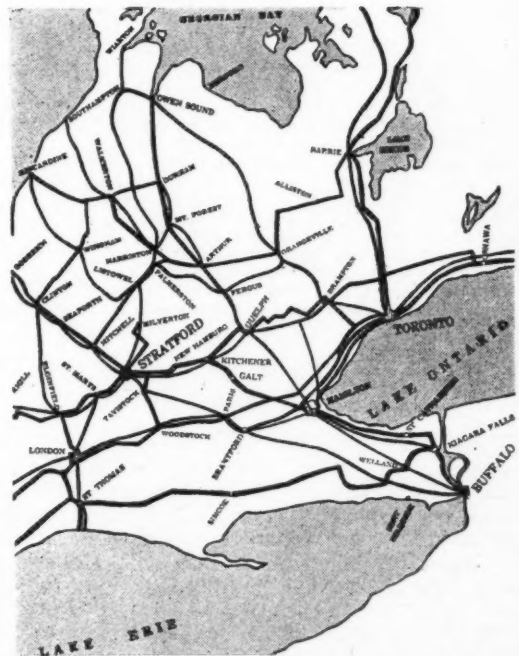


STRATFORD, ONTARIO

PROPOSALS OF THE PLANNING AND DEVELOPMENT COUNCIL

The Planning and Development Council of Stratford, Ontario, has recently published a Master Plan for the development of the city, which has been prepared by Dr. E. G. Faludi, Town Planning Consultant, and is reviewed below. This Canadian city is the county town of the rich agricultural county of Perth, and is famous for a beautiful park system unique among places of its size: a small part of this system lying within one hundred yards of the city's main traffic intersection is illustrated above. A healthy industrial backing is present in over fifty manufacturing plants of great variety, the leading industry being the locomotive repair shops of the Canadian National Railways. The factory buildings are well spaced out and help to add to the open character of the city.

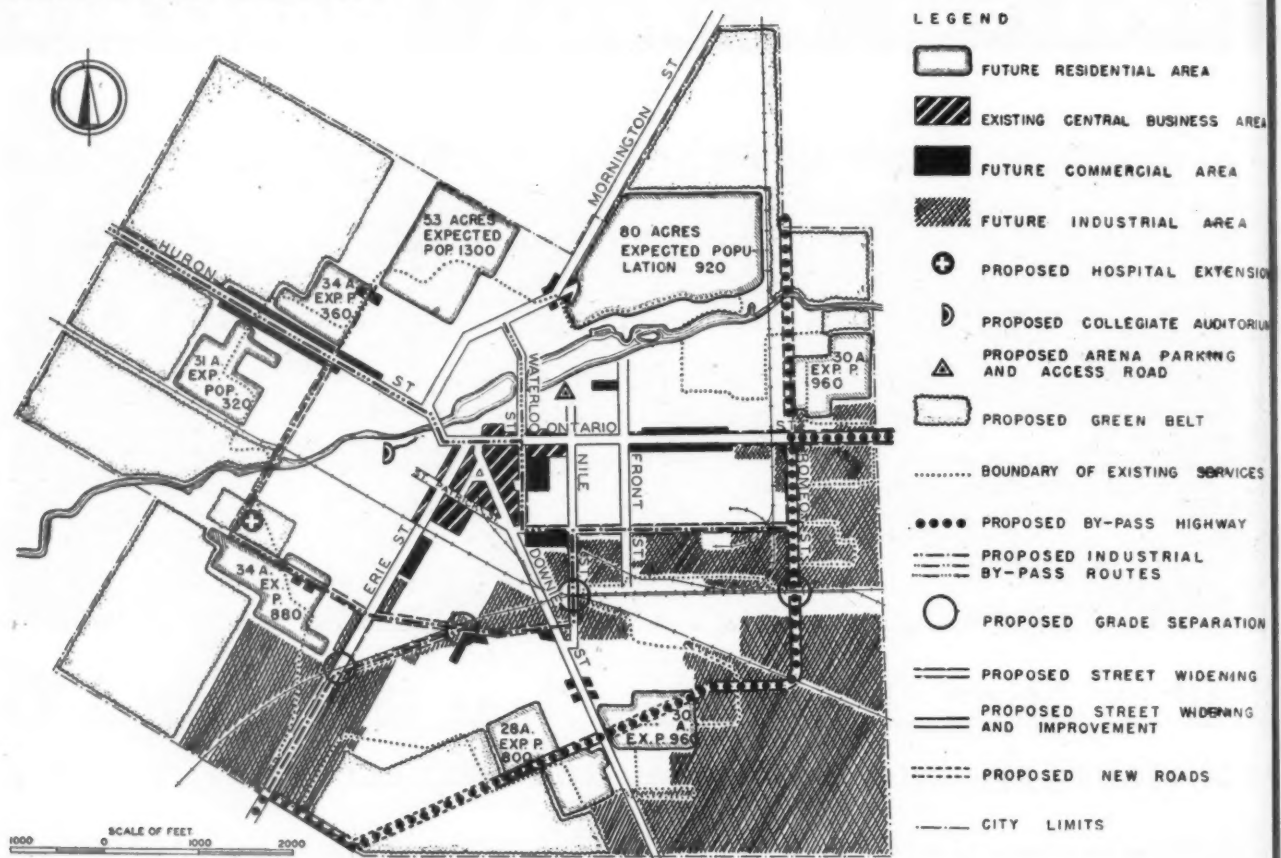
Stratford in Ontario is an industrial city of some 18,000 persons, and owing to its slow growth over many years, it does not present the same problems to the planner as those other cities whose growth has been both rapid and extensive. The railways are already well sited in relation to industry and housing, and there are good highways radiating from the city centre. The river constitutes an attractive amenity, and the commercial centre is pleasant. Stratford has earned the picturesque cognomen, *The Park City of Canada*. Bordering the lake-like Avon River, the park system stretches for two miles across the centre of the city. Winding motor roads and footpaths, rustic bridges, majestic willows along the water's edge, graceful swans, islands, flowers, shady groves, a submarine-lighted swimming pool, a sand beach, canoes, the Shakespearean Garden, the shell band-stand, a pavilion, picnic facilities and acres of playing fields—all combine to make Stratford a city of surpassing beauty and a favourite meeting place. The fact that the extensive parklands cut across the city makes the park easy of access by nearly everybody. On summer evenings many hundreds habitually make for the park—to stroll, to motor, to canoe, to swim, to play softball, tennis or bowls, to dance or to listen to a band concert. Devoid of major planning problems and forming



Above, a sketch map indicating the relationship of Stratford to the prosperous concentration of industrial cities in Ontario; it is also the county town of the rich agricultural county of Perth.

part of the most prosperous concentration of industrial cities in Canada, the Planning and Development Council considers that the city can grow to a population of 25,000 by 1975, and still retain its pleasant character.

MASTER PLAN



The Master Plan for Stratford, Ontario, indicates the basic lines of development which the Planning and Development Council considers that it may suitably follow, and it is suggested that the city can grow from a present population of 18,000 to 25,000 by 1975, and keep all the advantages that it now has—and gain many more. A scientific analysis of the expectations and needs of the city has been made, and upon this the proposals have been built up, the most important improvements consisting of the by-passing of the central area, new shopping and commercial areas to serve the various districts, and the allocation of suitable areas for expansion.

and to this end a Master Plan has been produced which lays down the main lines of development.

regional projects

The establishment of a Planning Area of 60 square miles under the Planning Act of 1946 is recommended, which will enable any haphazard growth of the city to be prevented, and control to be instituted over development outside the city limits. Certain areas of land along Hyslop Creek and east of the city around the Little Lakes are to be acquired for regional recreational purposes and to encourage tourist traffic. Additionally, under this heading, is the acquisition of land for an airport and helicopter landing field about two miles south-west of the city on Provincial Highway No. 7.

public improvements

The provision of a bypass road in the south-east of the city to divert traffic from Ontario Street to Erie Street without passing through the business centre, and the designation and widening of industrial bypass routes to divert traffic from the industrial areas to the highways for the same purpose, are major traffic proposals in the Plan, with the improvement

of certain downtown distribution routes to divert traffic from the City Hall area. Four grade separations in the form of underpasses, in collaboration with the Canadian National Railway, are proposed for the improvement of traffic flow. Additional accommodation for the parking of cars is another feature of the Plan. Various improvements are suggested in relation to buildings; amongst the most important are an extension to the Collegiate, including an auditorium as a cultural centre, and an inter-city bus terminal.

private improvements

The Master Plan gives due consideration to the extension of the city through private enterprise, 350 acres of vacant land being designated for the housing of the anticipated population at a density of 4 houses to the acre—a generous density compared with our own standards. There is also an area of residential blight which is scheduled for redevelopment under the National Housing Act. Farm or residential use will also be allowed on a greenbelt area of 715 acres of vacant land within the city limits. In order to make better provision for the needs of the community, and in particular the new housing areas, several small commercial units have been scheduled which can be located on the Plan. Legislation to protect residential areas and to guide land uses is recommended in the form of a Zoning Bylaw.

To provide for the employment of the future population, additional areas of vacant land have been set aside for industrial use, together with the conversion of declining residential areas to industry. It is also proposed to designate frontages along the main routes for commercial and light manufacturing purposes.

The Master Plan for Stratford aims at reducing the *planning vocabulary* to simple terms of human advantage, which the average citizen can understand and which will enable him

to appreciate more fully the improvements to his daily surroundings which can be made. This is an important point—the public relations side of planning—which when ignored has led to the abandonment of good schemes in Canada merely through the lack of public interest and

support. The development of Planning Commissions is, however, gaining ground in Canada, and the chances of success have been improved by the representative nature of the members, and the educational programmes which have been undertaken.

THE MODERN JERICO

In the film *Jericho* it was the walls of the Prison of Amiens which fell as the RAF blasted them with HE bombs just as the walls of the biblical town fell to the avenging angel's trumpet call. Now the walls of modern Jericho are being built up again, the first major project consisting of the redevelopment of the Cathedral and station square.

Amiens, the capital of Picardy, surrounded by market gardens irrigated by the 15 branches of the slow flowing Somme river, and famous for its cathedral known as *The Bible of Amiens*, has an

ambitious reconstruction plan which will class it among the most progressive cities of Europe. This old picturesque town, victim of two wars, is to be rebuilt on the most modern lines, and the first district to be dealt with is the station and adjoining Square. The station is in many ways the heart of Amiens for the town is the junction of innumerable international rail and road communication lines. More than ten roads with their bus services converge on the station square; boat trains for England and others bound for Belgium, Holland and Germany, pass through the town, and it is through the station that Amiens distributes its market garden produce, the livelihood of its population.

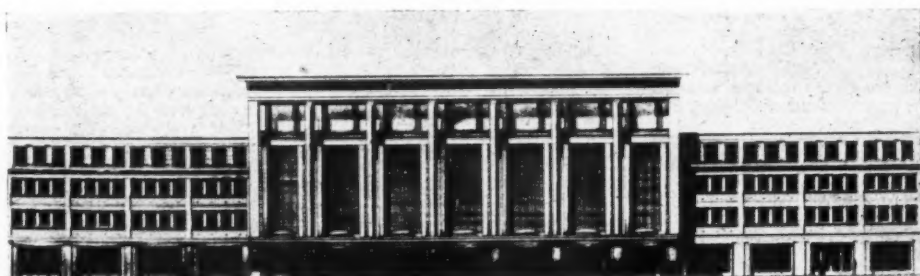
Architect Auguste Perret was

first commissioned by the Ministry of Reconstruction to rebuild the square. The French National Railways later asked him to design a new station. This has given him the chance to treat the two projects as a whole and create an architectural unit comparable to the *ensembles* of the 18th and 19th centuries. Since Amiens is also an important postal sorting as well as passenger and goods centre, it has been judged essential to provide space for the administrative services in the station buildings.

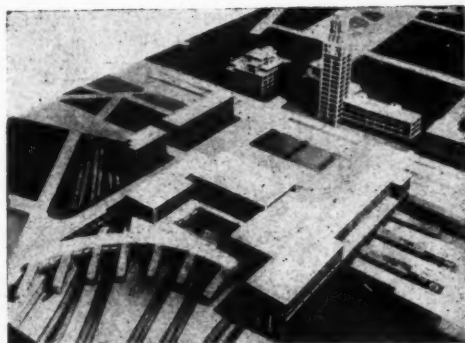
The original station square (Place Auguste Fiquet) sloped steeply down to the level of the railway lines. The new one will be raised to the level of the roads, such as Rue Noyan (the commercial centre), the famous rue des

3 Cailloux (once a picturesque feature of the town), and the rue Cormont (leading to the cathedral) converging on it. Traffic on these roads, however, unless directed on the station, will run under the square by tunnel, the construction of which is made easy by the raising of the level. Traffic on the station square will thus not be hindered. A ramp will lead down from the square to the station and six staircases will give direct access to the different platforms. The entrance to the station will be under cover of a kind of immense *marquise* supported by columns. The monotony of the concrete will be broken by stippling, and stone incrustation alternating with translucent glass blocks.

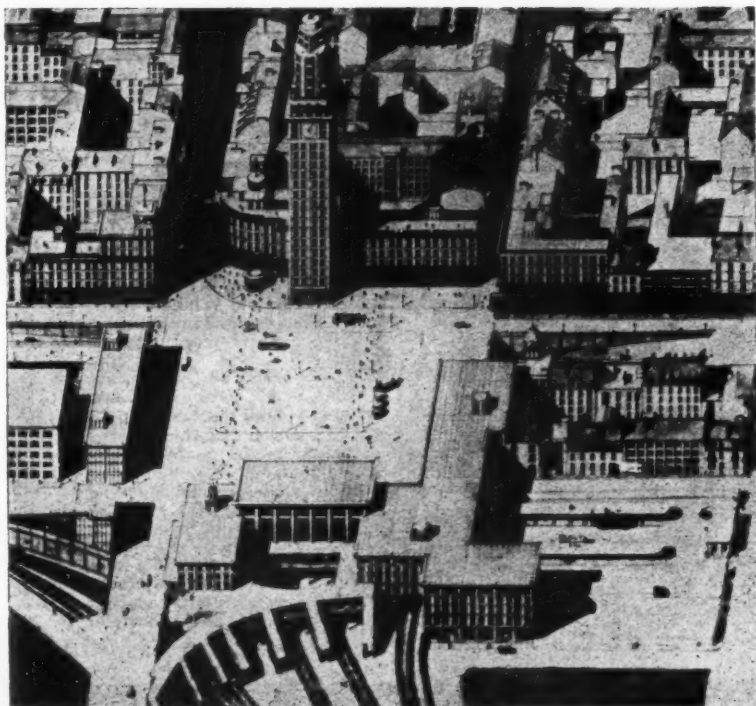
The main building includes a spacious passenger hall, 84 ft. long, 45 ft. wide, and 55 ft. high, with ticket offices, libraries, book stalls and information bureaux. The wings, lower than the main building, are to be three storeys high. On the ground floor of the right wing are to be the restaurant and a snack bar—both served by the same kitchen. The left wing ground floor contains cloakrooms and luggage offices. Upper storeys will be reserved for the railway and postal administrative services as well as living quarters for the station masters, and luggage will be loaded



PLACE DE LA GARE



Left, a view of the proposals for the redevelopment of the Place de la Gare or Place Alphonse Piquet in Amiens, with an elevation of the proposed new railway station and a view of the model above. The project is a joint one, the rebuilding of the Square being commissioned by the Ministry of Reconstruction and the station by the French National Railways.



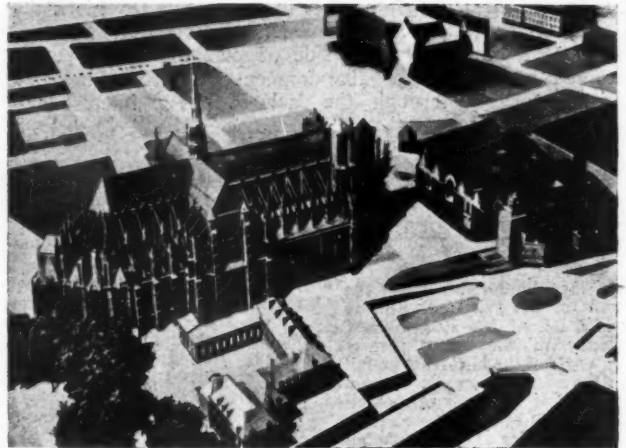
directly on to the roofs of buses from a platform which is, at the same time, on the level of the passenger platforms and the bus tops.

Buildings which surround the square are to be reserved for the former café and shop owners who have been bombed out. Architectural unity has been maintained by using a single measurement of 6 metres 40 centimetres as the basis of construction. That is the distance from

the centre of the one pillar to the centre of the adjoining one and for all distances in recess or projection.

To crown the project a twenty-four storey skyscraper tower for offices and flats will be built at the corner of rue Noyon. An express lift and a special water pumping system will be installed. This tower will make another landmark on the Picardy horizon rivaling in height, if not in beauty, the famous cathedral

The model of the proposed redevelopment of the Place de la Cathédrale, Amiens, which is another project under consideration in the rebuilding of the city—victim of two wars. Amiens is one of a number of heavily-damaged towns for which rebuilding projects have been initiated by the Ministry of Reconstruction.



SUFFOLK PLANNING SURVEY

Sir Patrick Abercrombie writes in the Foreword of the recently published *Suffolk Planning Survey*, by T. B. Oxenbury, County Planning Officer—"the production of Surveys and their reproduction in clear and attractive form is one of the healthy signs of the planning movement today." Comprehensive, useful to geographers and invaluable to the schools of the county, this presentation of the survey material collected for the County Plan forms a companion to the Interim Report, which was reviewed in the *Planner's Scrapbook* in the *Journal* for April 25, 1946.

Upon the basis of a thorough and intelligent survey, depends the success of a planning scheme

and this type of work is generally regarded with so little interest by the public compared to the actual proposals, that as a result planners are apt to produce such information in a form which only they themselves can understand. No doubt lack of support and funds, has often prevented publication, and thus the incentive to present survey material in an attractive manner. The Suffolk Planning Survey comprises a general picture of the county, covering most of its essential elements apart from historical growth, which could well have been included to show the general trend of the area, and the historical reason for things, if only to complete the picture in a book which will be invaluable to the schools of Suffolk.

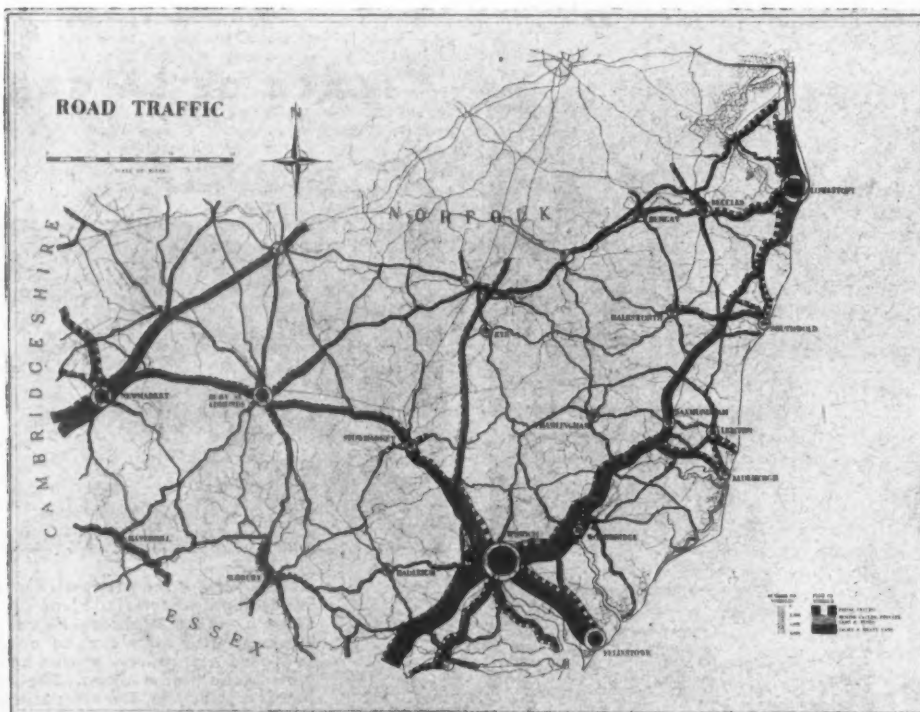
The physical background, for the planning of Suffolk is presented in the form of geological

and contour maps and, linking up with these, a catchment areas and drainage map showing also those areas of the county which would be liable to flood at normal spring tides but for protective defence works. A topographical map provides a great deal of information on the type of country and the possibilities for sport and recreation, such as the beaches, natural habitat of interesting flora and fauna, and principal architectural and historic features. Urban and rural industrial maps relate to the recreational centres map, and again to population distribution and trends maps and those dealing with agricultural matters.

The intensity of road traffic is divided into three classes—pedal cycles; motor cycles, private cars and buses; and light and heavy vans. The latter map demonstrates the relative

importance of various routes and indicates up to a point the spheres of influence of the market towns, but accessibility by bus is not shown and could well have been included on the rail communications and seaports map, in view of the importance of bus routes in the planning of rural areas.

The problem of water supply in rural areas is demonstrated forcibly on the public services map, and constitutes one of the major problems in connection with planning a predominantly rural county like Suffolk. Finally, a map covering schools and attendance completes the survey material made available. The maps are particularly clear to read and are aided in this respect by the use of colour and a short description with each explaining the relation of the information on the map to the work of replanning.



ROAD TRAFFIC

The survey map, Road Traffic, from the recently published *Suffolk Planning Survey*, is one example from the many valuable maps included in this work. The map demonstrates clearly the relative importance of various routes and indicates up to a point the spheres of influence of the market towns over the surrounding countryside. The accessibility or otherwise of a centre may mean its acceptance or rejection as a likely reception area for industrial expansion.



View from the South on the garden side.

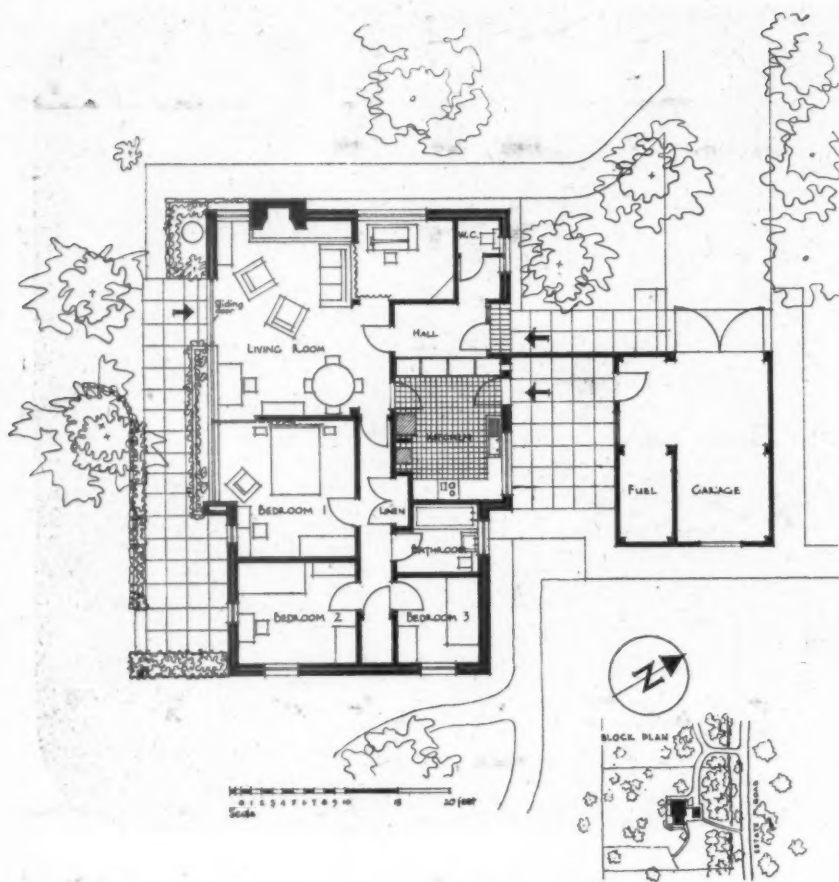
ARCHITECT'S OWN HOUSE AT STUDHAM BY PETER DUNHAM

The house was built during the winter of 1939-40, and is situated in very picturesque and wild woodland of birch trees and bracken at Studham, near Dunstable, Beds. The house is built of normal traditional materials, as follows:—
Foundations: Concrete. **Walls:**

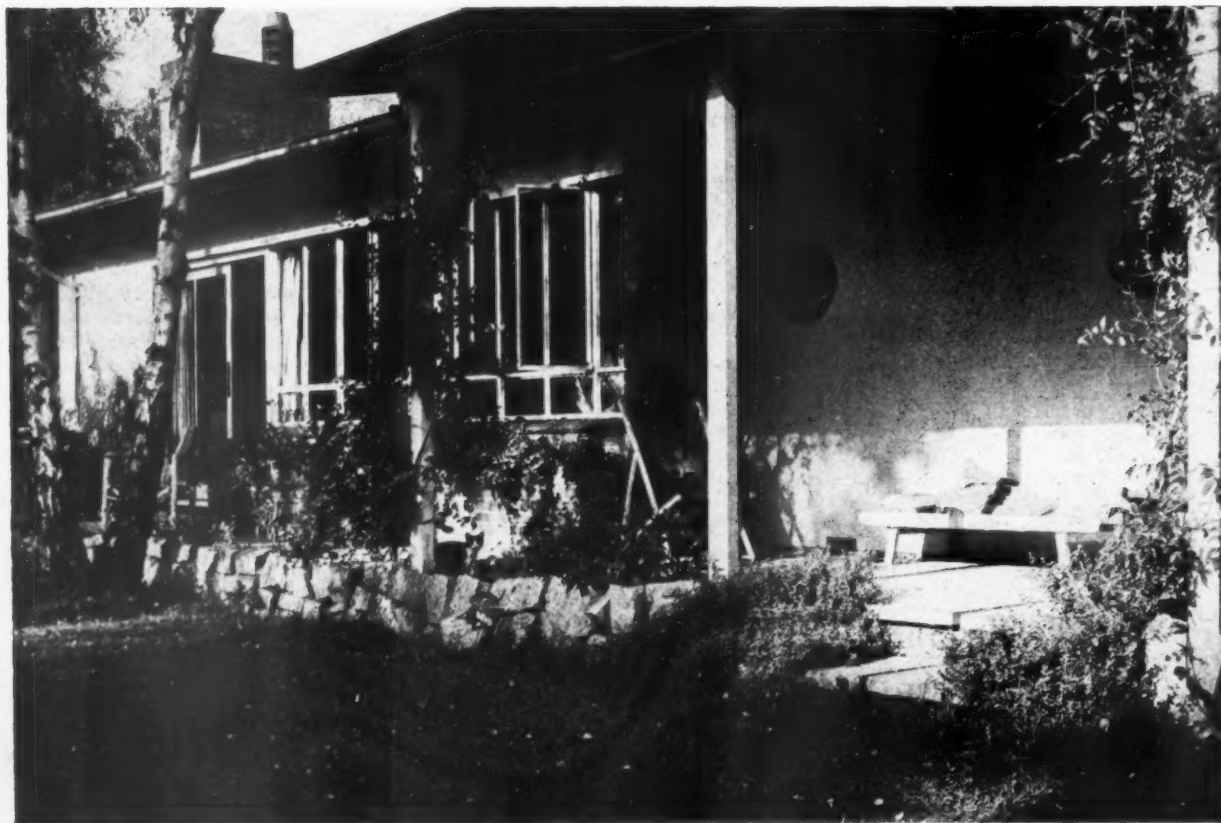
External, 11 in. cavity brickwork; internal partitions, 4 in. brickwork. **Floors:** Kitchen, red quarry tiles; all other floors, deal boarding on joists. **Roof:** 1 in. boarding covered with 3-ply bituminous felt, the top layer being of grey-green rough surface. **Wall Finishes:**

Hall, passages and parts of Living Room are fairface brickwork distempered; other walls are plastered and distempered or painted, with glazed tiling in Kitchen and Bathroom. **Ceilings:** $\frac{1}{2}$ in. wall-board. **Fireplace:** The only fireplace in the Living Room is built in local brown hard sandfaced bricks with York stone shelves, finished with rough tooled texture on front edges. **Cupboards:** The Kitchen is fully equipped with built-in cupboards and worktables. **General Contractors:** J. Newell, Caddington. **Bricks:** London Brick Co. **3-Ply Felt Roofing:** Ruberoid Co. **Fitted Cupboards:** W. & H. Hudson, Luton. **Sanitary Fittings:** Gibbs & Dandy, Luton. **Electrical Work:** Shoobred Electrical Co., Luton. **Windows:** Hopes Metal Window Co.

ARCHITECT'S
OWN HOUSE
AT STUDHAM
DESIGNED BY
PETER DUNHAM



Left, plan and site plan. Below, a close-up of the south elevation.





Top, the main entrance. Above left, view from the west; centre, another view from the garden; right, the living room. Below, the architect's sketch of the living room with drawing office on the right.



INFORMATION CENTRE

The function of this feature is to supply an index and a digest of all current developments in planning and building technique throughout the world as recorded in technical publications, and statements of every kind whether official, private or commercial. Items are written by specialists of the highest authority who are not on the permanent staff of the Journal and views expressed are disinterested and objective. The Editors welcome information on all developments from any source, including manufacturers and contractors.

PHYSICAL PLANNING

2757

London Water Area

PROPOSALS FOR A GREATER LONDON WATER AREA. *Metropolitan Water Board. (Metropolitan Water Board, 1946.)* Report on Planning proposals to meet water needs of Greater London. Delineation of water area. Proposed boundary. Community interest in resources. Executive control. Useful statistical information. 1 map, 2 diagrams.

The Government's White Paper on National Water Policy (HMSO, 1944, Cmd. 6515, 1944, 6d.) recognised the need for far-sighted and comprehensive planning to meet the water needs of Greater London. The matter was taken up by the Metropolitan Water Board, which now makes public the proposals contained in a report presented by its general purposes committee. The following is a summary of the report:

In regard to the delineation of a water area for Greater London detailed reference is made to important local physical and geological factors. The area covered comprises the valley of the Thames in which London is situated; and the countryside between the northern and southern boundaries which are formed by the Chiltern Hills and the North Downs respectively. Geologically London lies in a trough, more usually referred to as the London Basin. The three principal formations in the London Basin are the London clay, covering the centre, and chalk and gault, both of which dip down underneath the London clay. Rain falling on the outcrop of the chalk in the Chiltern Hills and the North Downs percolates inwards and supplies the water which is pumped out of that formation from numerous public and private wells.

If water is extracted from any source in the London Basin other sources in the Basin may be affected. It is, therefore, important that a water area for Greater London should be framed so as to include the London Basin. The area suggested by the Board extends approximately from Baldock in the North to Horley in the South, and from Maidenhead in the West to Gravesend in the East. The guiding conditions in preparing the boundary for the proposed area are that it should

- (1) be as self-contained as possible regarding sources of supply;
- (2) coincide as far as practicable with the boundaries of statutory water undertakings;
- (3) be of reasonable size.

A detailed description of the proposed boundary with comments on its selection is provided. It is stated that it is no easy matter, without cutting across some statutory areas of supply, to delineate a boundary for a Greater London Water Area either on a strictly geological basis or on the physical features of the ground. A

compromise has, therefore, been effected, and the suggested boundary encloses, in the main, an area in which the underground and overground water resources should be pooled if they are to be put to the best use. A most interesting comparison of figures in regard to the extent of the proposed water area is given, namely: the area included in the Abercrombie Report for Greater London is approximately 2,730 square miles; the area of the London Transport Passenger Board is 1,986 square miles; the Committee set up to enquire into the Gas Industry proposes a Regional Board for London covering approximately 2,300 square miles; the proposed Greater London water area is approximately 2,754 square miles.

In regard to sharing the water resources of the area reference is made to the Metropolitan Water Act, 1902, which placed the Metropolitan Water Board in the position of a "stand-by" to certain adjacent districts having their own supply. There exist already a number of water undertakings having bulk supply agreements with the Board, and it will be only a question of time before additional bulk supplies are asked for which must eventually be derived from the Thames. A further important consideration is the daily movement of population between home and work-place. Large numbers of persons upon whom London is dependent for labour live outside the Board's area of supply. In dealing

with the supply of water to the Metropolis, the needs of such people must receive consideration with those residing within inner London.

Discussing the methods of control and administration of a Greater London water area the report refers to the Water Act, 1945, in regard to Joint Advisory Water Committees, and comes to the conclusion that a Joint Advisory Water Committee does not represent the best means of administration for that area. The reason given is that the constitution of a Joint Committee for Greater London would be a very difficult matter in view of the many different interests which would have to be balanced. The most equitable distribution of the sources of supply cannot be attained in the vicinity of London, while 65 independent water authorities continue to operate in the area. The report, therefore, suggests that a single public authority representative of the whole of the proposed Greater London water area should be empowered to take over and manage the water supply services throughout the area.

Valuable statistical information concludes the report, giving numbers of water supply authorities, details of ownership, supply and population, and the areas of counties wholly or partly within the proposed area.

A map showing the suggested boundary for the Greater London water area, a geological map of South England, and two generalized sections across the London Basin are attached to the report.

STRUCTURE

2758

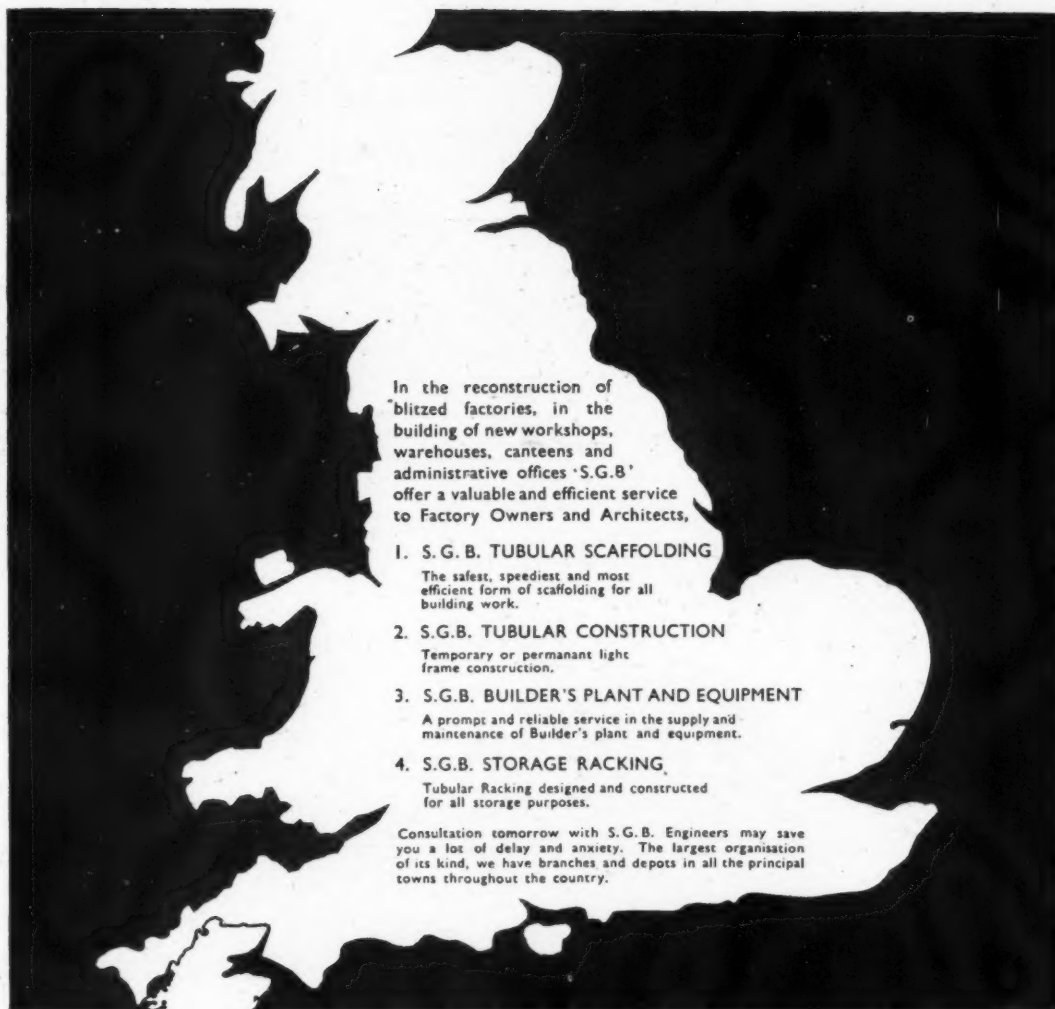
Welding

WARTIME ADVANCES IN WELDING. *(Architectural Record, July, 1946, pp. 111-115.)* Advantages of welding. Improved design and technique. Better equipment and electrodes. Higher inspection standards. Basic principles of design.

This article deals with the war-time development of welding in USA on



An example of welding in the USA illustrating an article in the Architectural Record on wartime advances in welding. See No. 2758.



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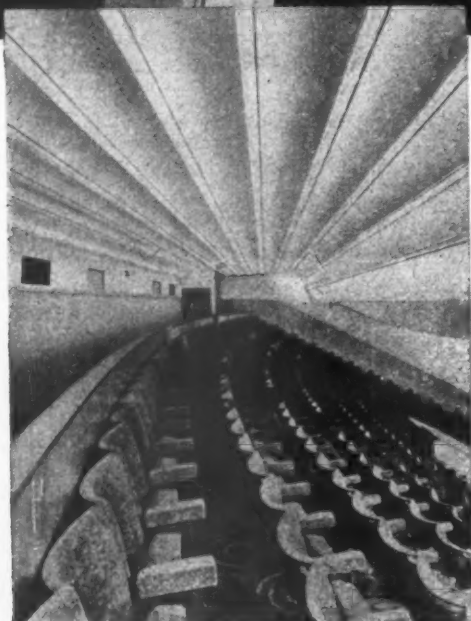
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somewhat similar lines to a previous article referred to in No. 2383:14.2.46. It contains a good summary of the principles of welded design and gives several examples of typical connections. The opportunities in architectural design offered by welding are emphasized.

2759

Welding

ARC WELDED STRUCTURAL STEELWORK I. STANCHION BASES, CAPS AND JOINTS. (*British Welding Research Association, March 1946, 9d.*) Recommendations for the design, fabrication and erection of welded stanchion details.

This pamphlet is the first of a series intended to simplify the less readily available information on a number of commonly occurring details and important matters arising in the design, fabrication and erection of arc welded structural steelwork.

2760

Reinforced Concrete

REINFORCED CONCRETE FOR BUILDINGS AND STRUCTURES REPORT ON FORMULÆ FOR COMPUTATION OF STRESSES. (*The Institution of Structural Engineers, London, 1946, 1s. 0d.*) Standard formulae for slabs and rectangular beams, T- and L-beams, columns.

This booklet contains formulae in common use in which the standard notations suggested by the Institution of Structural Engineers are incorporated. For symmetrical rectangular sections subjected to compression and bending 6 graphs are included, by the use of which the computation of stresses is considerably simplified.

2761

Waterproofing Concrete

INTEGRAL WATERPROOFING OF CONCRETE STRUCTURES. L. E. Hunter. (*Civil Engineering, July 1946, pp. 268-272.*) Methods of making waterproof concrete. Application to basements in water-logged ground and in permeable soil, to roofs, walls, rafts and facings.

2762

Publications on Concrete

THE REINFORCED CONCRETE REVIEW, Vol. I, No. 3. (*The Reinforced Concrete Association, June 1946, 1s. 6d.*) 64 items on recent publications on concrete and reinforced concrete. 4 good illustrations. See also No. 2489: 11.4.46.

2763

Repair of Stonework

REPAIR OF DAMAGED BUILDINGS. No. 21. The Repair of Stone-Work Damaged by Fire. No. 22. Assessment and Repair of Damage done by Enemy Bombing to Foundations and other Underground Structures. (*Building Research Station, Free.*)

No. 21 describes the effect of high temperature on stone. Heat causes a pink or reddish-brown discolouration in brown or buff-coloured limestones and sand. This does not occur among white or greyish stones which are relatively free from iron oxide. Tests have shown that the change of colour does not necessarily reduce the compressive strength of stone. Even where occasional cracks have developed in load bearing walls and columns, the factor of safety to which stone masonry is designed will often be adequate to compensate for such loss in bearing capacity that might have occurred. In steps and staircases where tensile stresses occur the development of cracks is much more serious. It is advis-

able to rebuild any stone staircase that has been exposed to fire, unless it can be shown by loading tests that it can be used without risk.

No. 22 deals with the effect of underground explosion on the subsoil and on buried structures and services, with damage to superstructures arising from earth movement and with the effect of earth movement on foundations. It contains suggestions for methods of soil surveying and for the repair of damaged foundations. The proposed methods of repair are illustrated.

For previous leaflets see Nos. 1843:22.3.45, 2316:10.1.46, 2399:21.2.46.

2764

Brickwork

BRICKWORK. DRAFT FOR COMMENT. BS Code of Practice CP: 1946. General Series Code 1.31. (*British Standards Institution, 3s. 6d.*) Materials. Design Considerations. Work on site.

The code contains recommendations for the choice of suitable materials to meet various conditions. The main requirements are the prevention of deterioration and moisture penetration. Unrendered solid brickwork, even if it is 13½ in. thick, is considered unsuitable for external walls under normal exposure conditions. Under severe conditions of exposure, only brickwork with slate or tile hanging or cavity walls offer sufficient margin of safety.

Tables for heat and sound insulation are included. The protection of the most vulnerable parts of brickwalls by damp-proof courses and flashings is shown by several examples (17 figures).

For work on site, practical advice is given for the setting out of buildings, scaffolding, the preparation of mortar, bricklaying, protection against rain and frost, the laying of damp-proof courses and a number of details.

2765

Limestone Roads

LIMESTONE ROADS. P. V. Valton. (*Chapman & Hall, 1946, 10s. 6d.*) Geological notes. Physical and chemical properties of limestone. Essential characteristics of a road stone. Different types of road surfacing.

The book deals with the use of limestone as an aggregate for road surfacing. It sets out the technical requirements, the methods of testing the materials and various methods of application. It is clearly written and well illustrated.

MISCELLANEOUS

2766

Public Works

BUILDING AND PUBLIC WORKS ADMINISTRATION. ESTIMATING AND COSTING. Spence Geddes, E.S. Diplomat, R.T.C. Glasgow. (*George Newnes, 1946, 25s. 0d.*) Emphasis on Civil Engineering and public works. Administration, organisation, estimating and the costing of work in progress. Mechanical plant (including type of operation for which each kind of plant is most suited). Output, fuel requirements, working cost per hour.

Prior to the war civil engineering was something of a closed book, the pages of which were known only to the initiated, but the switch over from peace-time building to aerodrome construction and similar engineering or semi-engineering projects was responsible for a remarkable change.

Building contractors had to undertake work previously considered to be the special prerogative of the public works contractor and civil engineer. Bulldozer and angledozer became household words and technicians in all branches of the building industry began to realise that even muck shifting was a highly developed and scientific procedure. Engineering and building trades operatives worked side by side on the same job and the Uniformity Agreement was applied.

This upheaval has tended to subside, but the lessons learned from aerodrome and camp construction can be applied to site layout and house construction, and contractors who have purchased or become accustomed to use mechanical equipment of all kinds, will not readily resort to the old methods.

For this reason, Mr. Spence Geddes' book should have a wide appeal—particularly as it contains information worthy of the study of an experienced engineer, written in such a way that any student can follow it.

For easy reference, the various trades have been dealt with in separate sections, including the less well-known ones of fencer, platelayer and roadmaker and quarrying for hardcore and aggregate.

The book is complementary to and not merely a repetition of the various standard works on builder's estimating. It is, as a result, an exceedingly useful reference book in its own field.

QUESTIONS and Answers

THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry. Answers are sent direct to enquirers as soon as they have been prepared. The service is confidential, and in no case is the identity of an enquirer disclosed to a third party. Questions should be sent to: THE ARCHITECTS' JOURNAL, 13, Queen Anne's Gate, Westminster, S.W.1.

2767

Building Licence

Q As architectural adviser to my clients in connection with the re-instatement of a factory damaged as a result of enemy action, I was eventually, after many months of irritating procrastination by the MOW, able to carry out only a portion of the work; after another year of letter writing I have now obtained a further licence for another small section of the work, but in this case a rider is added to the licence that I may not use any bricks for the construction. On consultation with the District Surveyor we find that the method of construction advocated by the MOW is quite illegal by the London Building Acts of 1930-1939, and that therefore the District Surveyor cannot pass the drawings.

Is the MOW within its legal rights in issuing a Building Licence in which it suggests that the architect should break the London Building Acts and Byelaws?

The factory comprises arches under the Southern Railway's main Brighton line at Battersea, the form of construction initially carried out and advocated by the District Surveyor was in 9-inch brickwork with supporting piers: the novel and quite "illegal" suggestion of the MOW is now to fill the arches with 4-inch klinker or breeze blocks.

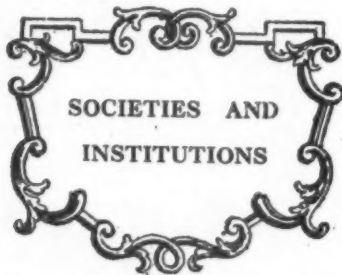
As the arches are practically open to the four winds at the moment it is essential that some work be put in hand immediately both to protect my clients' property and the personnel; but where do we stand with the MOW on one hand urging quite unorthodox building, and on the other hand the

District Surveyor refusing to pass such suggestion, in my opinion quite rightly, too?

A The Ministry of Works issues licences according to established priorities. Thus, work to a particular class of buildings may be considered of sufficient priority to warrant a licence, providing materials which are required for buildings of a higher priority, are not used.

In your case the licence is only valid if you are able to carry out the work without using bricks. There is no guarantee that this is possible and the issuing of a licence does not affect your obligations to conform to building laws, bye-laws and regulations.

You can, of course, inform the Ministry that the licence is valueless as the District Surveyor will not permit alternative means of construction and the Ministry may reconsider the matter. Alternatively you may have to wait until the work is considered of sufficient priority to warrant an unqualified licence.



Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.

IH

C. W. Gibson

September 27, at Friends House, Euston Road, N.W.1. Annual Conference of the Institute of Housing. OPENING ADDRESS by C. W. Gibson, M.P., Chairman of the LCC Housing and Public Health Committee.

C. W. Gibson: Homes today—indeed, in many cases just shelter—and graceful, convenient, ordered planning for tomorrow. There is no conflict of intention or desire; all men of goodwill seek both. The conflict is one of time and necessity.

Can we do both? Can we provide the greatest number of dwellings in the shortest possible time without seriously endangering good, sound planning and running the risk of repeating the errors of the past? I believe we can. But we must remember that good planning does not necessarily mean rigid, inflexible conceptions, unadapt-

able to the reasonable and proper needs of the time and the people. There is no greater danger to good planning than this frigid state of mind, for if excessive adherence to this outlook endures too long there will be a natural reaction by the people condemned to be homeless, which may sweep away considerations of planning and seriously jeopardise the prospect of building a better and more ordered Britain.

I yield place to no one in my desire for proper planning, and the London County Council can justly claim to have blazed a trail for the imaginative conception for re-planning large urban communities. But the LCC, like other Local Authorities, has also the major responsibility for housing the homeless people as speedily as it can. Moreover, the LCC has not only the responsibility for planning within the County of London, but also the moral obligation, which it fully accepts, to do nothing in its out-county housing which can fairly be said to offend against good planning, present or future.

The immediate and urgent—tragically urgent—problem which faces the LCC is to find new accommodation for 100,000 families. The London Borough Councils have equally urgent waiting lists. It is estimated that, allowing for duplicated applications, the number of families—not persons—demanding houses is 190,000. That means that something like 600,000 souls are in dire need of somewhere decent to live.

Every blitzed town in this country has a similar problem, varying in degree, but not in urgency. In my view it will be necessary to build fifty to sixty thousand houses outside the County of London if the LCC is to be able rapidly and adequately to house these people.

I do not think we can wait for the development of New Towns twenty-five or more miles from London. New Towns are essentially a long-term solution. The problem which the LCC has is how to build a large number of houses and flats during the next few years. Speed is of the very essence of the cure for our difficulties, and to secure this a large part of our house building in the immediate future must be outside the County of London.

Our immediate task is dwellings—now. In my own view the solution of this problem lies in the building of a defined number of quasi-satellites within a reasonable distance of the centre of London—a procedure which has the support of the Abercrombie report on the Greater London Plan. If there be a conflict it is not one of principle but, at most, one of degree.

But quasi-satellites must not become purely dormitory suburbs. They must be planned to secure a proper development of industry; they must have varied types of houses to suit the professional, technical and managerial groups, as well as for wage-earners. They must have facilities for the development of social, cultural, religious and recreational activities. They must be near enough to London to avoid unduly long journeys to work while the local industries are being built up.

There have also been suggestions that building in the eighty or so towns within what I call, for the sake of definition, the Abercrombie green belt, would solve our problem. In my view this would not make an adequate contribution to London housing and, moreover, as it seems to me, would be more destructive of the green belt than the proposed cottage estates of the LCC are alleged to be.

And I wish to make it clear to you that I am not, nor is the LCC, opposed to the idea of New Towns. On the contrary, I believe they can make a positive and beneficial contribution to the proper planning of the better Britain we all desire to see. I wish Mr. Silkin abundant success in his great endeavour. I am convinced

that the short-term difficulties can be solved without prejudice to long-term aspirations, if a reasonable balance be held between the two.

HC

Dr. C. S. Orwin

September 25, at the Housing Centre, 13, Suffolk Street, S.W.1. Speech by Dr. C. S. Orwin at the opening of the VILLAGE SURVEY Exhibition.

C. S. Orwin: The country planning problem is a thing of very recent growth. If you think about our villages and what they have been in the very recent past, you will see how they grew up and were built by private enterprise and how you can trace back, century after century, what each generation has added to the building tradition of the place. The conditions which produced these villages seem to have changed altogether in the lifetime of people as old as myself. Two generations ago the people lived by agriculture, or by the industries which serve the people who live by agriculture. The whole place consisted of farmers and people engaged in rural industries supplying the farmers—wheelwrights, maltsters, tailors and shoemakers—a compact little place, busy in the work on the land.

Well, that has been changing very rapidly indeed in the last two generations, and I think this fact has brought the need for a completely new consideration of the future of our villages.

Over a million people were engaged in work on the land in 1881, and today there are 500,000. This means, so far as housing goes, that if you leave the villages alone there is no problem at all for the agricultural population. What the agricultural population wants is not more houses, but better houses, and better served houses.

Mr. Cecil Stewart's survey of Sutton-at-Hone has shown that less than a third of the people in the village work in the village; others work in other occupations at a distance from their homes. That is the change that has come over a great number of our English villages. The agricultural industries have gone, and houses which were formerly occupied by agricultural workers are now occupied by an entirely different class of people—industrial people, who go to work in the nearby industrial town. Instead of one degree removed from agriculture, you have got an entirely different population—a large element of residential people and a very considerable element of industrial workers who are only interested in food production as consumers.

The purely agricultural community cannot expand; the tendency with mechanisation is all the other way. At the same time, there is no limit to the expansion which you may get when you have people engaged in industrial life who want to live at a distance from their work. The problem, then, is what to do about planning for this increase to the villages.

There is, it is true, a demand from agricultural workers for houses. That is partly because they want better houses and partly because the houses which they might have been entitled to expect have been taken from them in the last generation, very largely by those industrial workers who could afford to pay higher rents.

What is to be done about it? It is very easy to criticise as I am doing. The trouble is that there is nothing whatever to guide local authorities or to challenge them to think about what is wanted to give the best life to the people. That is why, it seems to me, this survey by Cecil Stewart and his colleagues stands out as an extraordinary piece of imaginative and useful work.

... and it did not fail

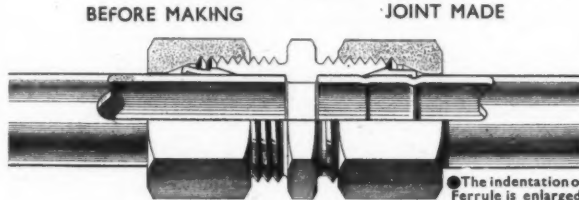
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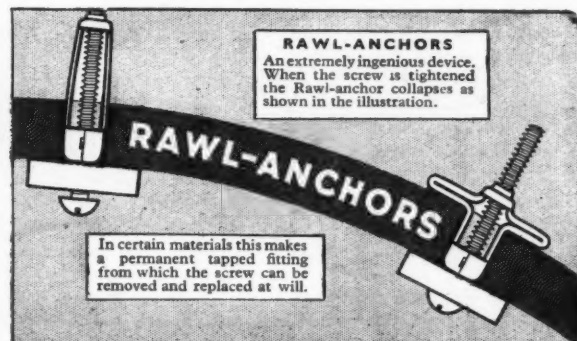
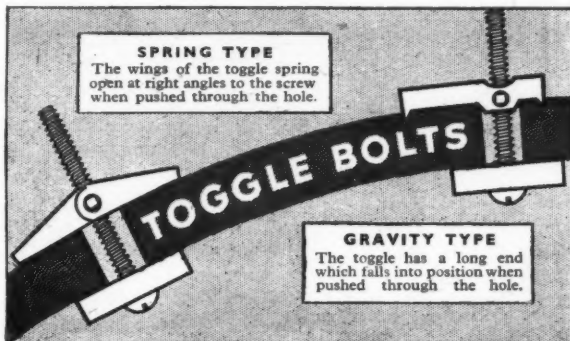
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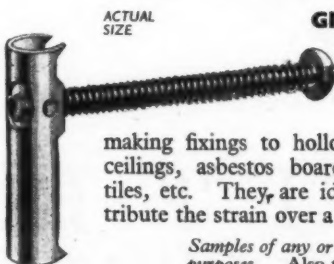
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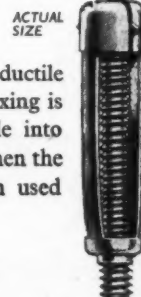
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Publications Received




Study of the Growth of Grass in "Surface Stabilised" Soil. Martin A. F. Sutton. (Sutton & Sons, Reading, 3s. 6d.)
Art of Building Cities. Camillo Sitte. (Chapman & Hall, 33s. 0d.)
Architectural Use of Building Materials. (HMSO, 2s. 6d.)
A Handbook of Woodcutting. (HMSO, 9d.)
We Built a House. Roy C. Cole. (John Gifford, 7s. 6d.)
The Crest of the Hill. C. Midgley. (A. Wheaton & Co., 2s. 6d.)
The Arts. (Lund Humphries, 10s. 0d.)
Sanitation, Drainage, and Water Supply. G. Eric Mitchell. (George Newnes, 12s. 6d.)
Architects', Builders', and Civil Engineers' Technical Catalogue. (Country Life, 45s. 0d.)
The Key to Your New Home. Lewis Storrs, Jr. (McGraw-Hill Publishing Co., \$2.75.)
The Economics of Housing. Laura M. Kingsbury. (King's Crown Press, 16s. 6d.)
Farm Buildings for Scotland. (HMSO, 1s. 6d.)
Suffolk Planning Survey. T. B. Oxenbury. (John Murray, 12s. 6d.)
Limestone Roads. P. A. Valton. (Chapman & Hall, 10s. 6d.)
The Mint. Edited by Geoffrey Grigson. (Routledge & Sons, 8s. 6d.)
Architecture. Claud Batley. (Oxford University Press, 9d.)
Transport. F. P. Antia. (Oxford University Press, 9d.)
Homes for the People. (Paul Elek, 7s. 6d.)
Building Geometry. W. J. Stone. (Longmans, Green & Co., 7s. 6d.)

Book of Big Ben. Alfred Gillgrass. (Herbert Joseph, 10s. 6d.)
"The Ironmonger" Glossary of Building Trade Abbreviations. Compiled by John Croydon. (The Ironmonger, 3s. 6d.)
Future Books: Vol. II: The Stage is Set. (Leathley Publications, 5s. 0d.)
Orkney and Shetland, Vol. I—Report and Introduction. (HMSO, 10s. 0d.)
Orkney, Vol. II. (HMSO, £1 15s. 0d.)
Shetland, Vol. III. (HMSO, £1 0s. 0d.)
The Limitation of Building Heights. (The Georgian Group, 1s. 0d.)
An Outline Plan for Guildford. G. A. Jellicoe. (Borough of Guildford.)
Housing Digest. (Art and Educational Publishers, 15s. 0d.)
A Guide to Contractor's Plant. Noel D. Green. (George Newnes, 15s. 0d.)
Transactions of the Georgian Society for East Yorkshire. Vol. I, Part 3. 1936-46. (Georgian Society for East Yorkshire, 6s. 6d.)
Final Report of the New Towns Committee. (HMSO, 1s. 3d.)
Building Trade Facts. W. T. S. Smith and E. G. Blake. (The Technical Press, 5s. 0d.)
Bricklayer's Repair Work. W. Frost. (The Technical Press, 4s. 6d.)
Building Insulation. Paul D. Close. (American Technical Society, £1 4s. 6d.)
Farm Buildings: Post-War Study No. 17. (HMSO, 3s. 0d.)
Works of Art in Germany (British Zone of Occupation). (HMSO, 2s. 6d.)
Works of Art in Greece. (HMSO, 2s. 0d.)
Works of Art in Italy. (HMSO, 5s. 0d.)
Protractors for the Computation of Daylight Factors. A. F. Dufton. (HMSO, 4d.)
Industrial Art Explained. John Gloag. (George Allen & Unwin, 15s. 0d.)
Revolution of Environment. E. A. Gutkind. (Kegan Paul, Trench, Trubner, £1 10s. 0d.)
Chester: Plan of Development. Charles Greenwood. (Phillipson and Golder.)



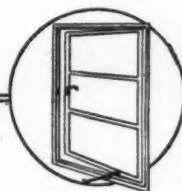
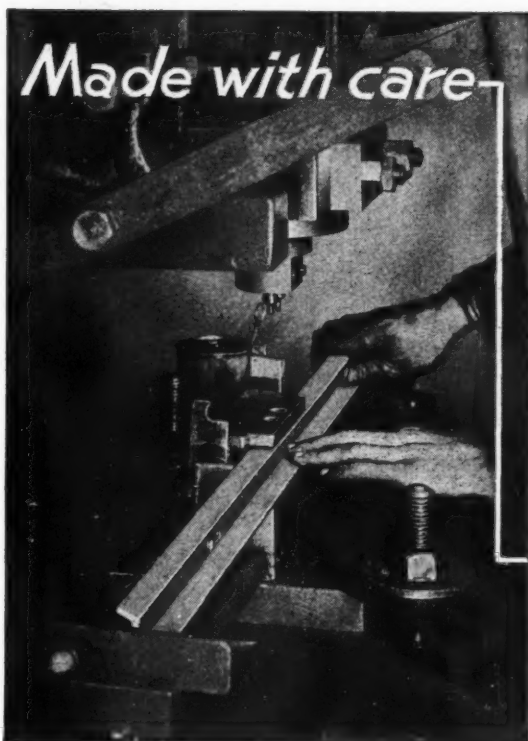
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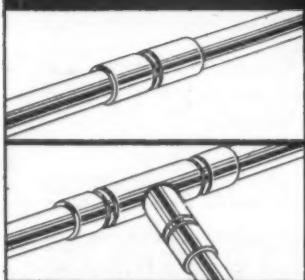
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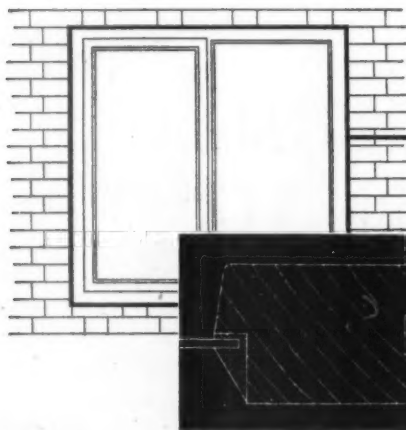
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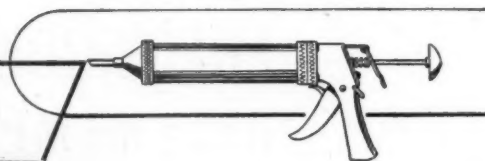
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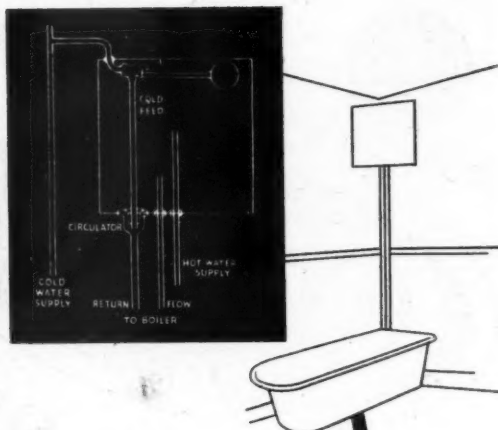
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News Chronicle Reporter

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This step, to be announced by the Food Ministry and the Board of Trade in mid-August, means a virtual ban on paint repair work to "non-essential" property. Retailers will get only the smallest trickle of paint.

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An official of the Paint and Varnish Manufacturers' Association told me: "We have been warned that our supplies of linseed oil will be so severely curtailed that we shall only have paint enough for rehousing and work on prefabricated houses. "Private householders who want to paint their front doors and window sills will have to convince their local council and the Board of Trade that the work is absolutely essential."

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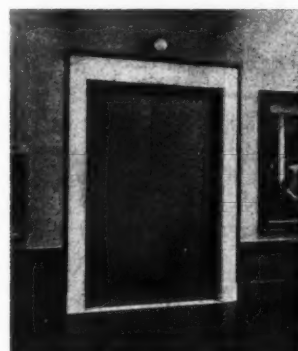
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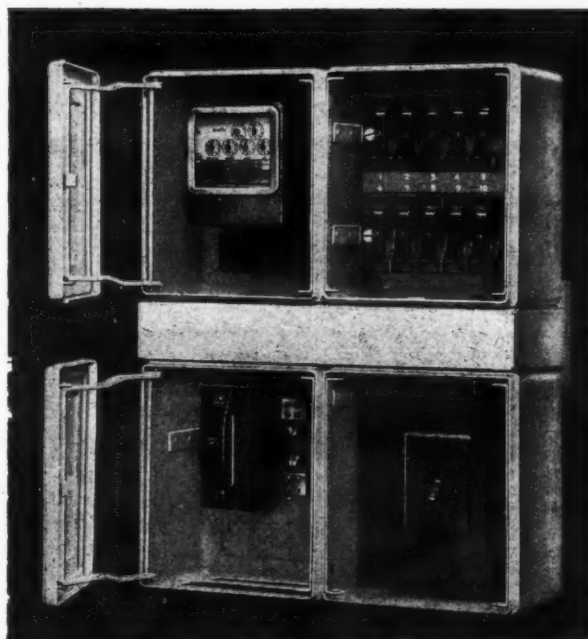
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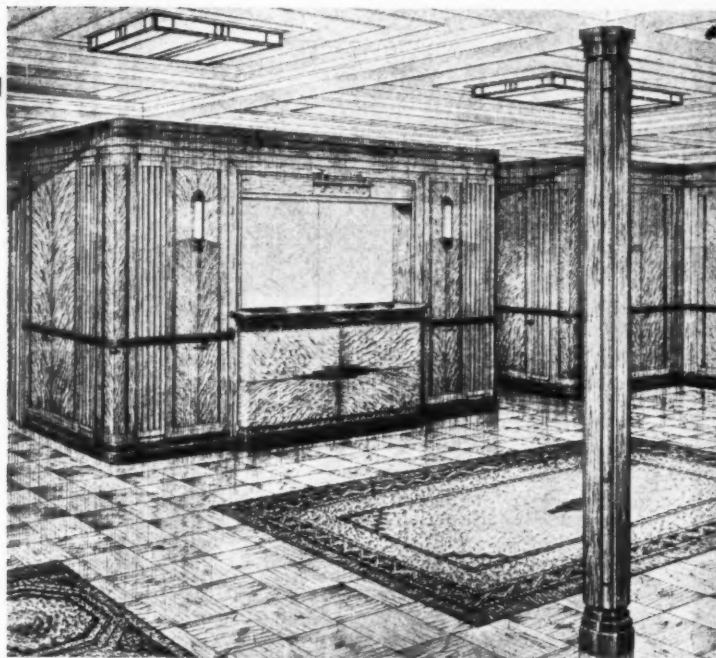
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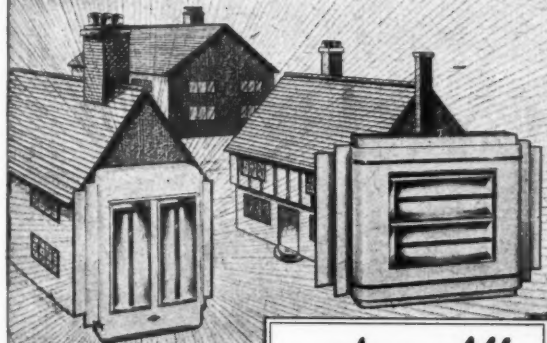
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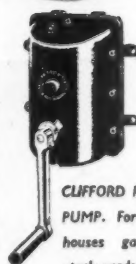
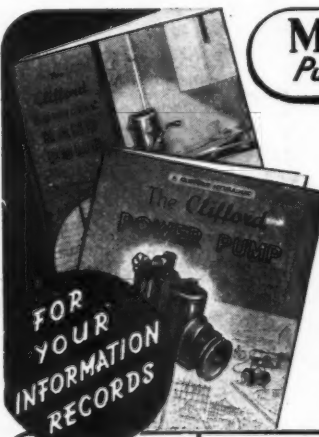
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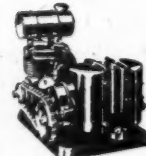
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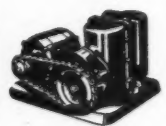
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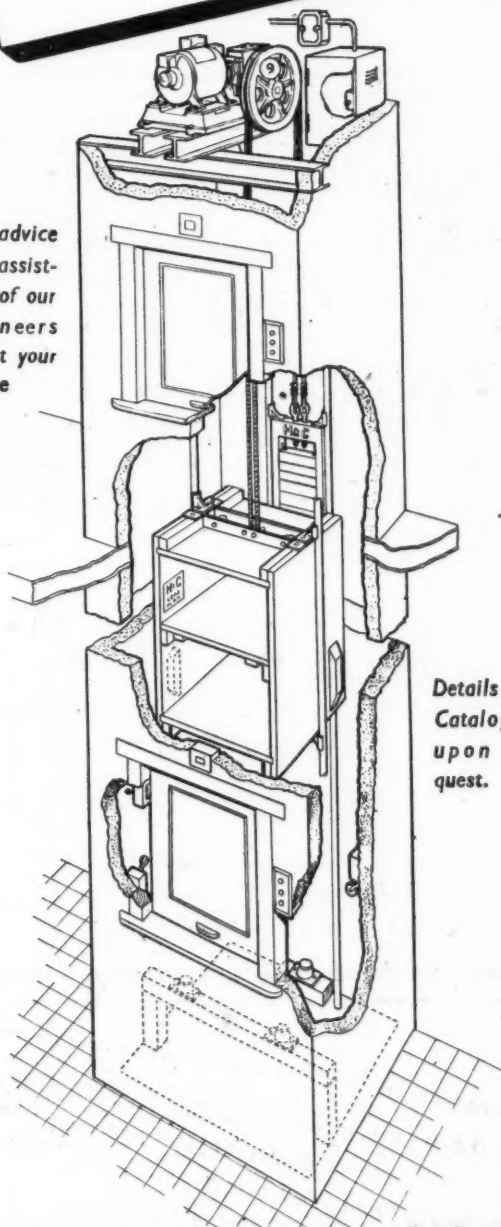
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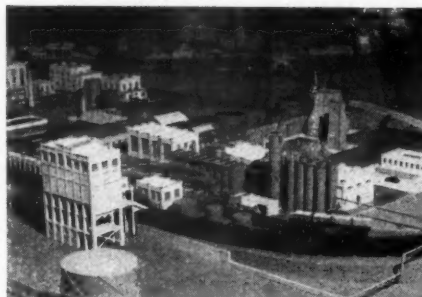


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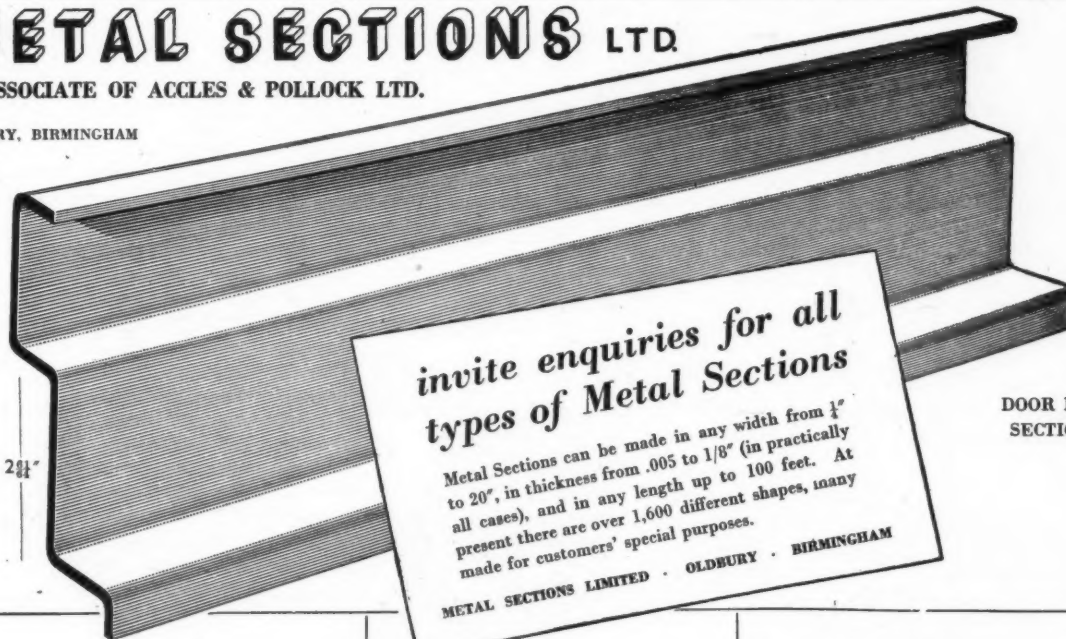
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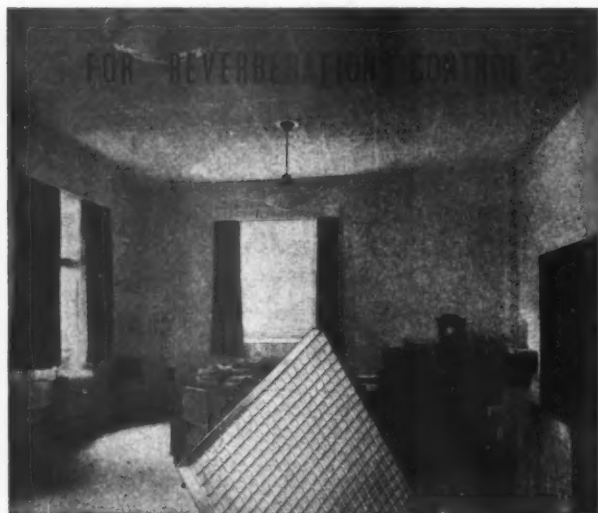
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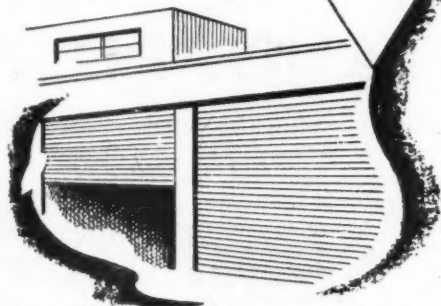
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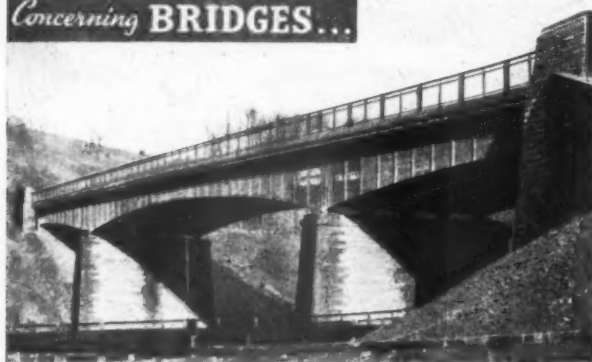
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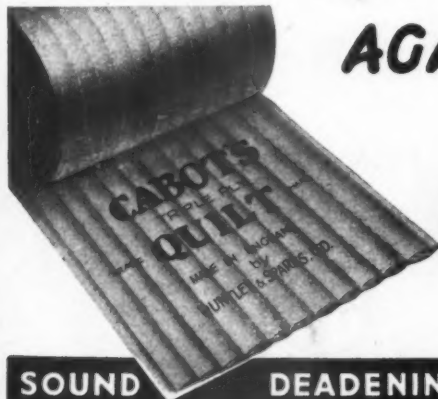
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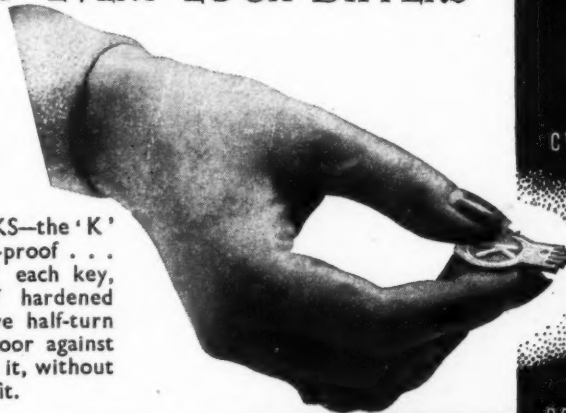
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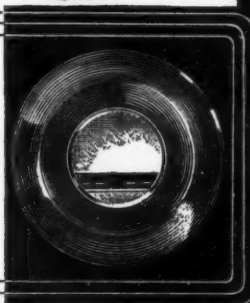
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Replies to Box Numbers should be addressed care of "The Architects' Journal," War Address: 45 The Avenue, Cheam, Surrey.

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(d) Assistant to district surveyors. A knowledge of the London Building Acts and by-laws is necessary for these positions.

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Ex-Service candidates with experience prior to their war service will be specially considered.

Application forms may be obtained from the Clerk of the Council, County Hall, Westminster Bridge, London, S.E.1, enclosing stamped addressed foolscap envelope.

Canvassing disqualifies. 947

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited by 4th November, 1946, for the appointment of Architectural Assistant, in Grade A.P.T. VI, at a salary of £535, rising to £500 per annum, plus cost-of-living bonus, at present £59 12s. 3d.

Application forms and particulars may be obtained from the Borough Surveyor, Town Hall, Wallasey, on receipt of a stamped addressed envelope.

EMRYS EVANS,
Town Clerk. 567

DEPARTMENT OF HEALTH FOR SCOTLAND.

CHIEF ARCHITECT AND PLANNING OFFICER.

Applications are invited by the Department of Health for Scotland for the post of Chief Architect and Planning Officer in Edinburgh, at a salary of £1,800 inclusive.

The appointment is subject to the usual Civil Service conditions as to pension, holidays, etc. If the successful applicant is a pensionable official of a local authority, the Local Government and Civil Service (Superannuation) Rules, 1936, will apply.

Candidates must be between the ages of 35 and 50 on 1st September, 1946, must be members of the R.I.B.A. and the T.P.I., and must have extensive experience of housing (with particular reference to layout, design, and the new forms of construction) and of town and country planning.

Forms of application, with further particulars of the appointment, may be obtained from the Establishment Officer (Room 31), Department of Health for Scotland, St. Andrew's House, Edinburgh, 1, and must be returned to him not later than the 31st October, 1946.

Those candidates who appear best qualified will be required to attend a Selection Board in Edinburgh or London. 527

BUCKS COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT QUANTITY SURVEYOR, experienced as a "worker up" and in abstracting and billing dimensions for public works. Salary scale £420 × £15—£465 per annum, plus bonus (now £59 12s. per annum). The appointment is superannuable and subject to medical examination.

Forms of application may be obtained from F. A. C. Maunders, F.R.I.B.A., A.M.T.P.I., The County Architect, County Offices, Aylesbury, to whom applications must be delivered not later than Friday, 18th October, 1946.

GUY R. CROUCH,

Clerk of the Bucks County Council.
County Hall, Aylesbury.
17th September, 1946. 523

Amended Advertisement.

COUNTY BOROUGH OF SWANSEA.

APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited for the post of Borough Architect. The salary is £1,400 per annum. A cost-of-living bonus will be payable (the present rate is £59 16s. a year), and a car allowance will also be made.

Applicants must be Registered Architects and Fellows or Associates of the Royal Institute of British Architects, and possess wide and thorough experience in the service of a Local Authority.

The appointment will be subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

The appointment may be terminated by three months' notice by either party.

Terms and conditions of the appointment and forms of application may be obtained from the undersigned.

Applications, accompanied by copies of three recent testimonials, must be delivered to the undersigned not later than Friday, the 8th November, 1946.

Canvassing, directly or indirectly, will disqualify.

T. B. BOWEN,
Town Clerk.

The Guildhall, Swansea
23rd September, 1946. 544

METROPOLITAN BOROUGH OF PADDINGTON.

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Applications, stating age, qualifications, experience, the names of three persons to whom reference can be made, and endorsed "Architectural Assistant," must reach the undersigned not later than 24th October, 1946.

W. H. BENTLEY,
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Town Hall, Paddington, W.2.
2nd October, 1946. 519

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APPOINTMENT OF ARCHITECTS.

Applications are invited for the following posts from Fellows or Associates of the Royal Institute of British Architects having a good knowledge of housing.

(a) Salary scale, £640 × £25—£890.

(b) Salary scale, £428 × £20—£628.

In each case the entry point on the salary scale will be fixed according to the experience and qualifications of the successful applicant.

The Northern Ireland Housing Trust is a Statutory Body set up by Parliament, and has an immediate building programme of several thousand houses.

The Chief Technical Officer of the Trust is E. A. Ferriby, Esq., B.Arch., A.R.I.B.A., A.M.T.P.I. The appointments will be full time, and a successful candidate will be required to carry out such work in connection with the design, construction, and supervision of housing schemes from the layout stage to the completion of the houses as may be assigned to him.

Candidates should apply by letter to the address given below, stating the date and place of birth, qualifications and experience, the date when able to commence duties, and for which post they are applying, and giving the names of two referees. Applications will be received up to 17th October, 1946.

GENERAL MANAGER.

Northern Ireland Housing Trust.
5, Donegall Square South, Belfast. 553

COUNTY BOROUGH OF CANTERBURY.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, in the City Architect's Department:—

(1) ARCHITECTURAL ASSISTANT (Temporary), Grade III. Salary of £390 × £15—£435 per annum.

Applicants must be A.R.I.B.A., and should have had experience on educational buildings.

(2) ARCHITECTURAL ASSISTANT (Temporary), Grade I. Salary of £330 × £15—£375 per annum.

Preference will be given to applicants who are A.R.I.B.A., and have some experience of housing work.

Cost-of-living bonus, at present £59 16s. per annum, is payable.

The appointments are subject to the Local Government Superannuation Act, 1937, and successful candidates will be required to pass a medical examination. Service may be terminated by one month's notice on either side.

Applications, stating age, qualification and experience, together with the names of three persons to whom reference may be made, should be forwarded to the City Architect, Mr. L. Hugh Wilson, A.R.I.B.A., A.M.T.P.I., Municipal Buildings, Dane John, Canterbury, not later than Monday, 14th October, 1946.

J. BOYLE,

Town Clerk.

Municipal Buildings, Canterbury.
24th September, 1946. 538

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments, both of which are subject to the Local Government Superannuation Act, 1937, a medical examination, and one month's notice on either side. The salary scales are those of the A.P. and T. Division of the National Scales, and are exclusive of the cost-of-living bonus, at present £59 16s. per annum.

(a) SECOND ARCHITECTURAL ASSISTANT. Grades IV/V. £420—£15—£15—£15—£10—£15—£20—£510 (commencing at £435).

(b) GENERAL ENGINEERING ASSISTANT. Grade I. £330—£15—£15—£15—£375 (commencing at £330).

Candidates for appointment (a) must be Registered Architects and Associates of the Royal Institute of British Architects, with considerable experience in the design of houses, municipal architectural work and building quantities. Candidates for appointment (b) must hold at least one of the following qualifications: (a) Engineering Degree of a British University, (b) sections A and B of the Associate Membership Examination Inst. C.E., (c) Testamur of the Inst. M. and Cy.E., and must have had experience in Municipal Engineering work.

Application forms may be obtained from Mr. E. T. Crowe, B.Sc., A.M.I.C.E., Borough Engineer and Surveyor, Carr Bank, Mansfield, to whom applications, appropriately endorsed, must be delivered not later than Friday, 25th October, 1946. Canvassing, either directly or indirectly, will disqualify.

A. C. SHEPHERD,
Town Clerk.

Carr Bank, Mansfield.
23rd September, 1946. 531

COUNTY OF SOUTHAMPTON.

Applications are invited for the following appointments on the established staff of the County Architect's Department:—

- (a) ASSISTANT ARCHITECTS, Grade V. Salary £460×£15 and £20—£510 per annum.
 (b) ASSISTANT ARCHITECTS, Grade IV. Salary £420×£15—£465 per annum.
 (c) ASSISTANT ARCHITECTS, Grade III. Salary £390×£15—£435 per annum.
 (d) ARCHITECTURAL ASSISTANTS, Grade I. Salary £330×£15—£375 per annum.
 (e) JUNIOR ARCHITECTURAL ASSISTANT, General Division. Salary according to age, varying from £120 per annum at the age of 19 years to £300 per annum at the age of 30 years.

(f) ASSISTANT QUANTITY SURVEYOR, Grade V. Salary £460×£15 and £20—£510 per annum.

(g) ASSISTANT QUANTITY SURVEYORS, Grade III. Salary £390×£15—£435 per annum.

(h) ASSISTANT QUANTITY SURVEYOR, Grade I. Salary £330×£15—£375 per annum.

The cost-of-living allowance, at present £59 16s. per annum, will be payable in addition to the salaries stated, in respect of appointments (a), (b), (c), (d), (f), (g) and (h); cost-of-living allowance for appointment (e) will vary from £35 2s. per annum at 19 years of age to £59 16s. per annum at 21 years and over.

Candidates for appointments (a), (b) and (c) must be Registered Architects, preferably A.R.I.B.A., with good general experience in design and construction of public buildings.

Candidates for appointments (d) should have passed the intermediate examination R.I.B.A., and have had some practical experience.

Candidates for appointments (f) and (g) should have the qualification P.A.S.I., and experience in the preparation of Bills of Quantities and Estimates, and in the settlement of final accounts on building contracts.

Candidates for appointment (h) should have passed the Intermediate Examination of the Surveyors' Institution.

The appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

The appointments will be terminable by one month's notice on either side.

Applications should be made on forms to be obtained from Simpson Low, A.R.I.B.A., Dipl. Arch., County Architect, The Castle, Winchester, to whom they should be returned so as to arrive not later than Tuesday, the 15th October, 1946.

G. A. WHEATLEY,

Clerk of the County Council.

The Castle, Winchester.

September, 1946.

534

COUNTY BOROUGH OF SMETHWICK.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

- ARCHITECTURAL.
 (1) ASSISTANT ARCHITECTS (Two), Grade III. Salary £390—£435 per annum.
 (2) ASSISTANT ARCHITECT, Grade II and III. Salary £360—£435 per annum.
 (3) JUNIOR ASSISTANT ARCHITECT, Grade I. Salary £330—£375 per annum.

The above salaries are exclusive of the cost-of-living bonus, which is at present £59 16s. per annum. Candidates should have appropriate qualifications and experience for the position applied for. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937 and 1939, and the successful applicants will be required to pass a medical examination.

Applications for the appointments should be made out under the headings indicated in the following order:—

- (a) The specific appointment applied for.
 (b) Name and address.
 (c) Age, nationality, and whether married or single.
 (d) Educational training.
 (e) Professional qualifications.
 (f) Present position, salary, and date of appointment.
 (g) Previous positions and dates of appointments.
 (h) Detailed particulars of experience.
 (i) Any further remarks in support of application.
 (j) Notice required to terminate present appointment.
 (k) Names of two persons to whom reference can be made.

and should be delivered, suitably endorsed to, Mr. Roland Fletcher, M.Inst.C.E., Borough Engineer and Surveyor, Council House, Smethwick, as soon as possible, and not later than 21st October, 1946.

E. L. TWYECROSS,

Town Clerk.

Council House, Smethwick.

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MINERS' WELFARE COMMISSION.

Applications are invited for appointments in London (or Ashted, Surrey, temporarily), and in Glasgow (or Edinburgh), Newcastle-upon-Tyne, Manchester, Sheffield, Nottingham, Cardiff.

(i) ARCHITECTURAL ASSISTANTS, Grade II(a), £340×£20—£430; ARCHITECTURAL ASSISTANTS, Grade II(b), £250×£18—£340.

(ii) QUANTITY SURVEYORS (London only), £650×£25—£900.

(iii) ASSISTANT QUANTITY SURVEYORS, £400×£25—£650.

(iv) TECHNICAL ASSISTANT, Grade I, £350×£18—£500; TECHNICAL ASSISTANTS, Grade II, £175×£18—£350.

Plus war bonus consolidated addition of £78 and £105 p.a.

In category (i) preference will be given to applicants who are Student Members of the R.I.B.A.

In category (ii) preference will be given to applicants who are members of the R.I.C.S., experienced in the preparation of Bills of Quantities and approximate estimates, and who have had considerable experience in a professional Quantity Surveyor's office.

In category (iii) preference will be given to applicants who are Professional Associates of the R.I.C.S., able to prepare Bills of Quantities, approximate estimates and final accounts, and to write specifications and reports.

In category (iv) preference will be given to applicants who are experienced "workers up" and/or able to prepare estimates of small works and take measurements on site.

Staff Pension Scheme after one year's satisfactory service.

Applications on forms obtainable from Miners' Welfare Commission, Ashley Court, Ashted, Surrey (telephone Ashted 3262).

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BOROUGH OF WILLESDEN.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of one Third-Class Architectural Assistant, in the Borough Engineer and Surveyor's Department.

The salary attaching to the post will be Administrative, Professional and Technical, Grade I, of the National Whitley Council Scale for the London area, namely £380 per annum, by £15's to £425 per annum, plus cost-of-living bonus. Candidates must have passed the Intermediate Examination of the Royal Institute of British Architects, or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a Local Authority.

The appointment, which will be terminable by one month's notice on either side, is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, together with copies of not more than three recent testimonials, should be forwarded to the undersigned, endorsed "Architectural Assistant," not later than 10 a.m. on Wednesday, 30th October, 1946.

Canvassing, directly or indirectly, will be deemed a disqualification.

W. T. PIRIE,

Town Clerk.

Town Hall, Dyne Road, Kilburn, N.W.6.

28th September, 1946.

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CITY AND COUNTY OF THE CITY OF EXETER.

APPOINTMENT OF SENIOR ASSISTANT ARCHITECT.

Applications are invited for the appointment of Senior Assistant Architect, on the permanent staff of the City Architect's Department.

Candidates must be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications, and preference will be given to those candidates who have had considerable experience in Local Government Housing and Educational work.

The salary will be in accordance with Grade V of the National Scale of Conditions of Service, i.e., £460 per annum, rising by two annual increments of £15 and one of £20, to a maximum of £510 per annum, plus cost-of-living bonus, at present amounting to £59 16s. 3d.

The appointment will be subject to one calendar month's notice on either side, and to the provisions of the Local Government Superannuation Act, 1937. The person appointed will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments with salaries, and full details of experience, and date when available, together with copies of three recent testimonials, should be sent to H. B. Rowe, A.R.I.B.A., A.M.I.Struct.E., City Architect, 2, Southernhay West, Exeter, not later than the 28th October, 1946.

C. J. NEWMAN,

Town Clerk.

Exeter.

30th September, 1946.

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CITY OF CARDIFF.

CITY SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments, which are subject (i) to the Scheme of Conditions of Service approved by the National Joint Council for Local Authorities, (ii) to the Local Government Superannuation Act, 1937, (iii) to the passing of a medical examination by the successful candidate, (iv) to determination by one month's notice on either side, (v) a candidate must disclose in writing when making an application whether to his knowledge he is related to any Member of the Council or a holder of any Senior Office under the Council, and (vi) canvassing, directly or indirectly, will disqualify.

PROFESSIONAL AND TECHNICAL DIVISION.

(a) SENIOR ARCHITECTURAL ASSISTANT. Applicants must be Architects, and should have had administrative experience. Salary £460 p.a., rising by three increments to £510 p.a. (Grade V).

(b) ASSISTANT QUANTITY SURVEYOR. Applicants should be Chartered Quantity Surveyors, fully experienced in the preparation of Bills of Quantities and the control of major contracts. Salary £460 p.a., rising by three increments to £510 p.a. (Grade V).

(c) QUANTITY SURVEYING ASSISTANT. Applicants should be P.A.S.I. or prospective (Quantities Section), and have had experience in the preparation of Bills of Quantities, Specifications, site measuring and final accounts. Salary £420 p.a., rising by three increments to £465 p.a. (Grade IV).

(d) ARCHITECTURAL ASSISTANTS (two vacancies). Applicants must be Architects, good draughtsmen, experienced in Surveying and the preparation of working drawings. Salary £360 p.a., rising by three increments to £405 p.a. (Grade II).

(e) JUNIOR ARCHITECTURAL ASSISTANT. Applicants must be Architects, and must have had experience in the preparation of working drawings. Salary £330 p.a., rising by three increments to £375 p.a. (Grade I).

The above salaries are exclusive of the present cost-of-living bonus of £59 16s. per annum.

Applications should be tabulated, showing age, qualifications, present and previous appointments, salaries, and list of buildings on which experience has been obtained, the names of three referees to whom reference can be made, and delivered to the undersigned not later than Monday, 28th October, 1946.

S. TAPPER JONES,

Town Clerk.

City Hall, Cardiff.

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MONMOUTHSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following posts, in the County Architect's Department.

(a) SIX PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

(b) ONE ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with Grade V of the Administrative, Professional and Technical Division, as above.

(c) TWO ASSISTANT QUANTITY SURVEYORS, at a salary in accordance with Grade IV of the Administrative, Professional and Technical Division of the National Joint Council's Scheme, viz., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Candidates for (a) must have a knowledge of design and construction, particularly in relation to schools, public buildings, police stations, etc., and must be Associate Members of the Royal Institute of British Architects, and for (b) and (c) should be members of the Surveyors' Institution (Quantities Section), and should have wide experience in preparing estimates and bills of quantities, and in dealing with contractors' accounts, etc.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to the Regulations of the Council in force from time to time governing their Administrative, Technical and Clerical Staff, and will be determinable by one month's notice on either side. The successful candidates will be required to pass a medical examination.

Forms of application and conditions of service can be obtained from the undersigned. Applications, stating age, experience and qualifications, together with copies of three recent testimonials, must be delivered to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than the first post on Monday, 28th October, 1946.

VERNON LAWRENCE,

Clerk of the Council.

County Hall, Newport, Mon.

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NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for the following appointments:—

(1) **FULL-TIME LECTURER** on Building Construction, Working Drawings and Materials. Applicants should be members by examination of one of the recognised Institutions associated with Architecture, Surveying or Building. Some teaching experience will be an advantage, but is not essential.

(2) **EVENING LECTURER** on the Properties and Uses of Materials.

(3) **EVENING ASSISTANT LECTURERS** on Building Construction.

Applications will be entertained from those who have had no teaching experience, but would like an opportunity of gaining experience in a junior capacity with a view to taking on more responsible duties in future sessions.

(4) **PART-TIME DAY LECTURER** on the Practice and Theory of Town Planning. The Lecturer appointed will be required to give lectures to Fifth Year Students in the School of Architecture.

Forms of application, together with full particulars, will be forwarded on receipt of a stamped, addressed foolscap envelope.

R. H. CURRELL, Clerk. 580

FIFE COUNTY COUNCIL.

PLANNING AND ARCHITECTURAL DEPARTMENT.

PLANNING DEPARTMENT.

Applications are invited for appointment of **PLANNING ASSISTANT** in the above Department. Preference will be given to candidates holding the Associate Membership of the Town Planning Institute, and having practical experience in the preparation of Planning Schemes. Salary £400 per annum, plus war bonus of £90.

ARCHITECTURAL DEPARTMENT. Applications are invited for the appointment of an **ARCHITECTURAL ASSISTANT**, in the County Housing Architect's Department. Applicants must be qualified Architects, under 46 years of age, with previous experience of Local Authority Schemes, particularly Housing. Salary will be £400 per annum, plus war increase of £90 per annum.

Both the above appointments are superannuable, and successful candidates will require to undergo a medical examination.

Applications, stating age, qualifications and experience, accompanied by copies of testimonials and clearly showing the vacancy applied for, must be lodged with the undersigned not later than 29th October, 1946.

J. M. MITCHELL, County Clerk. 608
County Buildings, Capar-Fife.
2nd October, 1946.

BOROUGH OF SOUTHGATE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Two Architectural Assistants, on the established staff of the Borough Engineer and Surveyor's Department, at a salary, etc., in accordance with Grade V of the A.P.T. Division of the National Joint Council Scales, i.e., £460-£510 per annum, plus £30 London area weighting.

In addition a cost-of-living bonus (at present £59 16s. per annum) is payable.

Applicants should be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification. Previous Municipal experience, particularly in Housing, will be an advantage.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful applicants will be required to pass satisfactorily a medical examination. The appointments will be terminable by one month's notice on either side.

Candidates who to their knowledge are related to a Member or Senior Officer of the Council must disclose the relationship in their applications. Failure to do so will disqualify or render the candidates appointed liable to dismissal without notice.

Canvassing, either directly or indirectly, will be a disqualification.

Applications, stating age, examination qualifications, present and past appointments, with dates and salaries, and particulars of experience, accompanied by copies of three recent testimonials, endorsed on the envelope "Architectural Assistant," must reach Mr. J. T. W. Peat, F.R.I.B.A., Borough Engineer and Surveyor, Southgate Town Hall, Palmers Green, N.13, by not later than Friday, 25th October, 1946.

GORDON H. TAYLOR, Town Clerk. 595
Southgate Town Hall, Palmers Green, N.13.
October, 1946.

COUNTY OF WARWICK.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff:—

(a) **ASSISTANT ARCHITECT.** Commencing salary £365 per annum, rising by annual increments of £15 to £410 per annum. Applicants should be Members of the Royal Institute of British Architects.

(b) **SURVEYING ASSISTANT.** Commencing salary £420 per annum, rising by annual increments of £20 to £460 per annum. Applicants should be Members of the Royal Institution of Chartered Surveyors.

The above scales are exclusive of cost-of-living bonus, which is at present £59 16s. per annum.

The successful applicants will be subject to the provisions of the Local Government Superannuation Act, 1937, and will be required to pass a satisfactory medical examination.

Application forms can be obtained from C. H. Elkins, County Architect, Shire Hall, Warwick, on or before the 15th October, 1946.

L. EDGAR STEPHENS, Clerk of the Council. 591
Shire Hall, Warwick.

OFFICIAL APPOINTMENTS.

ARCHITECTURAL ASSISTANTS WANTED.

Ministry of Works invite applications to fill vacancies for **ARCHITECTURAL ASSISTANTS**, either male or female, in an unestablished capacity, for Drawing Office duties in London. Applicants should have had an approved period of recognized training. Experience with a practising Architect, Local Authority or Government Department would be regarded as a considerable advantage, but candidates without the latter qualifications would receive consideration.

Salary: Up to £510 per annum inclusive, according to qualifications and experience.

An application from anyone at present employed by another Government Department cannot be considered unless his services have been declared redundant with his present Department.

Apply in writing to Chief Architect, W.G.10/JWG, Room 10, Ministry of Works, Abell House, John Islip Street, London, S.W.1. 592

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited from qualified persons for the permanent appointment of Architectural Assistant (Grade C) in the Borough Engineer and Surveyor's Department.

Candidates must be Associate Members of the Royal Institute of British Architects, or hold an equivalent qualification, and have general knowledge and experience of architectural work.

The salary will be in accordance with Grade C of the Council's Grading Scheme for official staff, i.e., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum, plus war bonus, at present £59 16s. per annum, but the commencing salary may be increased according to the qualifications and experience of the persons appointed.

The Council have decided to apply the National Salary Scales, and the salary for these posts will be subject to revision in the near future.

There is also a vacancy for a temporary Architectural Assistant at the same salary, and candidates should indicate whether they would accept this appointment, which is likely to exist for at least two years.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, to the Council's conditions of service for official staff in force from time to time, and the successful candidates will be required to pass a medical examination.

Applications on the form provided must be delivered to the undersigned, together with copies of three recent testimonials, not later than Monday, 28th October, 1946.

Canvassing in any form will disqualify.

H. A. EDWARDS, Town Clerk. 593
Town Hall, East Ham, E.6.
11th October, 1946.

NEWCASTLE-UPON-TYNE EDUCATION COMMITTEE.

TECHNICAL SCHOOL OF BUILDING CRAFTS.

Wanted, for January, 1947, a **HEADMASTER** for the above school (present accommodation 300; future increase to 360 proposed). Salary in accordance with the Burnham Primary and Secondary Schools Report, 1945; the school is at present Grade III.

Form of application and conditions of appointment will be sent on receipt of a stamped addressed foolscap envelope. Completed forms to be returned to the undersigned within 14 days of the appearance of this advertisement.

THOS. WALLING, Director of Education. 594
City Education Office, Northumberland Road, Newcastle-upon-Tyne, 1.

COUNTY BOROUGH OF WEST BROMWICH.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following permanent appointments:—

(a) **Senior Architectural Assistant.** Salary £450 per annum, rising by annual increments of £15 to £510 per annum.

(b) **Architectural Assistant.** Salary £420 per annum, rising by annual increments of £15 to £465 per annum.

(c) **Architectural Assistant.** Salary £390 per annum, rising by annual increments of £15 to £435 per annum.

All the above salaries are exclusive of the cost-of-living bonus, which is at present at the rate of £59 16s. per annum.

Preference will be given to candidates who are Registered Architects and/or Associate Members of the Royal Institute of British Architects.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical examination, and to the termination of each appointment by one month's notice in writing on either side.

Applications, stating age, qualifications, experience, and enclosing copies of three recent testimonials, should reach the undersigned not later than Saturday, the 2nd November, 1946.

JOHN G. JEFFERSON, M.Inst.C.E., Borough Engineer and Surveyor. 601
Town Hall, West Bromwich.
October, 1946.

ROBERT GORDON'S TECHNICAL COLLEGE, ABERDEEN.

SCHOOL OF ARCHITECTURE AND DEPARTMENT OF BUILDING.

Head: E. F. DAVIES, B.Arch.(Lvl.), F.R.I.B.A., F.R.I.A.S.

LECTURER AND STUDIO INSTRUCTOR IN CONSTRUCTION.

Applications are invited for the post of Full-time Lecturer and Studio Instructor in Constructional Subjects, including Steel and Reinforced Concrete.

The School is recognized for purposes of exemption from the R.I.B.A. Intermediate and Final Examinations.

Applicants must be Members of the Royal Institute of British Architects, and should possess the Degree or Diploma of a recognized School of Architecture. Teaching and professional experience are desirable qualifications.

Members of the Staff of the School are normally afforded reasonable opportunities for practice and research.

Salary: £600-£785. Commencing salary according to qualifications and experience.

The successful applicant will be expected to take up duties as soon as possible, but consideration will be given to applications received from men who may still be on National Service. Applications, accompanied by three recent testimonials and names of three referees, should reach the undersigned (from whom further particulars may be obtained) by 31st October, 1946.

A. C. WEST, Director. 604

BOROUGH OF MALDEN AND COOMBE.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

The Council invite applications for the following permanent appointments from persons suitably qualified at salaries in accordance with and subject to the Scheme of Conditions and Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, plus cost-of-living bonus, at present £59 16s. per annum.

The appointments will be terminable by one month's notice on either side, subject to the provisions of the Local Government Superannuation Act, and to the successful applicants passing a medical examination.

Applications, stating age, qualifications, and full details of previous experience, with salaries and designations, together with copies of two recent testimonials, should be sent to the undersigned not later than 21st October, 1946.

(1) **ASSISTANT BUILDING INSPECTOR** (Grade II). £380-£425. Experience in building construction and the Civil Building Licensing Regulations.

(2) **ARCHITECTURAL ASSISTANT** (Grade II). £380-£425. General experience, should be good draughtsman, and be engaged on a course of training leading to a recognized architectural qualification.

(3) **ENGINEERING ASSISTANT** (Grade I). £350-£395. General experience, should be good draughtsman, and be engaged on a course of training leading to a recognized engineering qualification.

HAROLD E. BARRETT, Town Clerk. 584
Municipal Offices, New Malden, Surrey.

BRADFORD EDUCATION COMMITTEE.

TECHNICAL COLLEGE, BRADFORD.

Applications are invited for appointment as Temporary ASSISTANT LECTURER, qualified to prepare students for the Sanitary Inspectors' Examination.

Membership of the Royal Sanitary Institute is essential, and additional qualifications in Sanitation and Building are desirable.

Basic salary according to the Burnham Scale, which is from £300 to £525 per annum. Commencing salary according to qualifications and experience. The commencing salary may, subject to approval, be increased up to a maximum of ten increments of £15 per annum in respect of approved service in industry.

Further particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed forms should be returned to the Principal of the College within two weeks from the date of publication of this advertisement.

THOS. BOYCE,

Director of Education.

September, 1946.

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CHESTERTON RURAL DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the above appointment from persons who must be Registered Architects and members of the Royal Institute of British Architects.

The salary will be in accordance with Grade IV of the A.P.T. Division of the National Joint Council Scales, viz., £420 per annum, rising by annual increments of £15 to a maximum of £465 per annum.

Applicants must have had experience in the preparation of sketch designs, working drawings, details and specifications, etc., with particular reference to Housing. A knowledge of Planning and Quantities will be an advantage.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, the passing of a medical examination, and to determination by one month's notice on either side.

Applications, with copies of three testimonials, are to be made on forms obtainable from the Clerk's Office, and must be received by the undersigned not later than 19th October, 1946.

W. H. HAYWARD,

Clerk of the Council.

County Hall, Hobson Street, Cambridge.

1st October, 1946.

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BOROUGH OF ILFORD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the appointment, on the temporary staff, in the Department of the Borough Engineer and Surveyor, of Two Architectural Assistants, as follows:—

(a) One Architectural Assistant, at a salary of £460 per annum (plus cost-of-living bonus of £59 16s. per annum and £20 London weighting).

Applicants for this appointment should be registered Architects and Associate Members of the Royal Institute of British Architects, and have a thorough knowledge of Architectural Works, with practical experience in the design and development of Public Buildings of all types, Housing Schemes, etc., and the preparation of specifications, and be capable of supervising and controlling contracts.

(b) One Architectural Assistant, at a salary of £420 per annum (plus cost-of-living bonus of £59 16s. per annum and £20 London weighting). Applicants for this appointment should be Associate Members of the Royal Institute of British Architects, and must have had good general experience in Architectural Works for Municipal Buildings, Housing Schemes, etc., and in the preparation of working drawings and specifications.

The appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination by the Council's medical officer.

The appointments will be subject to one month's notice on either side.

Applications, in a sealed envelope, endorsed "Architectural Assistants (a) or (b)," stating age, qualifications and experience, accompanied by copies of three recent testimonials, should be forwarded to reach the undersigned by Saturday, 10th October, 1946.

Canvassing, either directly or indirectly, will be a disqualification.

CHARLES N. ROBERTS,

Town Clerk.

Town Hall, Ilford.
30th September, 1946.

582

NORTH RIDING EDUCATION COMMITTEE.

Applications are invited for the following two posts:—

(a) QUANTITY SURVEYOR. Salary according to Administrative, Professional and Technical Grades V and VI of the National Joint Council Scales i.e., £460 a year, rising by annual increments, subject to satisfactory service, to £600 a year, plus cost-of-living bonus, at present £59 16s. a year.

(b) ARCHITECTURAL ASSISTANT. Salary according to Administrative, Professional and Technical Grades III and IV of the National Joint Council Scales, i.e., £390 a year, rising by annual increments, subject to satisfactory service, of £15 to £465 a year, plus cost-of-living bonus, at present £59 16s. a year. Motor car and subsistence allowances will be paid in accordance with the scale of the County Council. It is desirable that applicants should be Associates of the Royal Institute of British Architects, with experience in surveys and the design and maintenance of school buildings.

The appointments will be subject to the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination by the County Medical Officer. Further particulars and application forms may be obtained by sending a stamped addressed foolscap envelope. Completed applications should be returned to me, with copies of two recent testimonials, not later than 25th October, 1946. Canvassing will disqualify.

F. BARRACLOUGH,

Secretary.

Education Offices, County Hall,
Northallerton.

561

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of TWO SENIOR ASSISTANT ARCHITECTS, on the permanent staff, at a salary in accordance with Grade VI of the Administrative, Professional and Technical Division of the National Scale (commencing at £535 per annum, rising by two annual increments of £20 and one of £25 to £600 per annum, plus cost-of-living bonus, at present £59 16s. per annum).

Applicants must be Associates R.I.B.A., who have had considerable experience in the design and construction of modern buildings. Previous experience with a Public Authority is not essential in the case of candidates with outstanding qualifications in architectural design.

The appointment will be terminable by one calendar month's notice on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937, and to a medical examination.

Forms of application are not being issued in this instance.

Applications, stating age, qualifications, and experience, and particulars of present and previous appointments with dates, salaries and designations, together with the names and addresses of three persons to whom reference can be made, must be delivered to F. R. Steele, F.R.I.B.A., F.S.I., M.T.P.I., County Architect, County Hall, Chichester, endorsed "Senior Assistant Architect, Grade VI," not later than Friday, the 18th October, 1946.

Canvassing will disqualify, and applicants must disclose whether to their knowledge they are related to any member of the Council or the Head of any Department or his standing Deputy.

T. C. HAYWARD,

Clerk of the County Council.

County Hall, Chichester.
26th September, 1946.

566

COUNTY BOROUGH OF NEWPORT, MON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointment:—

ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Commencing salary £535 per annum, plus cost-of-living bonus, £59 16s. per annum (Grade VI).

The salary for the above appointment will be in accordance with the Scheme of Conditions of Service, National Joint Council of Local Authorities' Administrative, Professional, Technical and Clerical Services.

Applicants should have had experience in the preparation of Specifications, Bills of Quantities, Estimating, Measuring, and the Settlement of Final Accounts.

The appointment is subject to the Corporation's Conditions of Service and Superannuation Scheme, and the successful candidate will be required to pass a medical examination.

Applications, stating qualifications and accompanied by not more than three testimonials, must reach me not later than Monday, the 21st October, 1946.

JOHNSON BLACKETT, F.R.I.B.A.,

Borough Architect.

Town Hall, Newport, Mon.
September, 1946.

568

CITY OF STOKE-ON-TRENT.

CITY ARCHITECTURAL DEPARTMENT.

APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the above appointment.

Preference will be given to members of the Chartered Surveyors' Institution, competent to take off, abstract and bill quantities, prepare estimate, interim certificates, and final accounts. Salary £460-£510. The commencing salary will be fixed within, or at the maximum of, this grade, according to qualifications and experience, plus cost-of-living bonus, at present £59 16s. per annum.

The appointment will be subject to one calendar month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, stating date of birth, qualifications and experience, and particulars of present and previous appointments, together with copies of two recent testimonials, must be delivered to the undersigned, endorsed "Assistant Quantity Surveyor," on or before Friday, the 25th October, 1946.

HARRY TAYLOR,

Town Clerk.

Town Hall, Stoke-on-Trent.
30th September, 1946.

586

URBAN DISTRICT COUNCIL OF HORNCHURCH.

SURVEYOR'S DEPARTMENT.

Applications are invited for the under-mentioned appointments, at a salary of £360 per annum, rising by annual increments of £15 to a maximum of £405 per annum, plus cost-of-living bonus (at present amounting to £59 16s. per annum) each:—

(a) BUILDING INSPECTOR. Previous experience in this capacity is essential.

(b) ENGINEERING ASSISTANT. Applicants should have had experience in Engineering, and be competent in the preparation of surveys, working drawings, and quantities for Engineering schemes.

The appointments will be subject to the successful applicants passing a medical examination, to the provisions of the Local Government Superannuation Act, 1937, and to termination by one month's notice on either side.

Applications, stating age, qualifications and experience, accompanied by copies of three recent testimonials, and endorsed "Building Inspector" or "Engineering Assistant," as the case may be, should be delivered to the undersigned not later than Wednesday, the 30th October, 1946.

Canvassing, directly or indirectly, will disqualify.

P. L. COX,

Clerk of the Council.

Council Offices, Billet Lane, Hornchurch.
25th September, 1946.

565

Partnerships

Six lines or under, 10s.; each additional line, 1s. 6d.

CHARTERED SURVEYOR, with extensive practice, chiefly domestic Architecture, requires A.R.I.B.A. as partner; temporary office, Croydon. Write, giving full details of training and experience, and capital available, to Box 570.

ARCHITECT, no longer young, with several small jobs in hand and four schools in prospect, offers a Junior Partnership to one younger, well up in School construction; no salary offered and no premium asked for partnership; office within 15 miles east of London. Reply, giving full particulars, to Box 607.

Architectural Appointments Vacant

Four lines or under, 5s.; each additional line, 1s. 6d.

Wherever possible prospective employers are urged to give in their advertisements full information about the duty and responsibilities involved, the location of the office, and the salary offered. The inclusion of the Advertiser's name in Neu of a box number is welcomed.

TWO JUNIOR ARCHITECTURAL ASSISTANTS required for progressive positions in the Architects' Department of a large chain store organisation; age preferred 19-25. Please write in confidence to Staff Manager, "R" Department, British Home Stores, Ltd., Abbey House, Baker Street, London, N.W.1.

993

ASSISTANT ARCHITECTS required in Manchester Office; should be experienced in commercial and industrial work, good draughtsmen, with sound knowledge of general construction; salary up to £400 per annum, according to qualifications (plus war bonus of £75); good prospects of promotion for competent assistants; successful candidates will be required to pass a medical examination for entry into compulsory Superannuation Scheme. Applications, stating educational qualifications, experience and age, with copies only of testimonials, to Box 940.

SENIOR and JUNIOR ASSISTANTS required immediately for Housing, Conversations and Town Planning. Reply to Atherton & Brencley, 36, Paddington Street, Baker Street, W.1. Welbeck 6354.

MANCHESTER.—SENIOR ARCHITECTURAL ASSISTANTS required immediately; salary £500-£600, according to qualifications and experience. Also **SENIOR ASSISTANT QUANTITY SURVEYOR**; £450-£500. Ernest A. Newton, Leach & Booker, Chartered Architects, 28, Kennedy Street, Manchester. 524

ARCHITECTURAL ASSISTANT required immediately by Builders and Contractors engaged on Housing and Factory work; applicant must be keen, energetic, and able to prepare working drawings, surveys, road layouts, etc.; good progressive position to right man; salary up to £450 p.a. L. F. Halton, L.R.I.B.A., Company Architect, E. O'Sullivan, Lt., Cray Avenue, St. Mary Cray, Kent. Telephone: Orp. 3737. 551

ARCHITECTURAL ASSISTANT required; must have passed intermediate R.I.B.A., and be capable of making working drawings for small houses. E. F. Tew, Dip. Arch. (Glas.), A.R.I.B.A., 7, Northumberland Buildings, Bath. 560

ARCHITECTURAL ASSISTANT required; to take over interesting and responsible work in Architects' Department of large Industrial and Commercial Company; commencing salary £10. Box 569.

ARCHITECTURAL ASSISTANT, experienced in taking charge of housing and flat development schemes, conversions, schedules of dilapidations and war damage repairs, wanted for busy office in N.W.; must be reliable and accurate worker; excellent prospects for keen man. Write, stating age, qualifications, salary required, and when available, to Box 571.

ARCHITECTURAL ASSISTANTS (Junior and Senior) required by private office, Watford area; engaged on housing, schools, commercial and industrial buildings. Apply Box 572.

ARCHITECTURAL ASSISTANT required for progressive London firm of architects; good prospects for keen and energetic man. Write, giving details, to Box 573.

YOUNG ASSISTANT; keen and ambitious; probationer or Student R.I.B.A.; for busy office in S.E. Kent. Box 574.

LONDON PASSENGER TRANSPORT BOARD.—Applications are invited for appointments on the temporary staff of the Architect's Office as follows: **ASSISTANT ARCHITECTS**, **ARCHITECTURAL ASSISTANTS**, **TENTS**, **STRUCTURAL ENGINEERING ASSISTANTS**. Salaries range from £250 to £465 per annum, according to ability, qualifications and experience, plus war advance, at present £72 16s. per annum. Applications, which should give a brief outline of training and experience, to be sent to Assistant Staff Officer (ER/E.261), 55, Broadway, Westminster, S.W.1, or by telephone ABBEY 1234, extension 194. 575

YOUNG QUALIFIED ARCHITECT, with imagination and brilliance, required by well-known Hampshire building company; work includes estate layouts, new houses and flats, alteration jobs, and war damage specifications; applicants must be competent to negotiate with Local Authorities; state age, experience, qualifications and salary required; accommodation available shortly. Box 576.

MESSRS. DAWE & CARTER, Architects, 83, High Street, Watford, have vacancy for one Public or Secondary School boy as articulated pupil; should be 17, and have passed school certificate; premium. 577

WANTED, on Prefabricated Permanent Houses, experienced Structural Draughtsmen, for Gloucester-Cheltenham district; good salaries and interesting future. Apply Box 578.

WEST END Surveyors require qualified Surveyor; to take complete charge of department dealing with W/D claims, compensations, schedules of repairs and conditions; good salary and prospects for right man; must have experience. Box 581.

ARCHITECTURAL ASSISTANTS are required throughout the United Kingdom by several Government Departments, at salaries up to £250 per annum (including consolidated allowances), according to qualifications and experience. Non-established posts.

Applicants, who should have had 5 years' of training and experience, should write, quoting EA/AA, to the Ministry of Labour and National Service, Technical and Scientific Register, Room 267, York House, Kingsway, London, W.C.2. 606

QUANTITY SURVEYORS are required by several Government Departments for temporary posts, at salaries varying from £300-£300 per annum. Vacancies exist throughout the United Kingdom.

Applicants should write, quoting EA/QS, to the Ministry of Labour and National Service, Technical and Scientific Register, Room 267, York House, Kingsway, London, W.C.2. 605

ARCHITECT'S ASSISTANT required. Apply, stating age, experience, and salary required, to Henry C. Smart & Partners, Architects, 251-3, Finsbury Pavement House, 120, Moorgate, London, E.C.2. 600

GENERAL SURVEYING ASSISTANT wanted, with good general practice experience; must be able to prepare plans of small buildings and alteration work; ability to use level an advantage; war damage claims, schedules of dilapidations, etc.; South Essex. Please reply, giving full particulars of age, experience, and salary required, to Box 603.

WANTED, young Architect as Assistant, in South Leicestershire, with view to future Partnership; one used to Housing Work preferred.—Apply Box 609.

LEY, COLBECK & PARTNERS have a vacancy for a Senior Draughtsman, who has at least 5 years' experience of London practice. Phone London Wall 2917. 596

ARCHITECT'S ASSISTANT required; must be good draughtsman; working drawings, details and good knowledge of construction; experience in supervision an asset. Write, stating previous experience and salary required, to H. S. Goodhart-Rendel & Partners, 13, Crawford Street, W.1. 598

Architectural Appointments Wanted

Advertisements from Architectural Assistants and Students seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice.

JUNIOR ARCHITECTURAL ASSISTANT (22, ex-R.A.F. pilot) desires position in Architect's Office, within reasonable distance of Aldershot; 3½ years' office experience; good draughtsman, with knowledge of drawing office routine; surveying, levelling, sketching, and preparation of working drawings. Box 119.

ARCHITECT'S JUNIOR ASSISTANT requires situation; moderate salary for further experience. Apply, Miss S. E. Shibley, 3, Crescent Road, Reigate, Surrey. 120

STUDENT, young lady, school certificate, and one year in school of architecture, seeks position in an Architect's Office, in Birmingham district, for further training. Box 123.

ARTIST, accustomed to Architectural subjects in water colour; spare time might suit. Box 124.

B.A., A.R.I.B.A., just completed University course, desires position with progressive firm of Architects, Manchester or London areas (own interests—theatre and cinema, church, and public work); salary by arrangement. Please reply to Box 126.

ARCHITECT'S ASSISTANT (age 23½), 1st part Intermediate R.I.B.A., with 4 years' varied experience in the preparation of working drawings, half inch and full size details, surveys, etc., desires appointment in progressive Architect's office; London area. Write Box 128.

SENIOR ASSISTANT, A.R.I.B.A., urgently requires post where house is available; anywhere considered; hard work no objection; salary secondary to house. Box 130.

A.R.I.B.A., Registered Architect, age 25 years, 10 years' varied experience, domestic, industrial, brewery works, etc.; able to write specifications, take off quantities and supervise jobs, seeks post in the Manchester or Cheshire area; salary £500 per annum. Box 129.

INTERIOR Decoration Expert (aged 31) desires responsible position in or north of London; over 13 years' experience of domestic, cinema, shop and exhibition architecture and interior design; good draughtsman, with sound knowledge of contemporary design and materials; salary £500. Box 127.

Other Appointments Vacant

Four lines or under, 5s.; each additional line, 1s. 6d.

ESTIMATING CLERK required by South London Building Contractors; knowledge of current prices imperative; capable of quantity surveying from plans and specifications and supervising costing department. Write, stating age, experience, and salary required. Box 597.

Other Appointments Wanted

Four lines or under, 2s. 6d.; each additional line, 1s.

MECHANICAL ENGINEER / DESIGNER; wide industrial experience; offers part-time assistance to Architect, in London area, engaged on prefabrication or industrial design. Box 508.

PERSPECTIVES executed in any medium. Box 591.

PERSPECTIVES, Pencil, and other medium executed well and quickly. Box 599.

QUANTITY SURVEYOR desires spare-time commissions for the preparation of detailed Bills of Quantities, Estimates, etc., from plans and specifications; co-operative basis with architects welcomed. Box 513.

ASSISTANCE offered in spare time on site surveys, tracing, draughtsmanship, working-out drawings, design, etc.; 20 years' experience. Box 542.

AN accurately detailed scale model of your scheme will greatly assist and please your clients; moderate fees; enquiry in confidence and without obligation. Box 554.

TYPIST can now take on work from Architects; specifications, bills of quantities, etc.; own office. Sharp, 58, Charlwood Road, Putney, S.W.15. 562

FREE October 1st.—Representative, combining sound design, experience decorative metals, plastics, etc., with live connection architects and important builders and shopfitters; Midlands preferred. Box 106.

A.R.I.B.A., A.M.T.P.I., offers assistance to other Architects from own home; excellent designer, housing, commercial, war damages, etc. Box 588.

PERSPECTIVES, Sketch Plans, and other drawing office work carried out by first-class draughtsman. Box 589.

SEC./SHORTHAND-TYPIST, aged 29 years, seeks position in Architect's office; 13 years' experience; good speeds. Miss Johnson, 45, Vesta Road, S.E.4. 502

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Four lines or under, 5s.; each additional line, 1s. 6d.

LIMITED No. of Copies 1st Report of the "Committee for the Industrial and Scientific Provision of Housing (Social, Commercial and Technical Requirements of Quantity Production)," 5s.; 2nd Report "Some Technical History and Considerations," 10s. N. Fielker, 609, Nelson House, Dolphin Square, S.W.1. 537

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WANTED—Complete set of "Typography." Box 487.

OFFICE ACCOMMODATION required by Architect; two or three rooms, about 600 ft. super; Victoria preferred, but would consider any district in London. Box 515.

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YOUNG Scots Architect requires permanent Lodgings in London area. Box 590.

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R.I.B.A. and T.P. INST. EXAMS. Private Courses of Tuition by correspondence arranged by Mr. L. Stuart Stanley, M.A., F.R.I.B.A., M.T.P.I. Tutor, 212, Buxton Road, N.W.1. Tel.: EUS. 7760.

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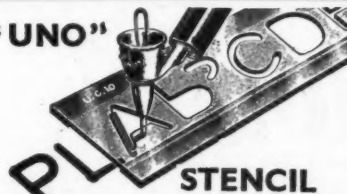
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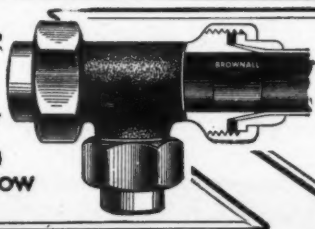


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