

To put a complete flawless skin of lead on a Glazing Bar of a section such as that shown above is quite a work of art.

The photograph shows the first step, the lead cover of a Helliwell Curbstone Bar being extruded through a precision die that ensures a glove-like fit and a cover of the correct thickness. In every stage the craftsman's pride in his work plus rigid inspection make certain that Helliwell Patent Glazing can always be specified with confidence.

Although lead is in short supply small quantities are available for essential jobs.

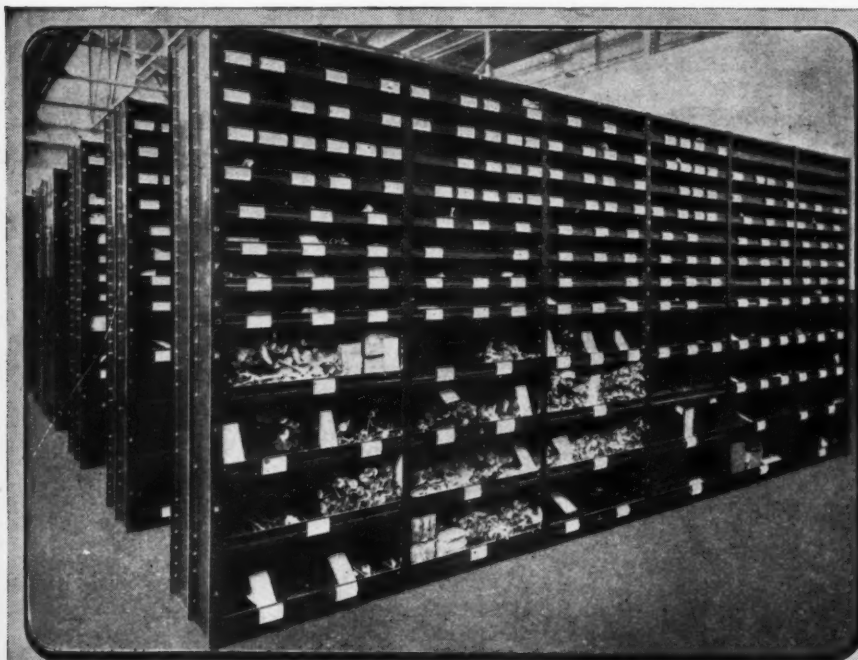
Write for Information Sheet giving details of Helliwell Patent Glazing systems.

specified with confidence

HELLIWELL
patent glazing

HELLIWELL & CO. LTD., Brighouse, Yorkshire and 68 Victoria Street, London, S.W.1
Birmingham - Bristol - Manchester - Sheffield - Hull - Glasgow - Aberdeen - Dublin

G.I.



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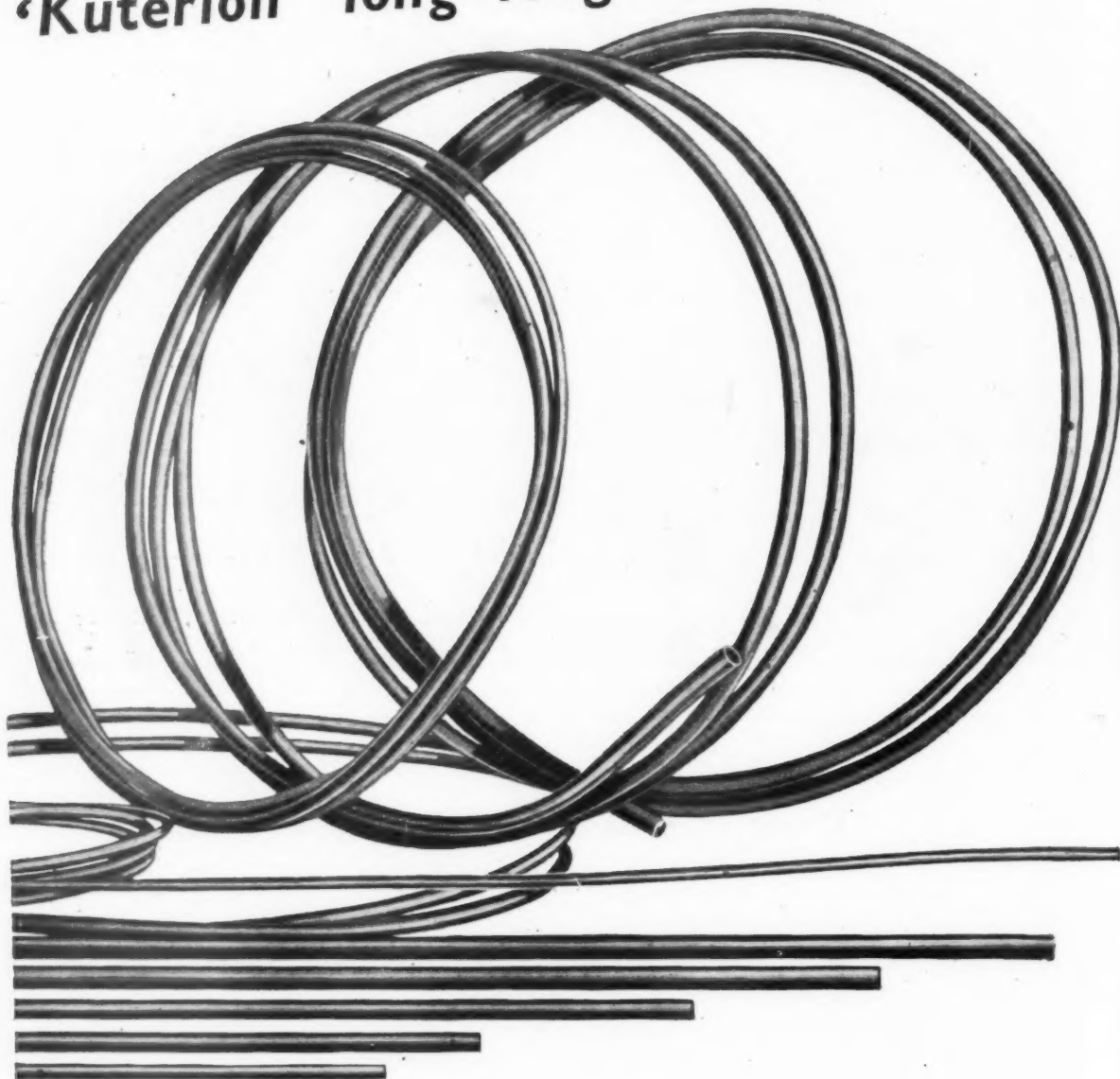
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Harvey Steel Equipment, whilst being Fire-resisting, Hygienic and Vermin-proof, also possesses the added advantage of perpetual durability and security. Adjustable Storage Bins can be arranged to form a stack giving accommodation exactly as required. 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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"KUTERLON" long length copper tubing is specially designed for underground gas and water services. Strong, ductile and resistant to soil corrosion, it is supplied in conveniently handled coils of 30, 45 and 60 feet lengths and in straight lengths up to 20 feet. In either form "Kuterlon" can be bent by hand without annealing.

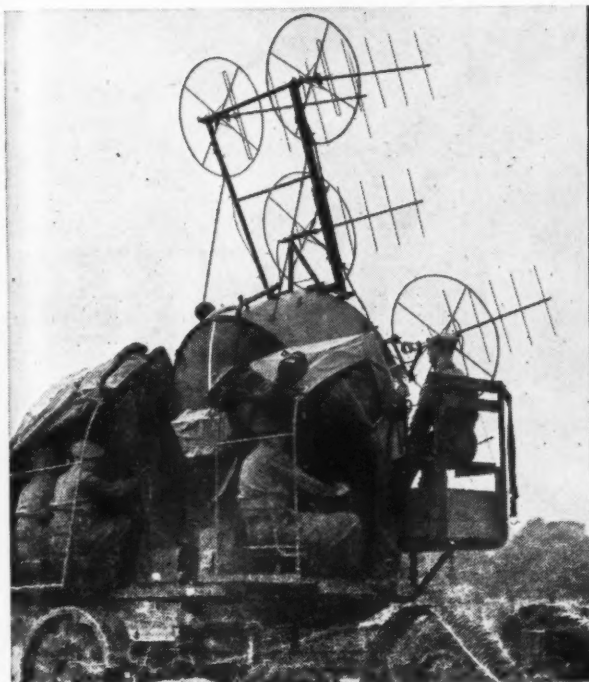
Further details may be had on request.

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LONDON, S.W.1



M.88

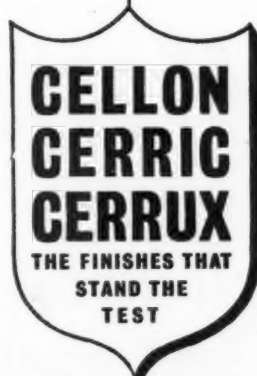
FROM RADAR TO RADIOGRAMS



What has the din of war to do with the music of peace? Nothing very much—except to the makers of Cellon Protective Finishes. Not so long ago we were devoting all our time and energy to the production of finishes that would (and did) stand the test of total war. This valuable experience is helping us today to solve the new and no less difficult finishing problems of peacetime industry. The

technical service department of Cellon Ltd. is ready to co-operate with *you* in providing the most attractive and durable finish for your product—whatever that may be.

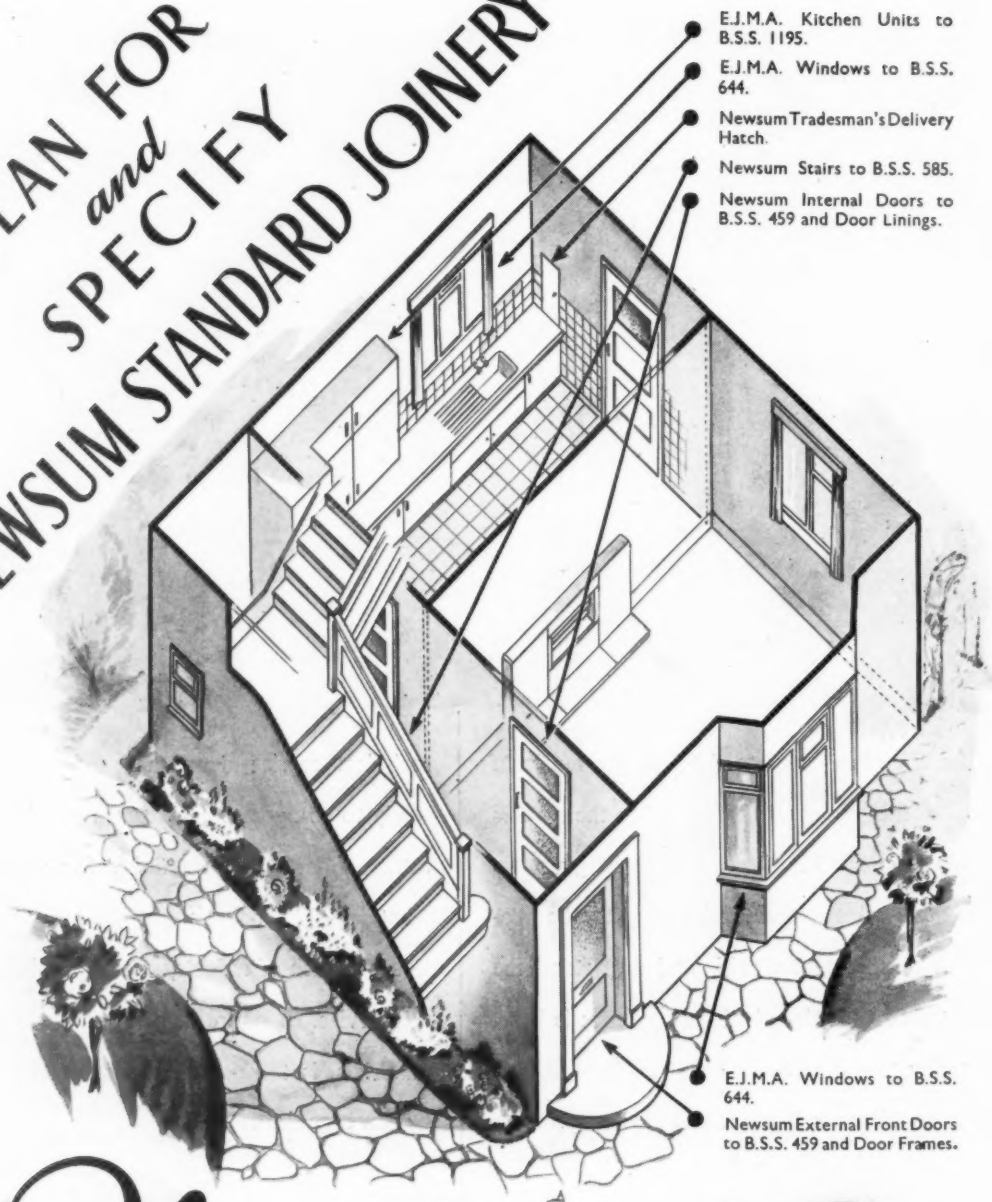
Every branch of industry comes within the scope of this service. No problem, apart from shortage of materials, is too great and none too small for the Cellon organisation.



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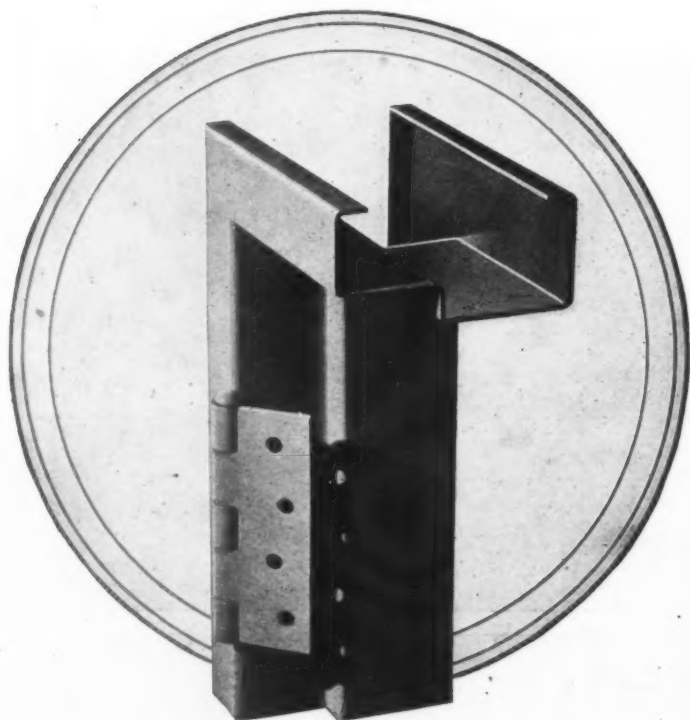
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Magic war-time words

in the public ear, meaning a practical down-to-earth job of work in which the government's needs were paramount, and "K & S" met them *on time*. This was part of aerodrome extensions including accommodation and services for 3,000 extra personnel.

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PRESSED STEEL SKIRTING
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Metal Trim will undoubtedly play an important part in post-war construction, and those interested are welcome to a copy of our catalogue. For the time being, of course, we are only able to execute orders carrying Government permits.

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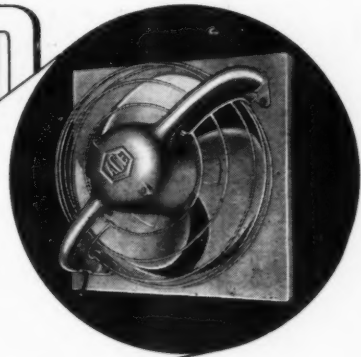
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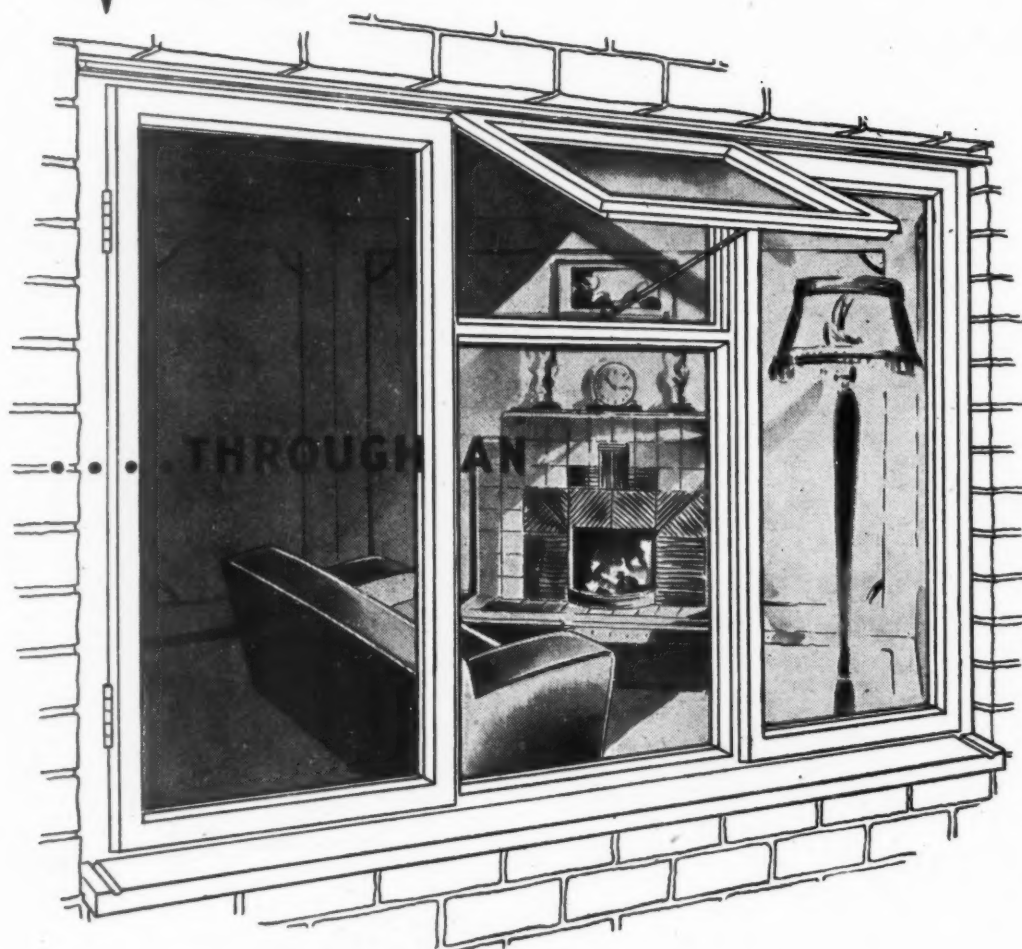


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THE AUSTIN-HALL GROUP OF COMPANIES

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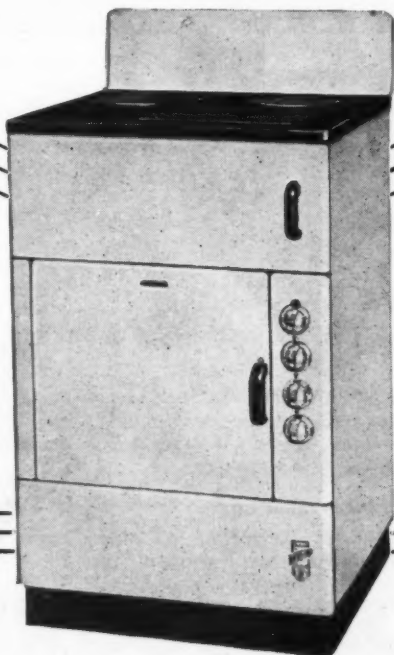
Domestic Appliances

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

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



**The ENGLISH
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This main frame casting for a straight-line edger measures 5' 8" \times 3' 8" \times 3' 5". In strong heat-treated aluminium alloy it weighs 642 lb. Machine-tool manufacturers are turning to Light Metal castings because of their low cost, guaranteed soundness and high shock resistance. Light Metal castings are easily handled and may be machined at high speeds; they cut labour costs and increase production.

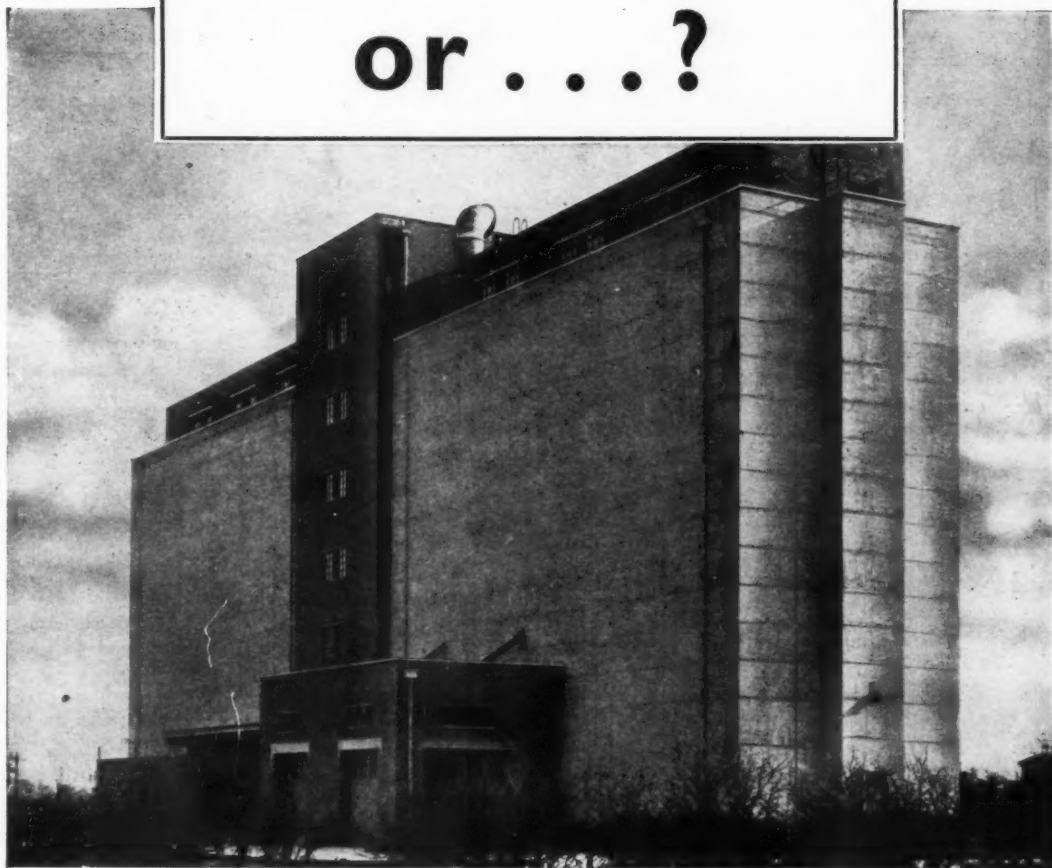
- *Aluminium costs less than ever before, and is available in unlimited quantities. Renfrew Foundries Ltd. will be pleased to co-operate in redesigning components as aluminium alloy castings.*



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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.*

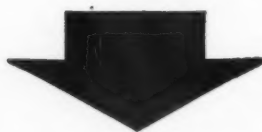
Regional Organization

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

DOES STYLING MATTER IN SELLING HEATING ?



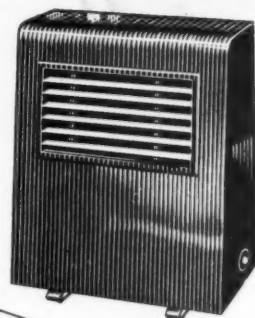
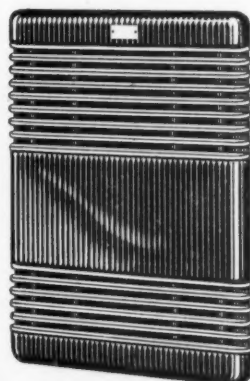
WE SAY YES! It is now accepted that space heating is more efficient than a "nice coal fire." But the coal fire has an "eye appeal" that is sadly lacking in some of the metal boxes that serve as convectors.

NOW you see why, in producing Thermovent electric Space Heating, we took such pains to design heaters which would please visually as well as be completely efficient. The Thermovent models, both Floor-standing and Inset, are pleasing examples of successful Industrial Design.

MODERN PLASTICS CASINGS can be used for Thermovent heaters because of an unique feature—the casing remains cool however long the heater may be operating. This is just one of the many advantages that result from the patented Thermovent duct construction, by means of which the warm air stream is ejected with positive force, rather than being allowed just to flow from the vent.

OTHER ADVANTAGES would take more space than is available to explain in detail, but can be enumerated:- no wall blackening, more effective built in thermostatic control, more useful warmth, extreme safety, adaptability of application. Thermovent is the ideal 'central' or 'background' heating system—easily and quickly installed.

A TECHNICAL ADVISORY SERVICE is available:—
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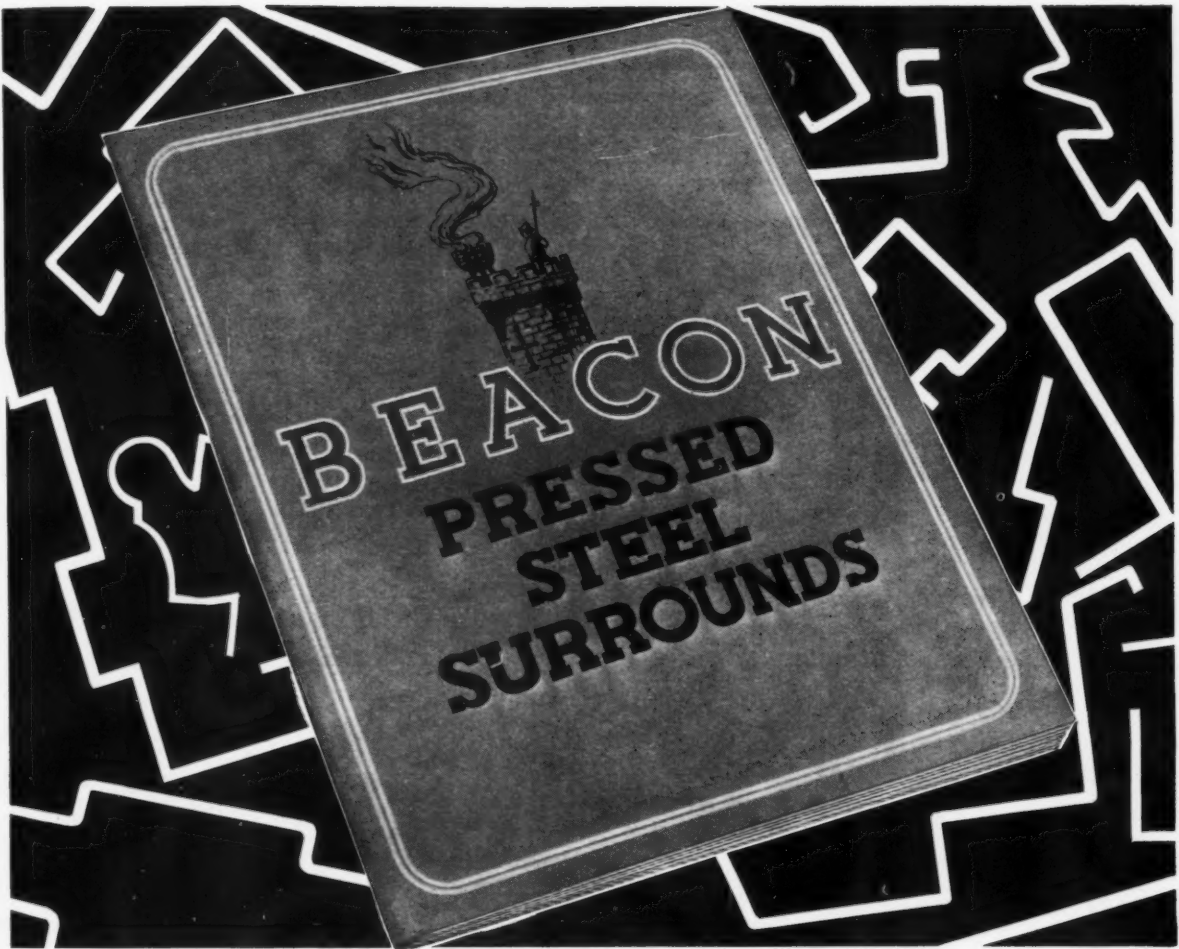


Thermovent *Electric* SPACE HEATING

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An Important book for Architects and Builders

If time is the essence of a contract; if labour costs are a deciding factor; if exclusive design from stock materials is important, then this book is indispensable to you.

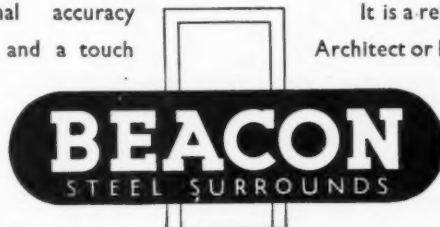
The stock range of Beacon Pressed Steel Surrounds is extensive and deliveries are prompt.

Consistent dimensional accuracy reduces installation costs and a touch

of the exclusive is yours by skilful combination of sections.

The complete range of Beacon Surrounds is illustrated in this catalogue. The sections are shown in actual sizes wherever possible and are fully dimensioned with other relevant information.

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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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THE MASTICON PROCESS

FOR

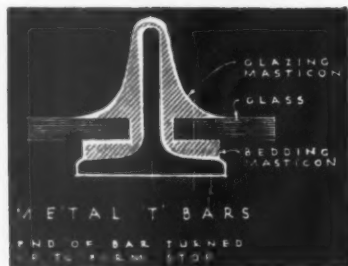
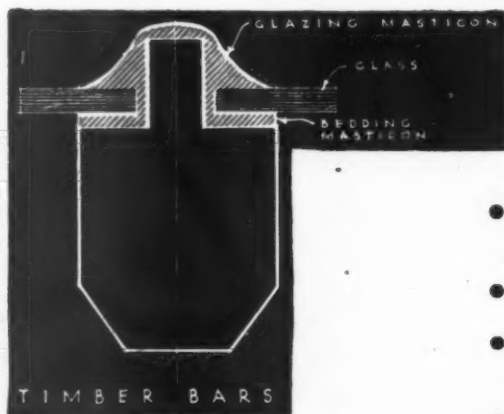
MODERN FACTORY GLAZING

by

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THE MASTICON PROCESS is a service for the glazing of roofs of Industrial premises. It combines the supply and fixing of special type metal T. bars, the glass being cushioned on

resilient Bedding MASTICON. The bars are sealed against the weather by the application of plastic GLAZING MASTICON over the exposed cap of each bar.



ADVANTAGES OF GLAZING BY THE MASTICON PROCESS

- Ensures permanently sound glazing which will withstand roof movement and vibration.
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- Eliminates painting costs.
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Our technical service is at your disposal to conduct surveys and submit estimates willingly and without obligation.

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The illustration shows a hand holding a long, cylindrical metal conduit. A cable is visible inside the conduit, extending from the bottom. The conduit has a label near the top that reads 'A.S.C.M. Walsall'. The background is dark and textured, suggesting a landscape or sky. A large, stylized 'NO' is visible in the upper left background.

NO damage **IN TRANSIT-**

of Cables travelling through "Walsall" Conduit. They arrive at the other end in the same condition as when they start—unruffled and not frayed.



The Walsall logo is an oval shape containing the word 'Walsall' in a stylized, bold, sans-serif font.

WALSALL CONDUITS LTD · WEST BROMWICH · STAFFS



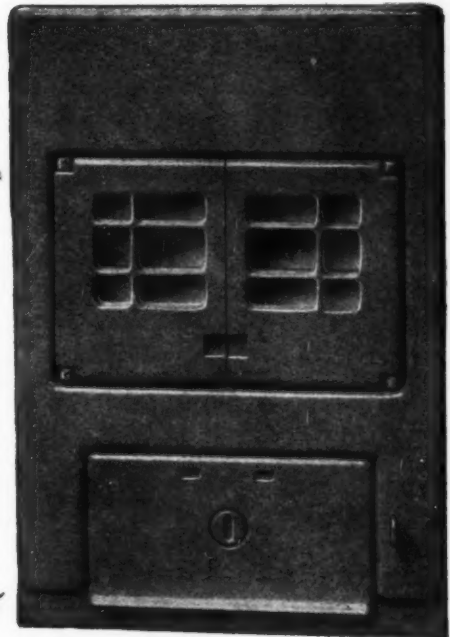
BOOTH
fireproof doors...
of course

JOHN BOOTH & SONS (BOLTON) LTD · · · HULTON STEELWORKS BOLTON



WHY THOSE

polar regions
IN THE HOME ?



No. 3D Siesta Inset Model.

As every Architect knows, good heating is the outcome of careful study and judicious planning. In a Siesta there is a medium through which he can freely express his ideas and achieve the objective of his plans.

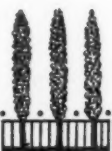
The newly designed Siesta 3D Inset Stove shown above offers a special scope where it is desired to feature "background" heating. Through ductings, convected heat is directed to any predetermined area, whether it be adjoining rooms on the same floor or bedrooms above. Coke, anthracite, coal or commercial fuels can be used.

Siesta is a high-efficiency stove because the rate of combustion is under constant control.

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you are always right



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PARK FOUNDRY BELPER DERBY

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Finest quality
Vitreous Enamel finish
in brown, green,
stone mottle and
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**May we
tell
you more
about
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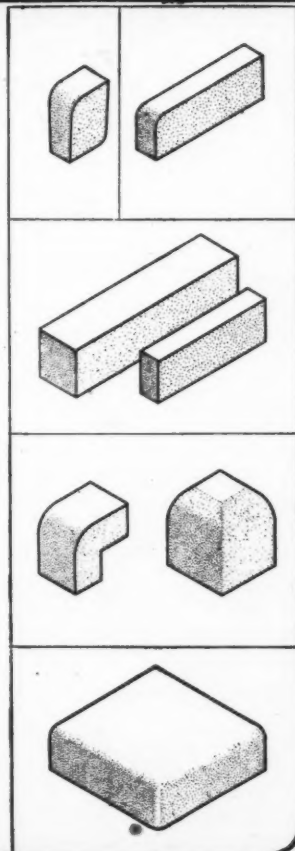
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Single-lap Roofing Tiles, Ridge Tiles (Blue and Red) and Floor Quarries.

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W.H.3

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Industrial

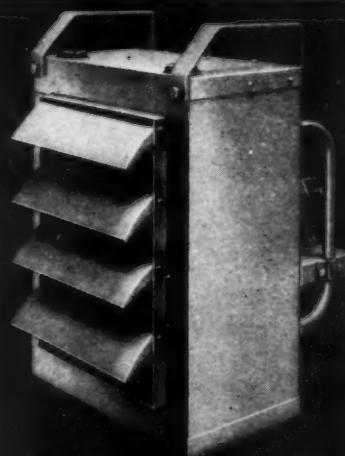
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It has been proved that installation of efficient heating in Industrial premises results in improved health standards and increased production.

Univectair suspended Unit Heaters—pioneered by British Trane—meet the widespread need in Industry for efficient and trouble-free heating equipment. Univectairs are available in a range of sizes covering all Industrial requirements. They are suitable for mounting heights from 9 feet.

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Univectair
UNIT HEATERS



STEAM, HOT WATER or ELECTRIC

For situations where a high mounting height is necessary

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downward discharge Unit Heaters are recommended. Designed for heating large floor areas, these units operate either on steam or hot water.

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LEEDS

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Ideal Towel Rails

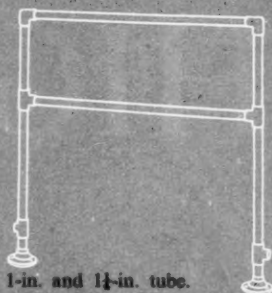
Solid-drawn Brass Tube

Chromium-plated on Nickel

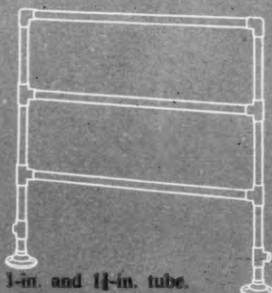


The Ideal Towel Rail illustrated above is the No. 1A with ball fitting joints. This series is available in the same range and sizes as the "P" series.

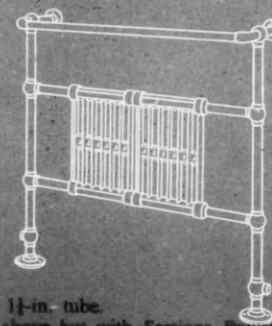
Available NOW
in these types:—



No. P-0.
Available in 1-in. and 1½-in. tube.
No. P-0A as above but with wall supports.
Height 3ft. Length 2ft. 6ins., 3ft. or 3ft. 6ins.

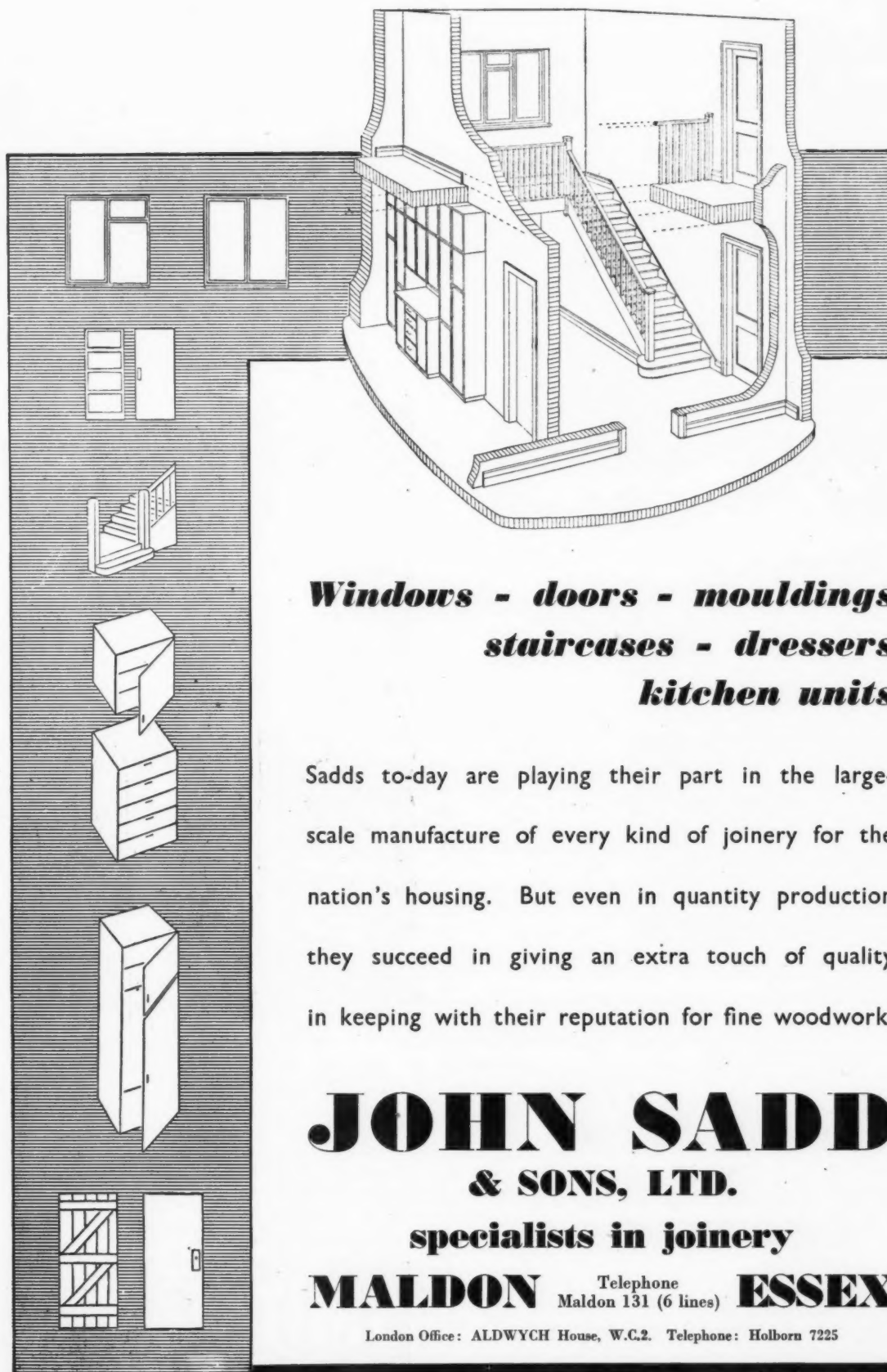


No. P-1.
Available in 1-in. and 1½-in. tube.
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Height 3ft. Length 2ft. 6ins., 3ft. or 3ft. 6ins.



No. 19A.
Available in 1½-in. tube.
No. 19B as above but with Sections Powder-barrelled. Height 3ft. Length 2ft. 6ins., 3ft. or 3ft. 6ins.

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On a night like this...

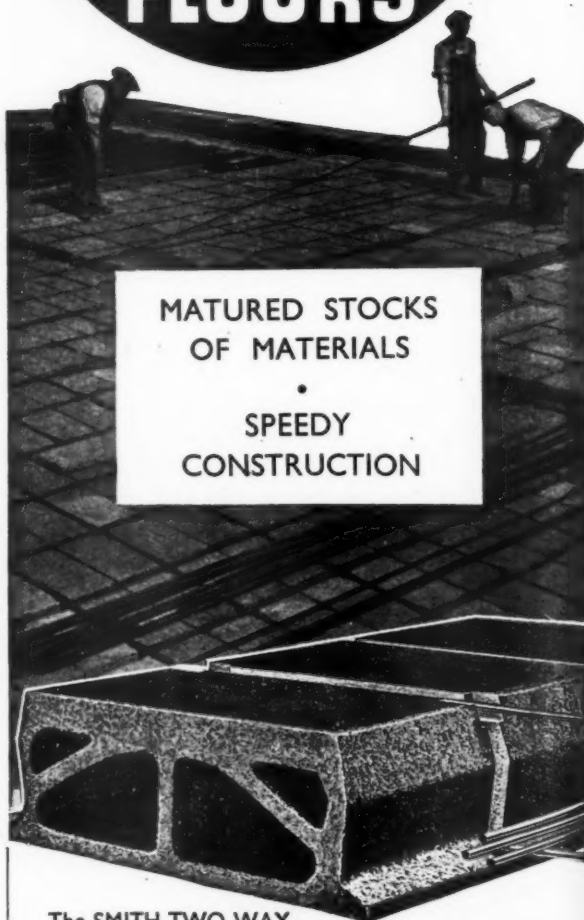
when street lights are mirrored in deserted rain-soaked pavements, and penetrating damp strikes through to the very marrow of one's bones, it is then that the weather-resisting properties of SUNDEALA Building Boards are proved beyond all doubt. SUNDEALA Boards are waterproofed throughout in a scientific manner during the various stages of manufacture and not merely surface proofed, thereby assuring greater permanence. For exteriors that must weather the weather SUNDEALA is supreme!



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SPEEDY
CONSTRUCTION

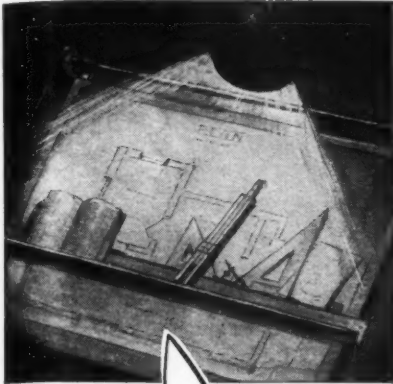
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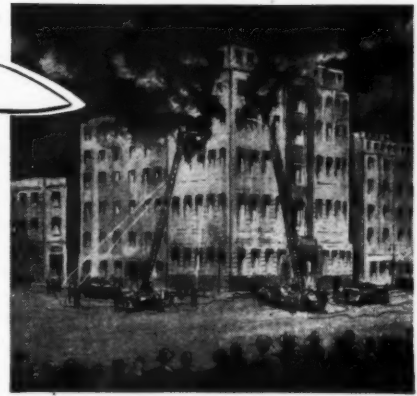
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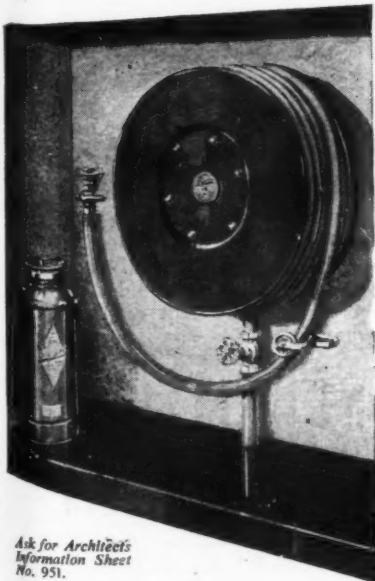
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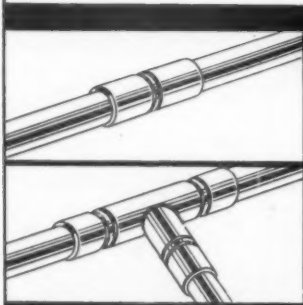
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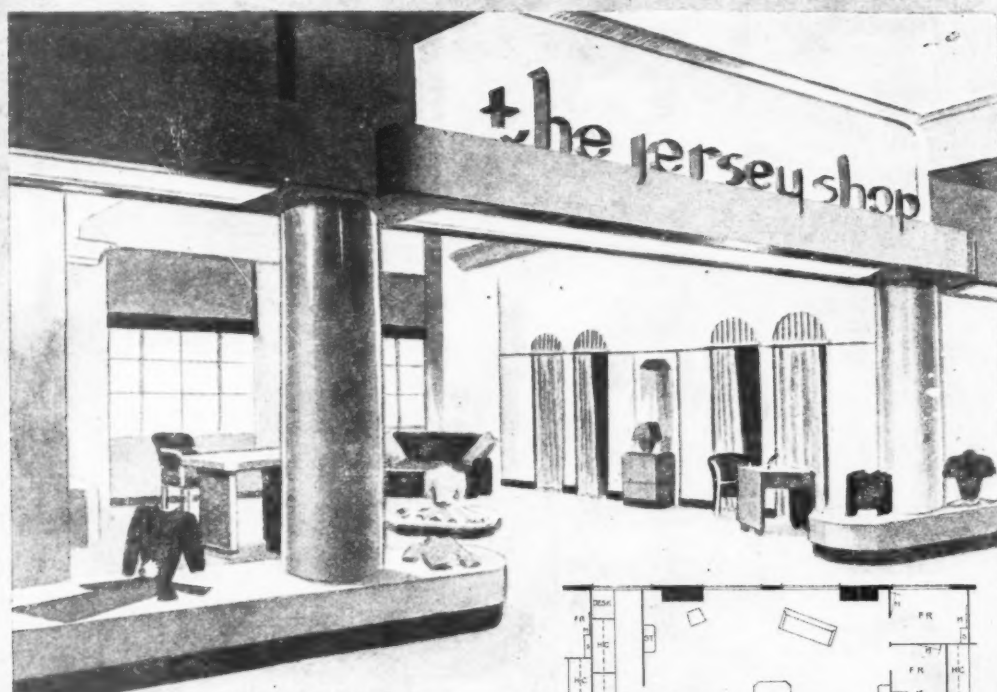
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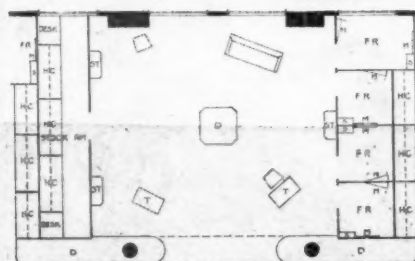


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In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order."

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DIARY FOR DECEMBER JANUARY AND FEBRUARY

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.

BIRMINGHAM. *Can the IES Code be Profitably Applied to Industry?* Debate at the Imperial Hotel, Temple Street, Birmingham. (Sponsor, IES Birmingham Centre, Midland Area.) Tea buffet 5.30 p.m. Debate 6 p.m. DEC. 6

LONDON. *Exhibition of the King's Pictures.* At the Royal Academy, Piccadilly, W. About 500 paintings in the Royal Collection, selected from all the Palaces in which the collection is permanently kept. Includes a large number of works not normally accessible to the public. Weekdays, 10 a.m. to 7 p.m. Sundays, 2 p.m. to 7 p.m. Admission 1s. 6d. Until MAR. 16

British Road Federation's First Post-War Exhibition. At the Empire Tea Bureau, 22, Lower Regent Street, W.1. Primarily the object of the exhibition is to assist road constructional engineers, designers and other technical experts to maintain contact with the new developments, both in this country and abroad. Its second feature will explain to the general public the existing highway conditions and the plans already made to alleviate the position, together with possible developments of the future. Weekdays, 10.30 a.m. to 7 p.m. Sundays, 2.30 p.m. to 6 p.m. (Sponsor, BRF.) December 5-January 11. Lunches and guests of honour at the Savoy Hotel in connection with the exhibition: December 11, Major H. E. Aldington, Chief Engineer, Ministry of Transport, December 18; Sir Patrick Abercrombie. DEC. 5-JAN. 11

Neighbourhood Planning. Exhibition at the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) Until DEC. 13

BBC. *Talk on Frank Lloyd Wright.* In the BBC Third Programme. At the beginning listeners will hear a recording made by Frank Lloyd Wright on *The Right to be Ourselves*. J. M. Richards will then discuss the place of Frank Lloyd Wright in contemporary architecture, and the Hon. L. G. B. Brett will deal with his technical methods. 10.10-10.45 p.m. DEC. 5.

Mrs. C. G. Tomley, of the Council of Industrial Design. *Interior Decorating for Small Homes.* At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. Buffet lunch 12.45 p.m. Talk 1.15 p.m. (Sponsor, HC.) DEC. 10

John Summerson, Curator, Sir John Soane's Museum. *Heavenly Mansions. An Interpretation of Gothic.* At the RIBA, 66, Portland Place, W.C. 6 p.m. (Sponsor, RIBA.) DEC. 10

John Gloag. *Planning Research for Industrial Design.* At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. Chairman, Sir Charles Tennyson, Chairman of the Central Institute of Art and Design. 5 p.m. (Sponsor, RSA.) DEC. 11

London Master Builders' Association. Central Area No. 1. *Fifth Annual General Meeting.* At Derry & Toms Restaurant, Kensington High Street, W.8. Chairman, C. E. B. Head. Guest of honour and principal speaker, G. H. A. Hughes, Director, LMBA. (Sponsor, LMBA, Central Area No. 1.) 2 p.m. DEC. 11

J. W. H. King. *The Effect of Lateral Reinforcement in Reinforced Concrete Columns.* At the Institution of Structural Engineers, 11, Upper Belgrave Street, S.W.1. 6 p.m. (Sponsor, ISE.) DEC. 12

Professor J. D. Bernal. *Is Town Planning a Science?* At the Town and Country Planning Association, 28, King Street, Covent Garden, W.C.2. Buffet lunch 12.45 p.m. Talk and discussion, 1.15 p.m. DEC. 12

G. E. Haefely. *Growing Importance of Plastics in the Electrical Industry.* At the Institution of Electrical Engineers, Savoy Place, W.C.2. 5.30 p.m. (Sponsor, IEE.) DEC. 12

Swedish Home Exhibition. At the Building Centre, 9, Conduit Street, W.1. The exhibition has been extended for a further fortnight. 10 a.m. to 6 p.m. (Sundays excepted.) Until DEC. 14

Your New Home. House Building Industries' Exhibition. At the Housing Centre, 13, Suffolk Street, Haymarket, S.W.1. (Sponsor, HC.) DEC. 17-JAN. 12

MANCHESTER. *Annual Dinner, Institution of Heating and Ventilating Engineers.* Manchester and District Branch. At the Grand Hotel, Aytoun Street. DEC. 13

Americana V Exhibition. At 19, York Street, Manchester, 2. Weekdays, 10 a.m. to 5 p.m. Sundays, 10 a.m. to 12 noon. (Sponsor, Colour, Design and Style Centre of the Cotton Board.) Until DEC. 21

PARIS. *British Architecture 1939-1946.* Exhibition arranged by the RIBA in collaboration with the British Council in connection with the First General Conference of UNESCO. The exhibition consists of eleven wall panels, carrying photographs, architects' drawings and text in French and English. The panels were executed by the Design Research Unit in conjunction with Peter Ray. Until DEC. 10

NEWS

THURSDAY,
No. 2706

December 5, 1946
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 features marked with more than two stars is very big building news indeed.

★
Students of British nationality are offered maintenance SCHOLARSHIPS in Architecture by the Architects' Registration Council of the United Kingdom.

The Architects' Registration Council of the United Kingdom offers for award in June, 1947, certain Maintenance Scholarships in Architecture. The scholarships will consist of a grant for the payment, in whole or in part, of the school fees and necessary subscriptions, instruments, books, etc., and, when necessary, a maintenance allowance not to exceed as a rule £100 a year. The scholarships will be renewable from year to year until the student has finished his or her school training. They will be available for students of British nationality who could not otherwise afford such training to enable them to attend architectural schools approved by the council. The scholarships will be available both for students who have already begun their training and for students wishing to begin their training. Scholarships will not be granted to students who will be less than 17 years of age on October 1 of the year in which the examination is taken. Particulars and forms of application may be obtained from The Secretary to the Board of Architectural Education, Architects' Registration Council of the United Kingdom, 68, Portland Place, London, W.1. Copies of previous years' examination papers may be obtained on payment of 6d. The closing date for the receipt of applications, duly completed, is February 1, 1947.

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From AN ARCHITECT'S Commonplace Book

LUXURY LINER. [From *Brideshead Revisited*, by Evelyn Waugh (Chapman and Hall).] I turned into some of the halls of the ship, which were huge without any splendour, as though they had been designed for a railway coach and preposterously magnified. I passed through vast bronze gates on which paper-thin Assyrian animals cavorted; I trod carpets the colour of blotting paper; the painted panels of the walls were like blotting paper, too—kindergarten work in flat, drab colours—and between the walls were yards and yards of biscuit coloured wood which no carpenter's tool had ever touched, wood that had been bent round corners, invisibly joined strip to strip, steamed and squeezed and polished: all over the blotting paper carpet were strewn tables designed perhaps by a sanitary engineer, square blocks of stuffing, with square holes for sitting in, and upholstered, it seemed, in blotting paper also; the light of the hall was suffused from scores of hollows, giving an even glow, casting no shadows... the whole place hummed from its hundred ventilators and vibrated with the turn of the great engines below.

Arrangements are being made for the building of a £600,000 ELECTRIC CABLE FACTORY AT LIVERPOOL.

Plans for a large new factory costing about £600,000 for further extending the manufacture of electric cables and other electrical equipment are announced by Sir Alexander Roger, Chairman of British Insulated Callender's Cables, Ltd. Arrangements are proceeding for the purchase of a 23-acre site on the Kirby Trading Estate of the Liverpool Corporation. The new factory will have a floor area initially of approximately 250,000 square feet and will provide considerable employment in the Liverpool area in addition to the 10,000 persons already employed in the B.I. Callender factories at Prescott and Helsby.

An Agreement has been signed providing for the AFFILIATION of the Joinery and Woodwork Employers Federation to the National Federation of Building Trades Employers. Under the agreement the Joinery Employers will be directly represented upon the Council and the appropriate committee of NFBTE.

operations or manufactures incidental to the carrying on or any of the services detailed in (a) and (b) above. The general effect of this is that all undertakings engaged wholly or mainly in the following and similar activities must be registered:—General buildings (including jobbing, maintenance and repair work); plumbing and glazing; painting, paper-hanging and decorating; joinery and carpentry, plastering, slating and tiling; installation of heating, ventilation and electrical equipment in building and civil engineering work; public works contracting; dredging; excavating; piling and foundation work; railway, highway and sewage civil engineering work; constructional engineering, asphaltting and tar-spraying; plant hire (where labour is supplied with plant); demolition work; scaffolding. This list is not comprehensive, and undertakings engaged on activities covered by the Regulation but not specifically mentioned here are not relieved from the obligation to register. Forms of application for registration (B.C.E.2G) may be obtained from the Registrar, Building and Civil Engineering Contractors, Ministry of Works, 271-277, High Holborn, London, W.C.1. Control of entry into the industry has been discontinued and certificates are granted to all applicants, unless a certificate previously granted has had to be revoked or the applicant has been convicted of illegal building.

Connected by a subway from the White City Stadium a new UNDERGROUND STATION OF CONCRETE BLOCKS is to be built at Wood Lane.

It is hoped to complete the station by next autumn. Concrete blocks will be largely used in the construction so as to avoid competing for materials required in the housing programme. The new station is situated on Wood Lane, slightly north of the existing station. Although the scheme involves new layout of tracks and work on and around the running lines, train services will not be interfered with. The present station has proved to be a stumbling block to London Transport's plan to run trains of eight cars instead of six on the Central Line. It has three platforms grouped in a triangle, and this layout means that the platform lengths cannot be extended to take eight-car trains and give Central Line travellers the benefit of the extra two cars per train which will in due course be run. The new station will be a focal point for the staff operating the 5½ miles of the Central Line, when the Eastern and Western extensions are completed. A new canteen and a staff institute are included in the design of the station block.

★
Anyone doing any building or civil engineering work in connection with the following or similar activities must have a certificate of REGISTRATION issued under Defence Regulation 56AB:—Ministry of Works.

This requirement applies to employers and persons carrying on business on their own account including one-man firms, but not to employees:—(a) the construction, alteration, repair, decoration or demolition of buildings, or the provision of water, light, heating, or other service for a building; (b) the construction, alteration, repair, or demolition of docks, harbours, bridges, roads, viaducts, aqueducts, canals, inland navigations, pipe-lines, plant foundations, cooling towers and ponds, cable trenches, cable ducts, railways, aerodromes, sea defences, river works, piers, quays, wharves, reservoirs, filter beds, sewage works, sewers, tunnels and gasholders, the erection of overhead line supports and any works of a similar nature, or the provision of water, light, heating or other services for any such works; (c) the carrying out of any processes,



One of the wall panels at the British Architecture Exhibition now being held in Paris in connection with the First General Conference of UNESCO. The exhibition, arranged by the RIBA in collaboration with the British Council and on behalf of the Ministry of Education, consists of eleven wall panels, carrying photographs, architects' drawings and text in French and English. The panels were executed by the Design Research Unit in conjunction with Peter Ray.



For Farm Workers

On November 26 the Joint Parliamentary Secretaries of the Ministry of Agriculture and Fisheries (the Earl of Huntingdon and Mr. P. H. Collick, M.P.) inspected the prototype of the Airey rural type houses erected at Cheshunt by the Ministry of Works Mobile Labour Force. The contract for the components of twenty thousand of

these houses has been placed by the Ministry of Works. It is hoped that as many as possible of the houses will be built by local authorities in various parts of the country before next year's harvest in order to attract labour to replace the German prisoners of war on the farms. The Airey house is of precast R.C. slabs and frame.

★★

The Report of the Advisory Committee for LONDON REGIONAL PLANNING to the Minister of Town and Country Planning, which includes the Report of the Technical Sub-Committee, has now been issued to all local authorities and is obtainable from H M Stationery Office, price 2s. 6d. Mr. Silkin, the Minister of Town and Country Planning, said of the report in the House of Commons, on November 19, that it "discloses general acceptance by all the planning authorities of the main outlines of the Abercrombie Plan. The Government are indebted to the committee and to the hon. and Learned Member for Montgomery (Mr. C. Davies) for producing an agreed report in so short a time. The Government welcomes the Report, but there are certain reservations which I must make. The report proposes the accommodation, within the green belt ring, of nearly 160,000 more people than suggested in the plan. The Government have already declared their determination to safeguard this ring in order

to stop the continued outward spread of London, and I shall be generally unable to accept these expansions. The road proposals in the report have been considered by my right hon. friend the Minister of Transport, in consultation with myself, and a plan will be issued in due course for the guidance of the Highway and Planning Authorities. A memorandum will shortly be sent to planning authorities setting out in more detail my views on the report and drawing attention to certain particular problems which are being further investigated by my officers. Modifications to the report may prove necessary from time to time as detailed surveys are carried out. Subject to these reservations, the Abercrombie Plan can now be taken as the general framework for planning in the Greater London area."

Letters have been received by the RIBA from students desiring part-time or evening TRAINING IN ARCHITECTURE to the effect that they have been unable to secure

admission to a suitable Technical College or Art School. This matter is receiving the attention of the RIBA who would be glad to hear of any students who experience the difficulty referred to above. Letters should be addressed to the Secretary RIBA.

The North of Scotland Hydro-Electric Board has placed contracts valued at nearly £3,000,000 for work in connection with THE LOCH SLOY PROJECT.

This project, which will provide direct employment for over 2,500 men, at its peak involves the construction of a dam at Loch Sloy, the driving of a tunnel through Ben Vorlich, and the erection of a power station with an authorised installed capacity of 130,000 kilowatts on the shores of Loch Lomond. Contracts placed to date have been spread over 50 firms.

The Ministry of Works has issued a statement on PRICE CONTROL of Building Materials and Components.

The statement (HM Stationery Office, price 1d. net) deals only with the overall control of prices of building materials and components for the general market, in cases in which some further measure of control is necessary beyond that provided under the Prices of Goods Act. It does not deal with points of control procedure which arise in negotiation of purchases on direct and indirect Government account or in the negotiation of Production Agreements.

Is the Prime Minister aware of the disappointment caused by the academic character of the designs for the ROOSEVELT MEMORIAL STATUE and the emblematic sculptures for Waterloo Bridge?—Thomas Driberg, M.P.

This was asked in question time last week in the Commons. Mr. Driberg also asked: By whom and on whose advice were these designs approved; and, for future similar cases, will the Prime Minister establish the principle of open competition, so that younger and more experimental artists may have the chance of contributing to the adornment of our cities? Has the Prime Minister noted the very considerable volume of opinion that this Roosevelt statue will be quite unworthy of a very great man and of this great city, and can he say whether it is not even now possible to reconsider the matter? The Prime Minister replied: The Roosevelt memorial statue and the sculptures of Waterloo Bridge were commissioned by the Pilgrim Society and the LCC respectively; in the former case the design has received the general approval of the Royal Fine Art Commission. When statues are erected at the Government's expense it is the practice of the Minister of Works to consult the Royal Society of British Sculptors and other relevant professional bodies with regard to the choice of artists, and competition as a means of selection is not excluded.



In reconstructing the war-damaged houses of Greece, the Government is preserving the local architectural styles of the seventeenth and eighteenth centuries, which are adapted to the special agricultural needs of the country. The verandahs are used for drying tobacco and paprika. During the war and enemy occupation, 118,000 rural houses and 75,000 urban houses were destroyed and 8,000 rural houses and 25,500 urban houses were partially destroyed.

THE SCHOOLS REPORT

TO carry out the work necessary to raise the school leaving age and fulfil the obligations of the Education Act of 1944 it is estimated that £1,000 million will have to be spent, and the Sites and Buildings Committee appointed by the Minister of Education consider that it would not be unreasonable to fix a maximum of 15 years for the completion of the programme. The report of the Committee* reveals an extraordinary picture of administrative delay. The minimum time that will elapse under the present arrangements between the initial decision to build a school and its completion ready for occupation is three and a quarter years. And this for a school that takes no more than ten months to build. The Committee was concerned to cut through this tangle. To overcome some of the difficulties caused by the necessity of submission of proposals at innumerable stages and to innumerable authorities it is suggested that the Regional Planning Officer can help to "clear" sites through his contacts with the many other planning authorities. Local Education Authorities are advised to review their procedure, and to co-ordinate their committees and sub-committees so that there is the minimum delay in the successive stages. It would be a salutary experience for all local authorities to examine their procedure and discover how unnecessary most of the long-winded progress through sub-committees to committees to the Council is, and how readily it can be eliminated by interlocking the activities of the various committees.

To-day to select and acquire a site takes at least twelve months, the greater part of this time being taken up by negotiating for the purchase of the land. If compulsory purchase has to be resorted to, the delay may be even greater. The Report under consideration suggests that a time limit of three months be put on direct negotiations to purchase, after which compulsory powers should be invoked automatically, the necessary steps having been prepared beforehand.

The recommendations of the Committee may be divided into three main groups, first, the increase of the technical staffs of local authorities and the Ministry and the improvement of their technical qualifications; second, the simplifying and speeding up of administrative procedure, and, third, the development of new types of structural elements and their mass production and the continuation of the work of the Committee on Standard Construction for Schools which reported in 1943. There is an all over shortage of technicians at the present time, though many private architects are finding it difficult to make ends meet with the current building restrictions. Certainly in a sellers' market the local authorities will find it difficult to recruit staff unless they are prepared to increase the salaries offered and give more opportunities for independent and original design. The Committee has also recommended that more work be given to private architects and it is hoped that this suggestion will be followed. With

* Report of the Committee on School Sites and Buildings. Issued by the Ministry of Education (HMSO 4d.)

the present urgent need there will be a tendency for the Architects to Education Authorities to look to standardised solutions to get them out of their difficulties. The employment of private architects should help to mitigate this danger. The Committee suggests that the RIBA should be invited to see if it is possible to arrange courses for architects concerned with schools and their lay-out. We support this suggestion and urge that attendance at such courses should not be limited to the employees of local authorities, but made available to all architects concerned with school design.

The Report is an admirable document, being simply written and easily followed; we hope that it will be adopted by the Minister of Education and the suggestions acted upon as soon as possible. Otherwise the task put before Education Authorities will be hardly begun when it should be finished.



The Architects' Journal

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N O T E S & T O P I C S

REID DICK, LEARN AND INWARDLY
DIGEST

The second vote in the House of Commons within a fortnight, has taken place over the Roosevelt Statue. Led by Mr. Driberg, a hundred and three members of all parties have joined in tabling a motion asking for second thoughts on the design of this memorial on the grounds that it is "unworthy" and "inadequate." These adjectives are mild compared with some of the comments that have been made in the last few days, but the sculptor, Sir William Reid Dick is unperturbed. "I think," he said to an interviewer, "it is a really fine statue." Doubtless, like all sculptors he is used to public controversy, for next to the early cuckoo, there is nothing dearer to the nation's heart as a subject for a good argument, than Statuary [and it is nicest of all if a horse is somewhere involved].

The encouraging feature about this latest set-to, however, is that it is not, like it was with Haig, concerned with details such as the cut of a tunic, or the set of a neck-tie, but—the fatuous sitting *versus* standing controversy apart—with the fundamentals of memorial design. No, in the opinion of many people this statue and also the garden planned around it, does not inspire the mind, nor refresh the eye, and for these reasons, they say, it is not wanted.

THE NEW TOWNS

The Town Planning boys, so my spies tell me, are quietly confident. The tycoons may huff and may puff, and the farmers may bellow; nevertheless, the good ship Stevenage Magna is standing out well from the coast, and as for Crawley and Three Bridges—well, you can make your own puns about them.

First, the Ministry itself. The Minister has now made his Order designating Stevenage as a New Town, and has issued an explanatory letter in which he comments on the various objections made at the Public Inquiry last October. It is a smooth, powerful piece, and he—or, rather, Mr. Beaufoy, his Assistant Secretary, who signs it—is to be congratulated on a document which conforms to the highest standards of official correspondence. Should the new town have been sited on virgin ground? The Minister is "satisfied that no equally suitable alternative sites are available for early large-scale development." [So, if your pet alternative is available, it probably isn't suitable and, as a second

line of defence, it may not be available for large-scale development—I mean, *early* large-scale development.]

Did you suggest that other existing towns could be expanded to meet the demand? There is no complete solution in that, my dear sir. Did you fear that Welwyn, Hitchin and Letchworth would be absorbed into the Stevenage agglomeration? The Minister is satisfied that existing planning powers will prevent such a coalescence. And have you still a lurking suspicion that the North Wind will render parts of the new Stevenage uninhabitable? The Minister can deal with the North Wind. Everything is all fixed and away we go, with even the Stevenage Urban District Council now on our side, thanks to a casting vote by its chairman.

In addition, Mr. F. J. Osborn (whom God preserve, of Welwyn) has been reasoning with the Business and Professional Women of Letchworth on the same topic. Mr. Osborn is Chairman of the Executive Committee of the Town and Country Planning Association, and no doubts assail his mind. Time may march on (Letchworth was founded forty-two years ago), but only to prove how right Sir Ebenezer Howard was. Are we a decadent country? No. Do we lead the world in town and country planning? We do. Do we shrink from a sight of the Stevenage Plan? How can we draw back from something which, in Mr. Osborn's own words, "shows what a lovely place the new town can be . . . and, above all, in what charming surroundings the residential districts will be." And, for those who doubt, let them think what the speculative builder might have done had he got in first.

Whether you do or do not like Synthetic Cities, as one daily has called them, you must agree with Mr. Osborn's concluding remarks to the B. and P. Women of Letchworth, in a section addressed to the present inhabitants of Stevenage: "If you don't like any detail of the plan, try to get it changed; your opinions as local residents cannot be ignored, and probably it will be received with thankfulness." If the managements of the new town corporations go into action with that

advice written in their hearts, then even the minds of the most timid should be reassured.

UN HQ

"Academism or Life? Here lies the fate of the United Nations, and, consequently, the fate of the world: academism or life?" Yes, it is le Corbusier. These words appear in his minority report attached as an Annex to the Report of the United Nations Headquarters Commission, on which he was the French delegate.

The function of the Commission was to report on suitable sites varying in area from 2 sq. miles to 40 sq. miles. Five sites of different areas were to be chosen and particulars submitted of the probable cost of acquisition. The Commission was also asked to suggest what measures the appropriate authorities were prepared to take to control land adjoining the zones. The General Assembly had already decided on the Westchester/Fairfield area just outside New York.

The Report except for the contribution of le C. is a fairly complete answer to the questions posed, though the Soviet representative had some criticisms to make of one of the sites. To the general reader it will be of little interest. Le Corbusier fore-armed by the experience of Geneva and determined to get his blow in early, went into retreat in France half-way through the proceedings and returned with his contribution written up in French and English. All the projects of the late 'twenties and the early 'thirties appear in his scheme—the vertical garden city, the Cartesian office block, the suspended acoustic shells to the Assembly Halls, the World Library, and the World Museum (the Mundaneum and shades of Paul Otlet) and the inevitable wiry sketches of "*les 24 heures solaires*." None the less his work is always worth reading.

Those who care to gamble on an international competition being held for the United Nations Headquarters will find enough Dope in this Report as a whole for them to prepare their *partis*. The Report is being sold in this country by the Stationery Office at ten shillings.

DEMOGRAPHY

Britain has often been beholden to enthusiasts who have rubbed our noses into vital questions we have forgotten, neglected or refused to acknowledge. Mr. Alexander Block is such an enthusiast, and his book *Estimating Housing Needs* (Architectural Press, 10s. 6d.) is of cardinal importance.

It was recognised before the war that the statutory town planning schemes resulted in an allocation of housing space variously estimated to accommodate up to 10 times our present population; and this with a declining population just round the corner. Mr. Block appeals for a little more common sense and a great deal more knowledge. He has planned a series of volumes, of which this is the first to put Demography on the town planning and housing map.

Our contributor Ian Bowen queried in a letter to *The Times* the universal concentration on building three-bedroom houses and raised doubts on the wisdom of such a policy when there is an even greater deficiency in smaller houses. Mr. Block puts the problem in a nutshell, "To estimate the housing needs of any population means to find out: (a) the number; and (b) the types of dwellings required." His book suggests how this can be tackled. We shall, I predict, be hearing more about that word Demography and we hope the subject may even be considered by our planners.

ANOTHER TIMBER CUT

The Minister of Health has apparently made up his mind that timber has become the limiting factor in house production, and has accordingly cut the allocation to 1.6 standards per thousand square feet of floor area, leaving the hardwood and plywood allowances as before. The few of us who have individual houses on our drawing boards can, without much difficulty, support this cut, though it will almost certainly mean detailing that timber first floor again and having some second thoughts about the roof. It looks, however, as though the timber scarcity will continue for six months or more, although, of course, "every effort is being made."

ASTRAGAL



LETTERS

P. J. Marshall

James Walker,

President, Master Carvers' Association

H. Farquharson, F.R.I.B.A.

D. H. McMorran, F.R.I.B.A.

L. H. Keay,

President, Architects' Benevolent Society

SATO and a Burma Plan

SIR.—Although you performed a valuable service for SATO members and others in publishing a précis of my report on the work of the organization in your issue for November 7, there are two criticisms which, as general secretary, it is my duty to make. They are as follows:—

1. You omitted to mention the most important activity of the Calcutta Group, *i.e.*, the preparation of a detailed syllabus for an Indian School of Architecture and Department of Regional Planning in collaboration with Indian experts, and the fact that this syllabus was presented to Calcutta University by HE the Governor of Bengal, for their consideration. All SATO members will be extremely interested to hear that the syllabus has now been officially accepted by Calcutta University.

2. It is regretted that the précis was headed with the name of the general secretary, instead of the title of the lecture. The success of SATO lay in the voluntary collective work of many people rather than on the efforts of one or two personalities.

London

P. J. MARSHALL

The City Churches

SIR.—It is surprising that your leader writer makes the same mistake about Grinling Gibbons and the City Churches as so many thousands of others, including experts on City architecture. Gibbons, of course, with the exception of the choir stalls in St. Paul's Cathedral, and the bust of Archbishop Tillotson in St. Lawrence Jewry, executed no carving whatsoever either in wood or stone, in any of the City Churches. The men responsible for, and credited with this work, are Richard

L.A.s. VISIT NEW PREFABS.



Last week a number of local authority representatives, together with fifty members of the British Cast Concrete Federation, visited the New Haw Estate at Chertsey where 40 semi-detached and 10 Duplex houses built on the Stent Precast Concrete system have been erected by the Ministry of Works as one of a number of experimental groups. The Stent House has been recommended for development by the Burt Committee but has not yet been approved by the Ministry of Health for erection by local authorities for general housing development. The system consists of vertical precast T section wall units having wall faces 12 in. wide. The weight of these units varies between $\frac{1}{4}$ and $\frac{1}{2}$ ton each. First floors are either of timber or precast concrete, and ground floors are of solid concrete with a bitumastic finish. The roofs are of steel trusses with precision mesh grills to take concrete tiles. Eaves soffits are of precast concrete units, as are also the window frames and mullions. Internal wall linings are of $1\frac{1}{2}$ in. woodwool slabs and ceiling coverings are of plasterboard, all internal surfaces being finished with a skim coat of plaster. External rendering is of Snowcem or Tyrolean finish. The plinth courses are of precast concrete units which form a setting out base. The houses are based on the MOW standard plans. MOW collaborated with the manufacturers on the design and lay-out. Top, a pair of the finished houses. Below, the houses under construction.

Cleere, William Emmett, Jonathan Maine, William Newman, and Edward Pearce.

During the period when Wren was engaged on the City Churches, Gibbons was employed on work for the Court, on several country houses and the reredos at St. James' Church, Piccadilly. Therefore, as there was but one City association of Wren with Gibbons, the point made by you, that no attempt should be made to rebuild any of the City Churches, is without weight or significance.

Although the ranks of Craftsmen Carvers are certainly depleted today, there are worthy successors of the original Cleere, Emmett, Maine, Newman and Pearce, capable of restoring the buildings and their original beauty. As proof, I would recommend ASTRAGAL to visit the Chapel of St. Michael and St. George in St. Paul's Cathedral, where he will see carving carried out by London craftsmen between two wars which, it is said, is equal to any of the work of Gibbons, and after all, Gibbons was a Master Carver, and most of the work credited to him personally was executed by one or other of his many craftsmen.

JAMES WALKER, President,
Master Carvers' Association.
London

Two More Architects' Experiences

SIR.—We should like to support the letter from Two Architects, by describing a recent experience. A client of ours, having submitted to an urban district council plans for a modest and strictly traditional cottage on a developing estate, we were astonished to hear from the Engineer and Surveyor that a Committee had rejected the design on the ground that the "building would disfigure the locality by reason of its external appearance." We found that, under the Council's 1939 Town Planning Scheme there is a right of appeal to an independent Tribunal, composed of a J.P., a surveyor, and an architect (although no such Tribunal had, in fact, been appointed). We therefore advised our client to appeal, and notified the Council accordingly, only to find that the plans were then reconsidered and passed without further objection.

This shows the degree of uncertainty attached to committee procedure, even where, as in this case, the council and its technical officers are responsible for all local architectural matters. There may even be cases, as Two Architects suggest, of actual inability to read plans. We urge your correspondents, in such circumstances, to use the powers of appeal wisely provided by Parliament, before they commit themselves or their clients to the trouble and expense of making special drawings.

H. FARQUHARSON,
D. H. MCMORRAN,
London

ABS Christmas Appeal

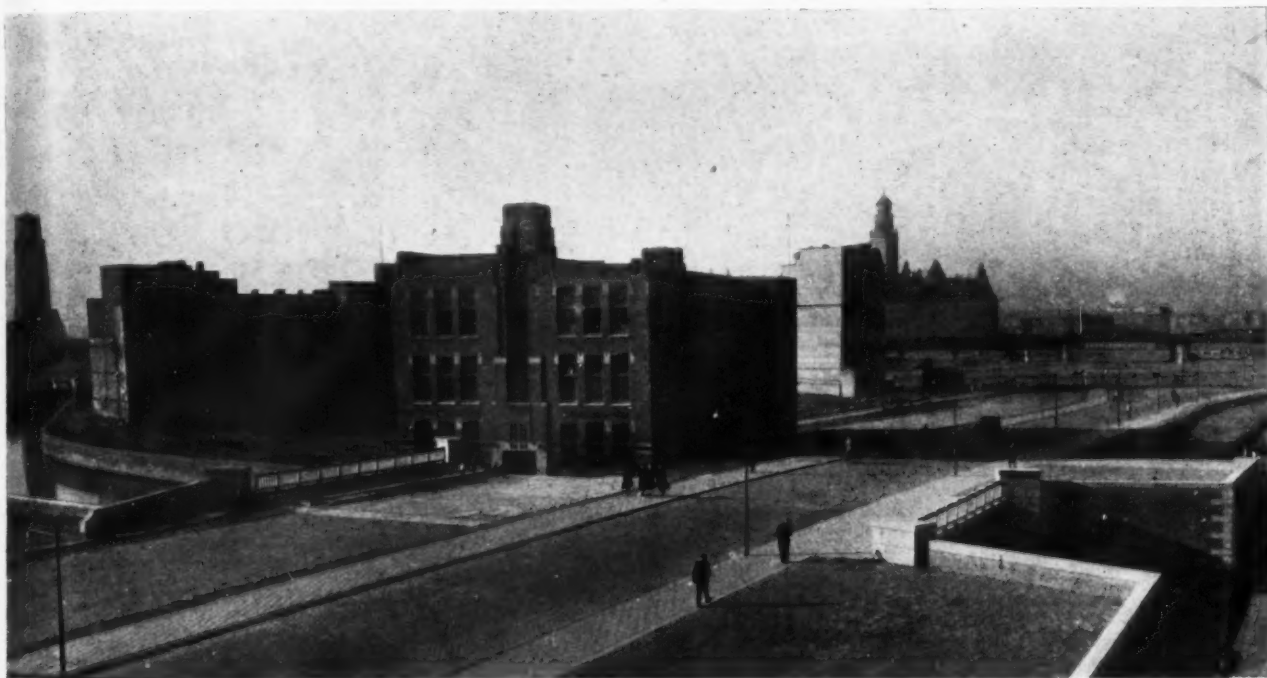
SIR.—May I make a very special appeal this Christmas on behalf of Architects, Architects' Assistants, their widows and orphans on whom misfortune has fallen and who look to the Architects' Benevolent Society to help them in their distress?

We often grumble at the high cost of living, but I doubt whether we realise what this means to all those for whom the bare necessities are almost luxuries.

I know how many calls are made at this time of the year, but I make a personal appeal to every member of the profession to send me at least one half-crown and as much more as can be spared. We never miss the help we give to others, and we have a special obligation to relieve the distress of those in whose name I ask for a generous contribution to the funds of the Society.

L. H. KEAY,
President,
Architects' Benevolent Society.
London

PHYSICAL PLANNING SUPPLEMENT



ROTTERDAM

REPLANNING OF THE CITY

The publication of the new Plan for Rotterdam recalls the early days of the War, and the resistance of the Dutch. In introducing the Plan, the Burgomaster stated that the opportunity was now present for building a new centre in accordance with modern planning technique. Above, a view of the junction between two new roads in the centre of the city—An example of the realisation of the Plan.

Until 1940 Rotterdam was a thriving harbour-town of about 600,000 inhabitants, handling 40-45,000,000 tons a year, approximately the same number as the London harbour. The town had grown at a very quick rate after 1870 when there were only 116,000 inhabitants. Thus in 70 years the population had acquired about six times its original number of persons and the harbours and the industrial areas had been extended proportionately. As a result the centre of the town showed many deficiencies. Dwellings, workshops, factories and warehouses were mixed up without any order; the greater part of the dwellings in the inner town were of a very bad quality. The traffic caused many insoluble problems. A part of the inner town was flooded several times every year at very high tides, and the railway system was unsatisfactory, as there were different stations spread all over the town, rather poorly linked together.

The air raid on May 15, 1940, and the big fire that was the result, completely erased the whole centre of the town, destroying 11,000 buildings. The damage affected an area of 645 acres. The town was not only deprived of its historical centre, but the urban organism had lost its very heart and brains, as the whole shopping and business district was annihilated.

first plan

Immediately after the fire a plan was prepared for reconstruction, which was finished on June 8, only three weeks after the disaster. This first plan was based on the restora-

tion of the old system of the urban structure, using of course the opportunity of introducing many more or less local corrections.

second plan

The idea of a complete replanning on modern lines and meeting modern needs came up only later on during the Occupation. To prepare such a new plan there was established a close but unofficial contact between the Townplanning Department under the direction of Mr. van Traa and representatives of the population. All the preparations had to be made in secret and specially during the last hunger-winter the work grew particularly difficult to carry on. Immediately after the Liberation, however, the new plan was drawn, taking into consideration as much as possible the works already completed since 1940. This plan was approved by the authorities only one year later, in May, 1946.

first measures

In the meantime many works had been accomplished already: the whole devastated area had been taken over, the foundations were excavated and the piles underneath were extracted. New roads had been laid out and new canals and bridges constructed all according to the first plan. Also about 525 dwellings had been erected in the burned-down area and about 3,850 dwellings in the suburbs. All these works had been carried out as quickly as possible to prevent the Germans from interfering and to keep as many labourers at work as possible; otherwise they would have been deported to Germany and forced to work there in war-production. It is of some importance to mention here that from the very beginning the principle has been laid down that the displaced persons would get back a new plot in full and that the indemnity they received should be used exclusively for the financing of a new building.

background

The reconstruction-plan is based on certain ideas about the growth of the whole town. This growth will depend in the very first place on the future economical development, which is not under local control, as it depends for the greater part



DESTRUCTION

Above left, the centre of Rotterdam before May, 1940, and right the square mile of destruction. Below, the work of the Port proceeds in spite of the damage.



on the future of the hinterland, the western part of Germany. As this hinterland has nowadays gone to pieces, the future for Rotterdam looks rather cloudy and for this reason it was decided to develop the body of the town in a way which would make it possible to stop the growth at any moment. This has been done by planning a series of complete units of 10-20,000 inhabitants in a large green belt all around the existing town, to be developed as required. At the same time an effort is made to give Rotterdam a new and larger economic basis. Until now, the town was wholly dependent on its harbour, which was typically a transit harbour, handling goods coming in from overseas and going inland along the Rhine, or coming out of central Europe and going out all over the world. The town had comparatively little commerce and industry of its own. Now it is trying to change this rather unsatisfactory situation by creating large and very attractive facilities for the settling of new industries of every type.

general outline

After the fire it was decided at once that certain unpleasant features of the old inner town were not to be repeated in the new plan. In the first place the mixing up of all kinds of buildings and activities should be abolished by careful zoning. A new industrial area was laid out at the border of the town for the industries which had their premises

in the old city. The land was specially set aside for this purpose and it will be accessible by railway, road and waterway. Only a small part of the original number of dwellings will come back in the inner city. Special measures will be taken to avoid the difficulties resulting in general from the presence of dwellings in the crowded centre of a modern town. The traffic system has influenced the design of the new plan to a very large extent.

technical provisions

A new, large and high river dyke will be constructed all along the Meuse preventing the inner town from flooding. This huge dyke will be shaped as a broad riverside-drive planted with trees and giving a view over the beautiful bend of the river. The construction of this dyke will make the clearing away of rather extensive railway yards necessary in the eastern part of the city. Railway traffic will be centralized in one central station, situated at one of the corners of the inner city. The railway tracks cannot be put underground, and it will be necessary for technical reasons to maintain in Rotterdam the system of elevated railway viaducts. This system, however, will lose many of its unpleasant features when the whole railway traction is electrified in a few years' time.

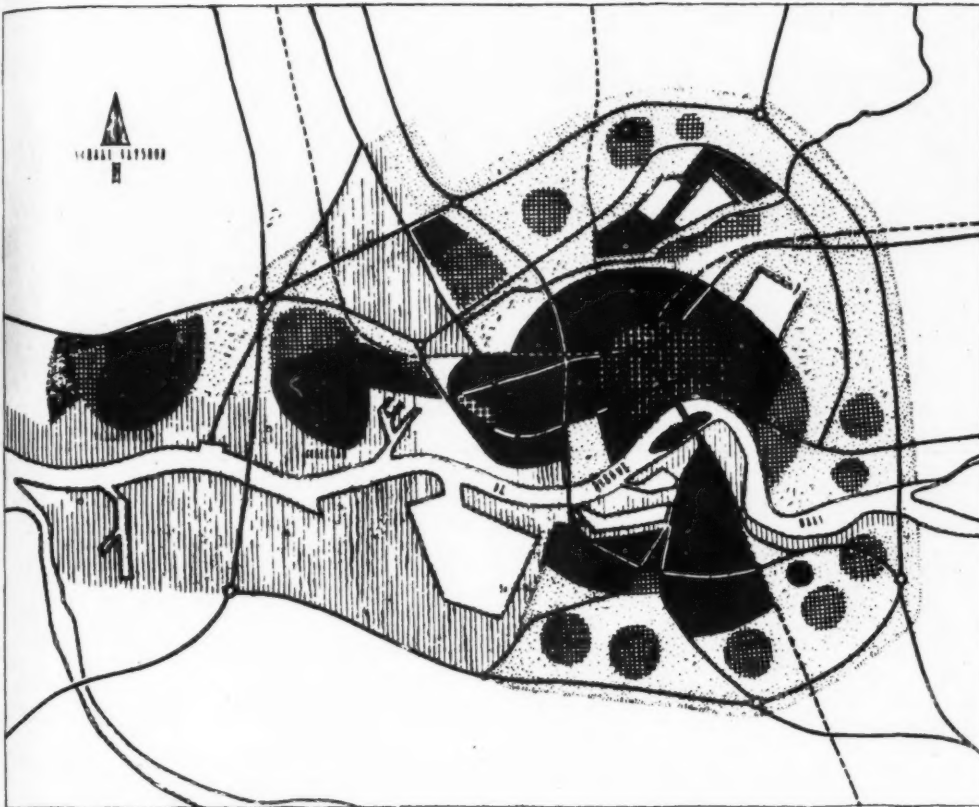
A feature of the plan is the siting of the new bridge over the Meuse. The traffic on the river makes it impossible to have many bridges and so the connection between the two parts of the town is maintained only by one bridge and one tunnel. The bridge will be at the east side and the tunnel at the west side of the southern part of the town. The existing bridge is too low for the barges on the river and too narrow for the traffic on the road. The place where this bridge comes into connection with the road system of the inner town is of extreme importance for the whole traffic system in the plan.

zoning

In the centre of Rotterdam a new inner city is planned in the shape of 2 squares which will serve the business life. Here will be erected the official buildings (the Town Hall, the Post Office and the Exchange were left unharmed by the fire), the buildings for the cultural life, the shops, the offices and banks and the buildings for pleasure, entertainment and recreation.

A system of shopping-streets of the *rue corridor* type has been adopted, as this type of street furnishes the best psychological atmosphere for shops. A new feature in the plan has been achieved by designing public courts, squares and roads in the interior of the building blocks.

OUTLINE PLAN



Left, the Outline Plan for Rotterdam showing the proposed flexible residential unit pattern in the green-belt around the city. These units will be built as the need arises for expansion and redevelopment. Below, a perspective showing the proposed bridges over the river.



Some of these squares are large and are intended for the recreation of the workers and inhabitants of the city. Others are smaller and will give opportunity for cars and trucks to reach the back of the shops, freeing in this way the streets from vehicular traffic.

The banks are grouped at the southern side of the city, near the Exchange. For the cafés, hotels, bars and cinemas, a very broad shaded avenue is planned near the central railway station. A special centre has been provided for a theatre and a music-congress hall in the north-west of the city near the central railway station. The number of dwellings in the inner city will be severely reduced, from 25,000 dwellings existing there before the fire, to only 4,500.

South of this central area there is planned a new system of inner harbours for the river barges. In this quarter will be built warehouses, offices and workshops, adjoining this harbour and working district is a quarter specially designed for the sailors, with a central Sailor's Home. East of the inner city is a small triangular working quarter for workshops and small industries. The whole central system, just described, will be surrounded by dwelling quarters. At the northern and eastern sides there is already some new development which gives an idea of the way in which the whole of the dwelling areas will gradually be re-planned. At the west and the north are existing slums which will be modernised in the course of

time. At the south-west of the city is an open space where buildings with a cultural purpose will find their place.

traffic

The planners have done their best to create a simple and clear system of thoroughfares encircling the central area. This central area is divided in two equal parts by the old main street of the town, the *Coolsingel*. This system will be linked by other avenues to the riverside, as one of the main purposes of the new plan is to bring the core of the town in close contact with the river. All these avenues will have at least two tracks for the tramway, separated from the other traffic; three tracks up and down for cars and other vehicular traffic; special tracks for the cyclists; provision for the parking of cars, and pavements for pedestrians. The roundabout at the south-east corner of the inner city which gives access to the newly planned bridge will carry very heavy traffic and for that reason it is designed on several levels. The whole road-system aims at preventing the heavy vehicular traffic from penetrating into the precincts of the central area.

general appearance

Special measures will further the architectural unity of the new town leaving at the same time room for some diversity



Above, the proposed layout for the rebuilding of the centre of Rotterdam. This can be compared with the existing layout illustrated on page 412. Left, a view of a proposed traffic junction in the centre—figure 7 on the plan. Below, the new Station Square with hotels and an art centre, looking north from figure 2 on the plan.

CITY CENTRE

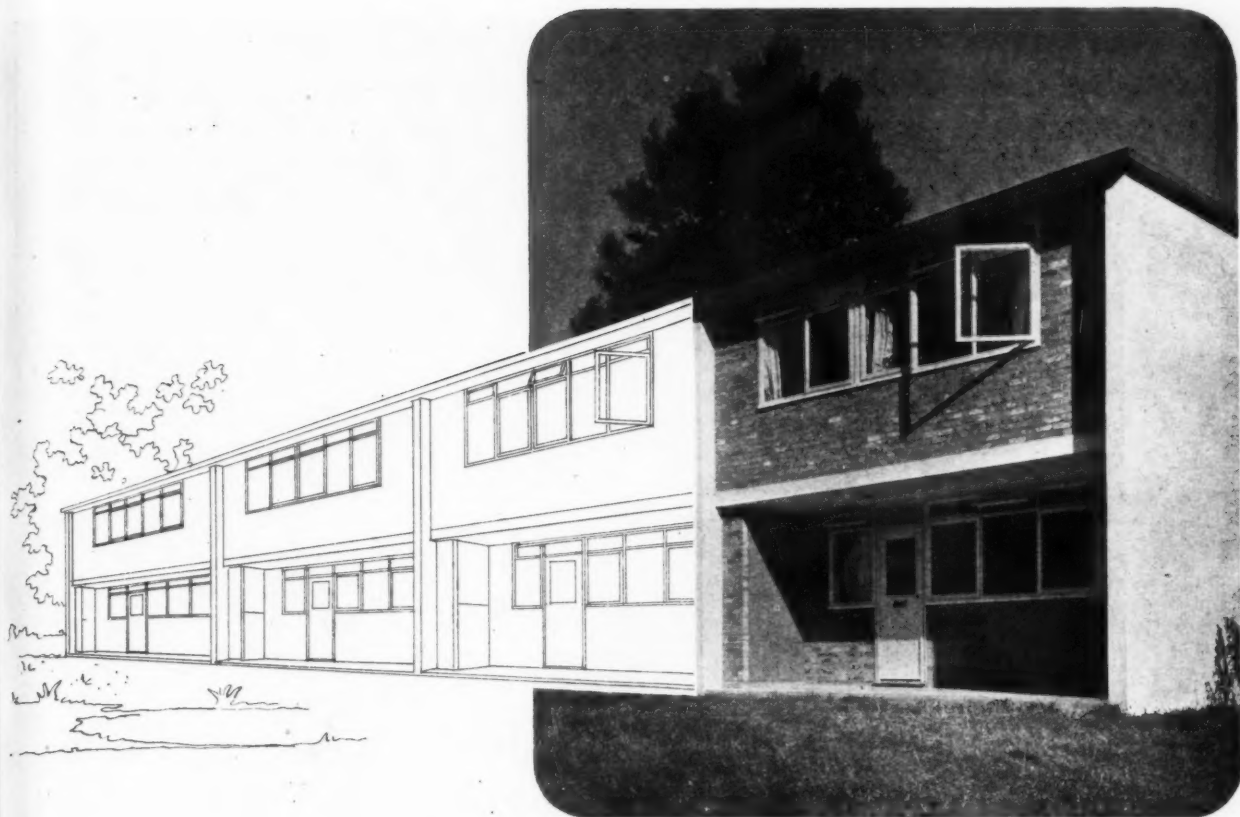


in accordance with modern architectural development in the Netherlands. The choice of an architect will need the approval of a special committee and the plans drawn by these architects for the different buildings have to be approved by a board of architects.

realization

The possibility of the victims rebuilding their properties is

hampered by the increase of building-costs, and the fact that the indemnities are valued only on the level of May, 1940: thus the Government will have to render financial assistance in a rather extensive way. Even then the possibilities of rebuilding are rather restricted. This has in many cases given rise to co-operation by a number of owners forming together one company, which will build one common building—for instance, for flatted industries or for the wholesale trade. Apart from this the Government furthers the erection of complete blocks at a time. This has many advantages from both technical and organizational points of view.



EXPERIMENTAL BOX-FRAME HOUSE AT CODICOTE, HERTS. DESIGNED BY F. R. S. YORKE, E. ROSENBERG AND C. S. MARDALL CONSULTING ENGINEER: OVE ARUP

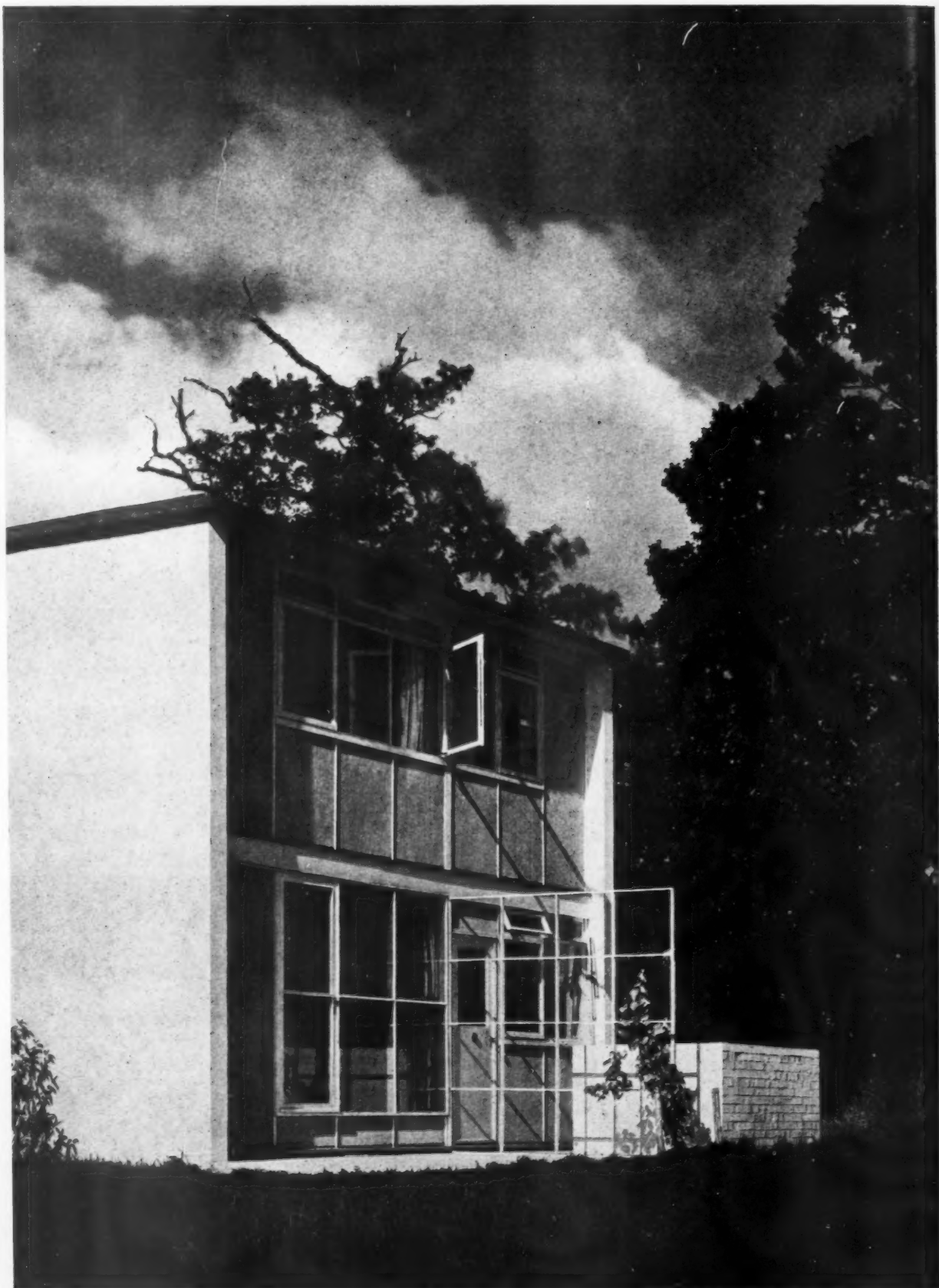
CONSTRUCTION.—The house is built with the box-frame system of construction which has been developed for terrace houses, flats and similar multi-cell buildings. The system is not suitable for single houses and is used in this case experimentally. Flank walls and ground and first floors and roof are of reinforced concrete. Front and back walls and parti-

tions are non-load bearing, with the exception of the wall between the living room and hall, which is necessary for trimming round the staircase opening. The front wall is built with $4\frac{1}{2}$ in. brickwork externally, 2 in. cavity and 2 in. hollow clay blocks plastered inside. The rear wall is composed of prefabricated units with compressed sawdust paper pulp sandwiched

between reeded asbestos cement and $\frac{1}{2}$ -in. plaster-board. (See diagram on page 418.)

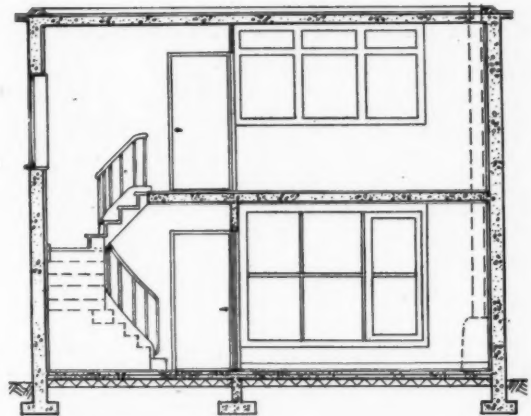
FLOORS.—The concrete is screeded to give a level finish, for 4 in. Semtex rubber latex cement flooring.

ROOF.—The 6-in. concrete slab is cast over $\frac{1}{2}$ in. tentest insulating

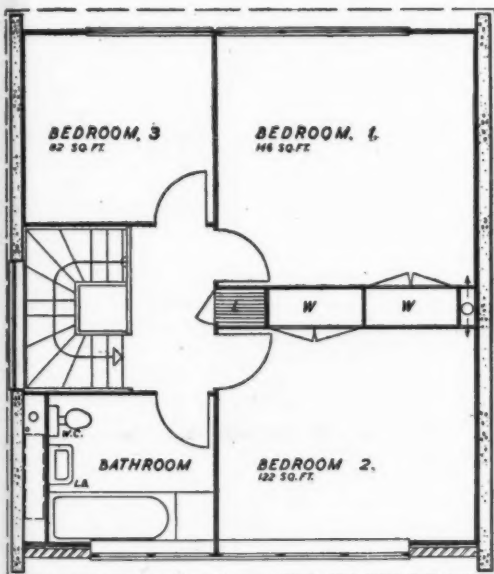


Above, the garden elevation of the experimental house at Codicote, designed as a unit for a terrace. On facing page, the front elevation with drawing showing terrace effect.

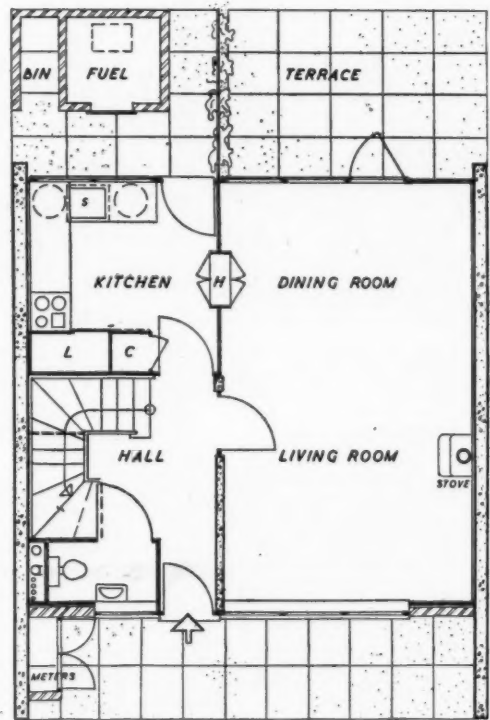
EXPERIMENTAL BOX-FRAME HOUSE DESIGNED BY F. R. S. YORKE, E. ROSENBERG & C. S. MARDALL



CROSS SECTION



FIRST FLOOR PLAN

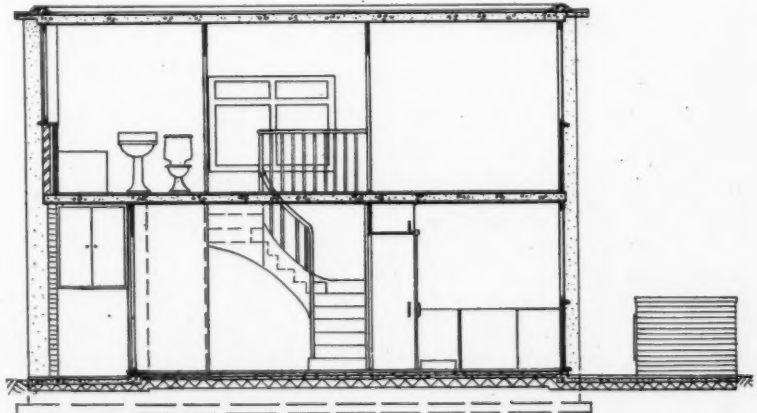


GROUND FLOOR PLAN

board and is finished with Brigg's two-layer bituminous felt roofing, covered with white spar chip-pings.

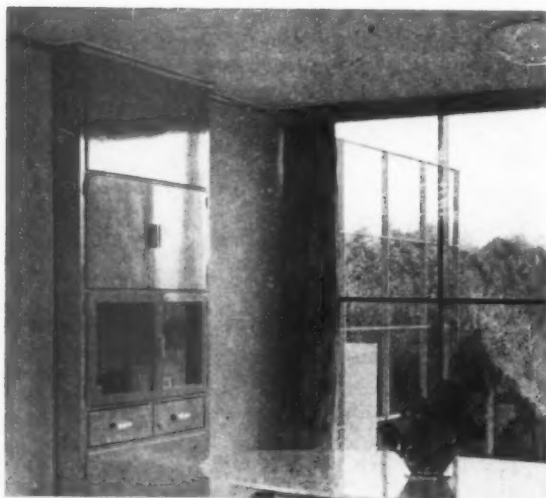
WINDOWS. — British standard section wood windows in non-standard widths to suit sizes of pre-fabricated panels.

INTERIOR FINISHES. — The flank walls are battened and faced internally with $\frac{1}{2}$ -in. insulating board. Prefabricated units forming internal partitions have a compressed paper pulp core sandwiched between two layers of plaster-board. Joints between the boards are covered with scrim and the internal wall surfaces are papered.

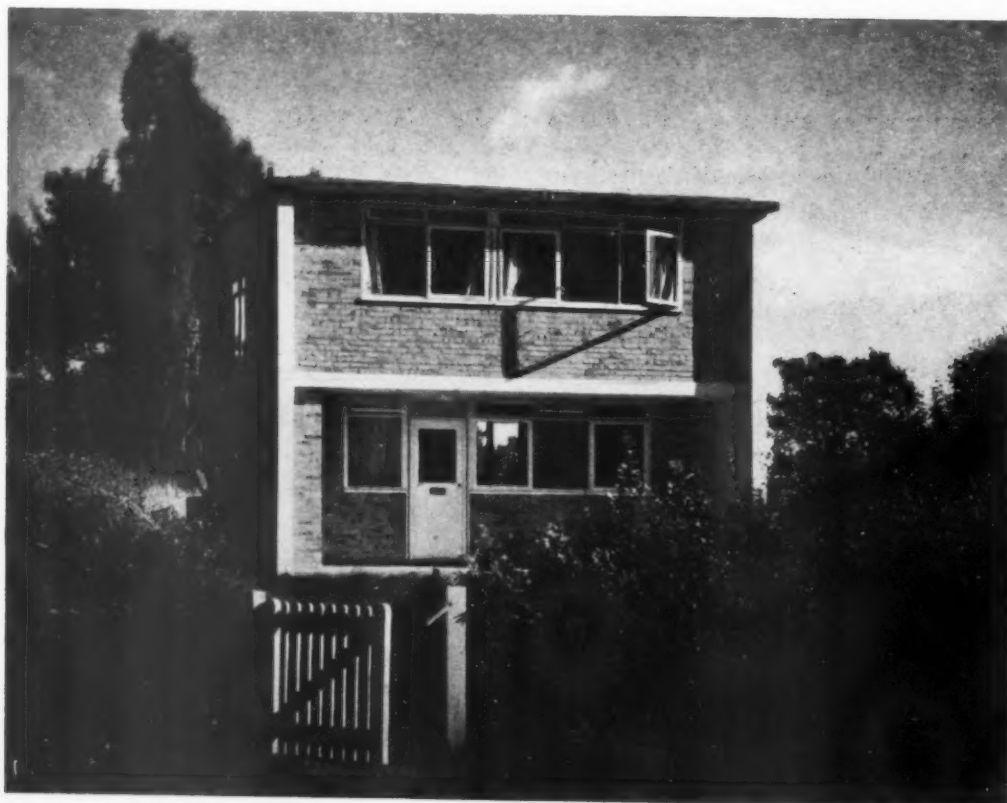
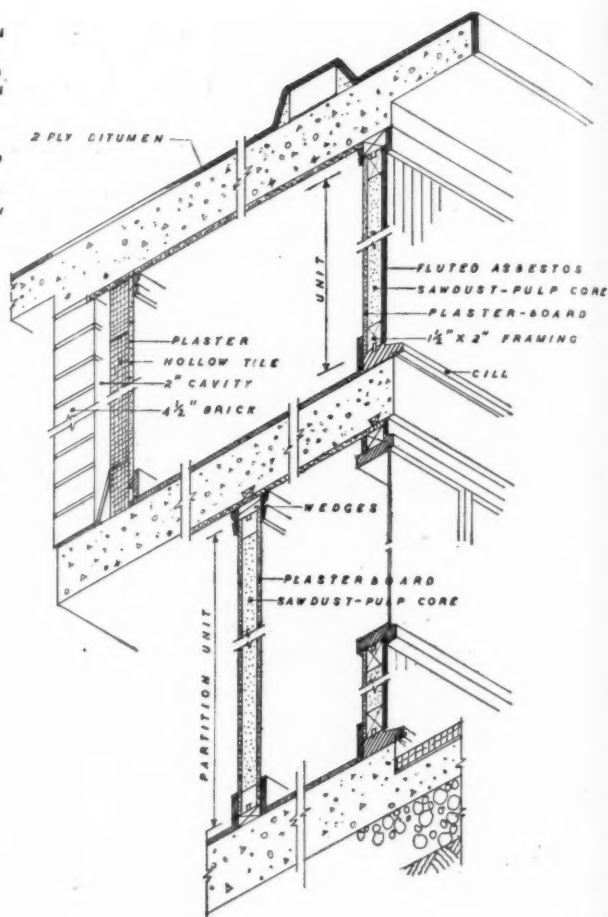


LONGITUDINAL SECTION

EXPERIMENTAL BOX-FRAME HOUSE DESIGNED BY F. R. S. YORKE, E. ROSENBERG & C. S. MARDALL



Above, the dining room. Right, diagram showing method of construction. Below, the front elevation of the house from the road.



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

2830

Coventry

PLANNING AND RECONSTRUCTION IN COVENTRY. A. R. Pugh and A. L. Percy. (*Journal of the Institution of Municipal and County Engineers*, Vol. LXXIII, No. 2, September 3, 1946, pp. 73-92.) Paper prepared for 73rd Annual Meeting and Conference of Municipal and County Engineers, London, July 4-5, 1946. Unbalanced state of industry through preponderance of motor industry. Population growth and statistics. Industrial and residential zoning and densities. Proposed allocation of open spaces providing 12 acres per 1,000 population thus exceeding recommendations of National Playing Fields Association. Corporation's progressive policy to control expansion through rural zoning. Road proposals, including interesting chart showing proportion of town population to volume of traffic on Class I roads. Effects of war on planning scheme. Basic survey of existing conditions making use of specially devised card index system for recording facts. Details of reconstruction proposals for central area. Illustrated by maps and charts.

STRUCTURE

2831

Flush Doors

FIRE-CHECK FLUSH DOORS (30 MINUTE TYPE). (*British Standard 459, Part 3: 1946. British Standards Institution*, 2s. 0d.) Economical type flush door giving 30 minute fire resistance. Sizes, types of timber, construction and door frame requirements.

2832

Brick Repair

BRICKLAYERS' REPAIR WORK. W. Frost. (*The Technical Press Ltd.*, 1944, 4s. 6d.) Manual of instruction. Diversionary section on garden ornamental brickwork. 95 pages. Illustrated.

Another collection of miscellaneous examples of brickwork, mainly concerned, in this instance, with elementary repairs. The sub-title, *A Manual of Instruction on Repairs to Damaged Property*, suggests that the information might have a special bearing on bomb damage, but in fact the examples given are typical of normal maintenance and repair work, and would be

expected to be common knowledge to the skilled bricklayer.

A brick dog kennel and a coal bunker and other random items are illustrated in the diversionary section, but since none of these appears to have any special merit or involve unusual types of brickwork, one cannot help feeling that their design might confidently have been left to the designer's own imagination. The textbook principle of giving a set of standard examples without analysing their particular characteristics is not one which is best calculated to encourage originality or an understanding of the materials in question.

2833

Decoration—Painting

DECORATION-PAINTING. B.S. Code of Practice. Draft for comment. General series code 2.4. (*British Standards Institution. 2nd Proof. 1946. 2s. 0d.*) Information on paints and distempers and painting processes used in buildings. Comprehensive list of definitions of materials, tools, accessories and painting operations. Description of paint types and their uses. Choice of paint and colour. Effects of climatic conditions. Preparation of surfaces and methods of application. Defects. Maintenance. Appendices covering paint exposure tests, bibliography and common causes of paint failure. To be read in conjunction with Codes:

2.41. Painting, staining and varnishing wood and treatment with preservatives.

2.42. Painting and distemping wall and ceiling boards and slabs.

2.43.* Painting metals.

2.44. Painting and distemping plaster, concrete, brick, stone, and allied materials. Of real value.

Architects have, notoriously little time to acquaint themselves with the technicalities of all the processes and materials with which they are concerned. For lack of adequate knowledge about paint and painting, reliance is often placed on the manufacturer's and builder's reputations, and factors other than technical ones may often govern the choice of paint. A study of this Code should enable a much closer control to be made of the painting material and processes with which the architect may be concerned, and to make certain that failures are reduced to a minimum. The information given, though condensed, covers a somewhat wider range than is necessary for a general working knowledge, but it is set out in such a manner that reference can easily be made to information which may be required for special conditions. The table of suggested paint types for specific purposes, and the notes on the effects of climatic conditions and on typical defects are especially useful.

The clause on colours and tints, while

offering some guidance, is treading on dangerous ground when it states categorically that "Light colours increase the sense of space; dark colours reduce it." Psychological questions of this kind might best be left, perhaps, to the architect until such time as there is more positive evidence to support the theories. This apart, the Code is a document which merits study and which is worth keeping for reference.

2834

Fuller House

THE 8,000 LB. HOUSE. (*Architects' Journal*, August 22, 1946, pp. 138-141.) Four-room, two-bath unit. Round shape, suspended metallic structure.

R. Buckminster Fuller's prefabricated house is a simplified development of his earlier design known as Dymaxion, propagated in the late twenties and early thirties. Its cylindrical walls (36 ft. in diameter) with a hemispherical roof, include the maximum possible space per unit surface area. The body of this all metal house hangs from a central mast to which the entire weight of the structure is transmitted. The framework of the structure is formed by three rings suspended from the mast. Cables, triangulated from the mast, weave through the successive rings, and are then brought down to support the floor. The cables are concealed in the air space between the roof and the ceiling. Between the outer skin and cable network is one or more layers of aluminium insulating foil. The outer vertical skin is half plastic, half aluminium. Sections of the upper aluminium band can be hand lowered to open screened areas for ventilation when air conditioning is not required. The Plexiglas window is sealed. Built-in screens around the house are of a rust and mildew-proof plastic, which can be cleaned with soap and water.

Exclusive of service facilities, the house includes only fifty types of parts. No part weighs more than 30 lb. The whole house (except for kitchen equipment) can be shipped in a cylindrical container 16 ft. long by 4½ ft. diameter.

MISCELLANEOUS

2835

London Building Laws

LONDON BUILDING LAWS. Horace R. Chanter, F.R.I.B.A., F.S.I., M.I. Struct.E. (B. T. Batsford, Ltd., 21s. 0d. net.) Deals comprehensively with London Building Laws, including London Building Acts, LCC Bye-Laws, Town and Country Planning Acts, Common Law Rights, etc. A most authoritative guide.

Building Law, particularly that relating to London, has reached such a degree of complexity that anyone whose bread and butter depends upon a knowledge of the subject, will turn with relief to an author who offers tuition and guidance.

The authors of many books on legal matters obviously suffer from the fear that simplification on their part may lead to misinterpretations, or cause their readers to overlook a section of an Act which may be of vital interest in an isolated case. As a result their works are not infrequently almost as complicated as the enactments they are seeking to explain. Mr. Chanter has not fallen into this trap and for every reader who is inclined to blame him for not pointing out a particular obstacle, there should be hundreds who will thank him for the clear guidance which results from ignoring the trivial.

As would be expected, the book refers to the principal Acts in detail; the London Building Act 1930, the 1935 and 1939

Amendment Acts and also to the LCC Bye-Laws. Adequate space, for anyone but the specialist, is also devoted to the Town and Country Planning Acts, the Restriction of Ribbon Development Act 1935, the Public Health (London) Act 1936, the Housing Act 1936, the Factories Act 1937 and the Metropolitan and Building Acts.

Other chapters and the Appendix, deal with the less obvious features of the Law and other relevant subjects, such as *Other Acts, Bye-Laws and Regulations*, Common Law Rights, Case Law, the County of London Planning Scheme, a Historical Review and a list of official and other publications of which the student and practitioner should be aware.

Mr. Chanter has not aimed to teach his readers the whole of the Law. He has set out to introduce them to the subject and to give them such guidance and practical assistance with their every-day problems, as he can. His grasp of the subject is unquestionable, for Mr. Chanter is a District Surveyor. His ability to write on his subject will not be questioned by anyone who has read his book.

2836 Contractor's Plant

GUIDE TO CONTRACTOR'S PLANT. Noel D. Green. (George Newnes Ltd., 1946, 15s. 0d.) Guide to working principles, maintenance, economic use, with emphasis on heavy civil engineering plant. Written as practical hand-book rather than text-book. Information generally up to date and clearly presented, although there are surprising omissions. 26 tables of technical data. 105 illustrations.

After a general chapter on choice and maintenance of plant, the main classes are treated in separate chapters. Most of the familiar types of contractor's machinery are dealt with, including such items as pile drivers, light railways, and de-watering gear, which are normally outside the architect's scope. In a work dealing with heavy plant it is surprising to find that tractor-driven scrapers are not dealt with more fully, while that ubiquitous and useful machine, the bull-dozer, is not mentioned at all. Power driven hand tools, now coming into increasing use in building work, are not dealt with, nor is wood-working machinery. There are some useful practical hints on the purchase of secondhand plant, on safety precautions, and on the correct use of lubricants.

Treatment of every kind of machine now in common use on public works would have needed a larger book, but the omissions mentioned, and others, make this less useful than it might have been.

2837 N. Ireland Housing

FIRST ANNUAL REPORT, 1945-1946. Northern Ireland Housing Trust. (HMSO, 1946, 8d.) Activities of Northern Ireland Housing Trust. Housing position at March 31, 1946, together with up-to-date review covering period up to August 31, 1946. Plates showing various estate lay-outs and some typical plans of houses and flats.

A survey carried out in 1943 by the Ministry of Home Affairs showed that approximately 100,000 new houses were required in Northern Ireland. The magnitude of this task was pointed out in 1944 in the Interim Report of the Planning Advisory Board, and the Government decided to set up an additional agency to cope with requirements for building workers' houses. Thus the Northern Ireland Housing Trust was established under the terms of the Housing Act (Northern Ireland), 1945. The Trust, which is Government-financed, has

power to acquire or dispose of land, and to carry out building schemes. Its development schemes are subject to Government approval.

The report explains the Trust's procedure in connection with the acquisition of sites; the principles to be adopted in the lay-out of estates; and the standards of accommodation to be aimed at.

A survey follows of achievements in Belfast and throughout the provinces giving details of the various sites acquired; of numbers and types of houses to be erected or already under construction; of the type of estate development adopted or proposed together with communal services and shopping facilities where these have to be provided; and of the system of construction chosen. A summary of up-to-date achievements shows that contracts have been placed for just over 3,000 houses on sites where roads are either completed or sufficiently near completion to allow building. Of these 116 are now inhabited. Land has been acquired for further 2,300 houses and prospective sites for 1,400 houses have been chosen.

With regard to constructional methods it is stated that the Trust is solely concerned with permanent types of housing accommodation, but that it is its policy to develop those types of prefabricated or other non-conventional permanent houses which can be built with local materials and labour. The Orlit, Easiform and No-Fines Concrete systems of construction were examined and accepted as suitable for Northern Ireland.

Other aspects dealt with in the report include the Trust's relations to local authorities; the placing of contracts; housing estate management; and selection of tenants.

2838 Specifications

BUILDING SPECIFICATIONS. J. Sumner Smith, F.S.I., F.I.A.R.B. (Hutchinson's Scientific and Technical Publications, 1946, 16s. 0d.) Complete combined specification and bill of quantities. Order of a specification. Hints on specification writing.

About one-half of this book is devoted to an example of a combined specification and bill of quantities and to a section entitled *Order of a Specification*. The former is a complete, combined specification and bill of quantities for a small alteration job and, as such, is of some value, although practising architects and surveyors may be expected to have evolved their own methods of dealing with this type of job and, as it represents a special case, it is not necessarily an ideal example for the student.

Order of a Specification extends over nearly 30 pages, and consists of an enumerated list of items for which specification clauses may be required. The author must have felt this would fulfil a definite need; whether such a need, in fact, exists, must remain a matter of opinion. The remaining half of the book deals largely with the questions of why specifications are required and how they should be written, under such headings as *Hints on Specifications*, *Specification Writing*, *Typical Examples*, *the Construction of Clauses*, *the Art of Specifying*, etc.

The purist will receive some warning of the style which persists throughout the book, by reading the foreword in which such remarks occur as, "Although specifications are of a higher order to-day than what they were but a few months ago. . ."

Mr. Sumner Smith opens the chapter on *Specification Writing* by saying that the writer should have a thorough knowledge of materials and building construction, etc., and goes on to point out that the writer should be able to write clearly, precisely, and concisely. "To illustrate the foregoing," continues Mr. Sumner Smith, "we will take as an example a simple article, a bolt. We should say first that that which will be said in regard to a bolt is in principle in speci-

fication writing, and it also expounds the principle which should govern specification writing." This is followed by nearly 1,000 words on the bolt in question, and one feels entitled to wonder whether Mr. Sumner Smith realises that the ability to write clearly, precisely and concisely is as necessary to the author of a technical book as it is to a specification writer.

Specification writing is not a new subject and much has been written about it already. Although it would be untrue to say that the book contains nothing new, there must be some doubt as to whether the new ground covered warrants a book of this size and type.

2839 Building Abbreviations

THE IRONMONGER GLOSSARY OF BUILDING TRADE ABBREVIATIONS. John Croydon. (The Ironmonger and Builders' Merchant and Metal Trades Advertiser, 1946.) Glossary of abbreviations in building and ancillary trades together with British Standard Symbols and Colour Codes. Set out under trades and also in alphabetical order. 127 pages.

A compact and useful addition to the office library so long as abbreviations persist: but the list shows clearly how confusing abbreviations have now become when many of them, though identical, may have two or more different interpretations.

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.

2840 Teak

Q As a regular reader of the A.J. may I ask you a question which is hardly architectural, but of some interest to my friend, an assistant Industrial Designer? He is making a design for a toast rack, and intends using thin teak off-cuts for the division pieces.

Even though these will be shellaced, surely the use of teak on an article the contents of which come into contact with the mouth, would be dangerous, since teak contains certain poisonous saps?

A We can find no reference to there being any danger of this anywhere.

We have referred the matter to the Timber Development Association, who also do not consider that there will be any danger from the use of teak in this way.

2841 Greyhound Tracks

Q We are preparing a layout for a Greyhound Racing Track. Where can we obtain some information and technical data on this matter?

A A list of the requirements of the Stewards of the National Greyhound Racing Club includes such headings as Training Kennels, Isolation Kennels, Racing Kennels and Paddock, Track, Judge's

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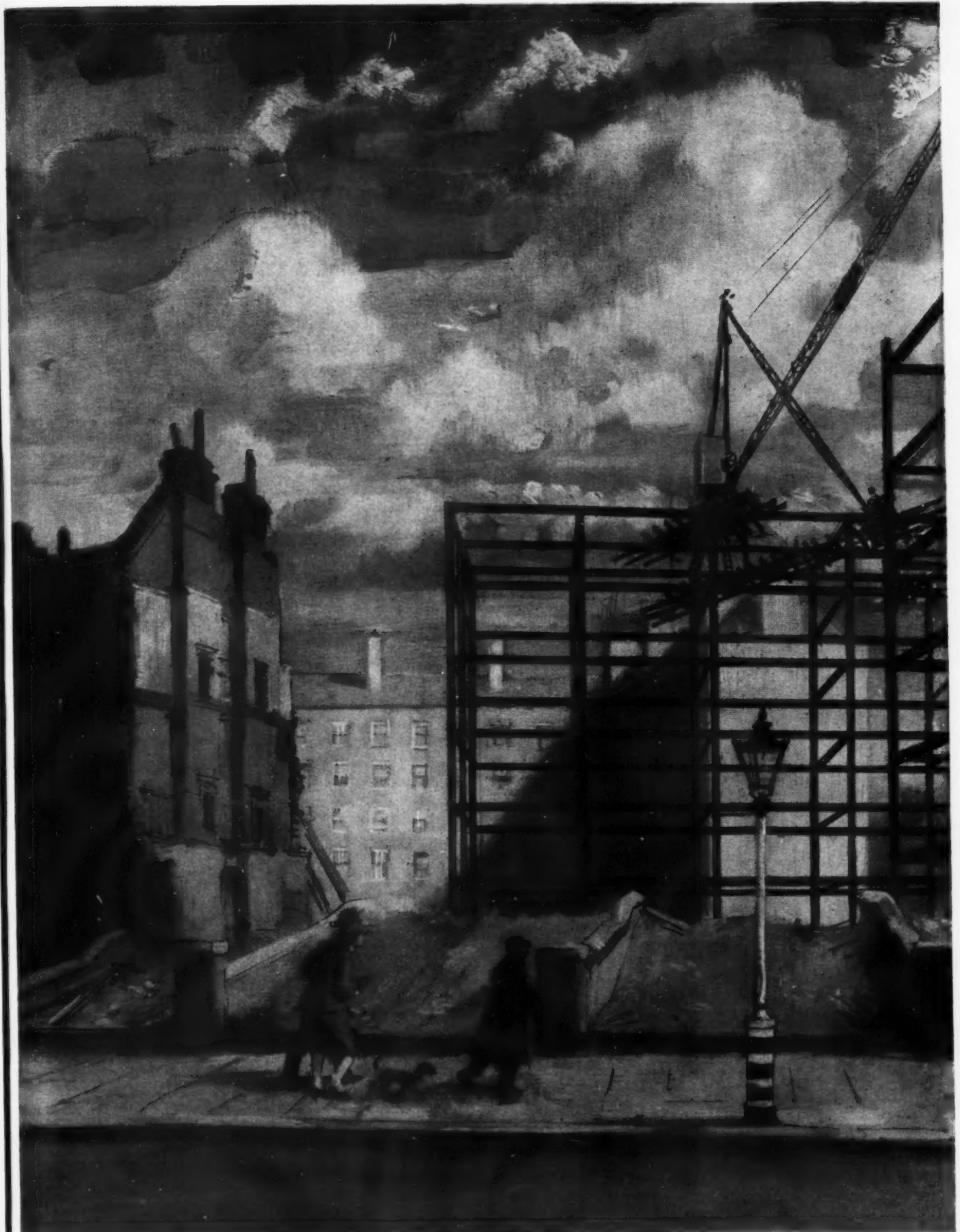
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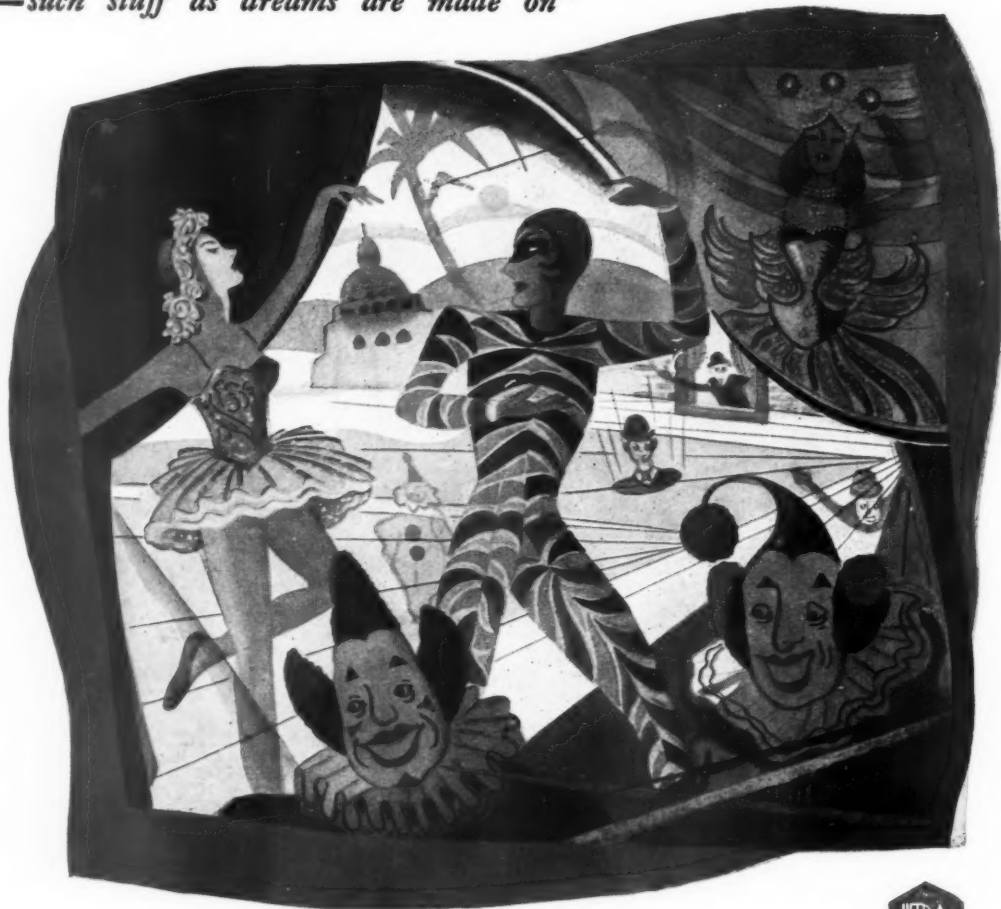


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Mr. Aldridge, the Secretary, will be pleased to give you any further information which you may require.

This special section is virtually a resumption of our pre-war Trade Notes. It now covers a wider scope, however, under a new title recording not only the marketing of new designs and the reappearance of familiar products, but also the general trend of developments within the industry. Manufacturers who have new designs in hand or any other news of interest to architects are invited to send full information to the Editor.

THE INDUSTRY

[by Philip Scholberg]

INDUSTRIAL PRODUCTION

A fortnight ago the Minister of Supply held a Press conference and produced some quite encouraging figures about the output of housing fittings and components. Overwhelmed with forms and permits, we all know that there is still a great lack of everything at the receiving end of the production line, but in several trades there has been a considerable increase over pre-war outputs. Electric fires are up from 113,000 to 206,000, gas water heaters from 12,500 to 27,000, immersion heaters from 9,000 to 39,000, and electric wash boilers from 5,000 to 19,000, all these figures being monthly outputs averaged for 1938 and compared with September, 1946. Various other items such as baths, rainwater goods and electric cookers are roughly up to pre-war. Switchgear is a bit behindhand, but there is a general shortage of ceramics which is affecting electrical gear of all kinds. Ceramic production has been started at the Royal Ordnance Factory at Swynnerton, ROF Poole is on the verge of starting, while Cardiff and Glasgow are to follow shortly; this should go far to relieve the shortage, but it is possible that the lack of 5- and 15-amp. sockets may in part be due to the new 13-amp (3-kW) type which is intended to be a universal socket for all appliances. Several manufacturers are rumoured to be ready to concentrate on this type as soon as the necessary standards have been agreed. It seems inevitable that the change will produce a temporary drop in output, but it is

probably worth doing now for the savings to be made in wiring and electrician's time. I hear, incidentally, that the plug pins will be square or rectangular in section, with a small cartridge fuse in the live pin, rated according to the appliance in use.

The other major bottle neck is, of course, the foundry trade, which needs another 20,000 men. Efforts are being made to attract them, but it is a dirty trade from the operative's point of view and needs far more mechanisation than seems to be possible at the moment, owing to the lack of moulding machinery.

Quite an important factor in the output increase is the standardisation of various components and the reduction in the number of types produced. Mr. Wilmot quoted baths as an example, with six current types against twenty pre-war; the first figure is, I believe, right, but the manufacturers themselves quote a pre-war figure of something like 600 types when all the combinations of fittings are taken into account, a reduction which should ease the difficulties in an industry where some factories are already highly mechanised. It is interesting to note that the October figure of about 31,000 baths includes 200 of the pressed steel porcelain enamelled type which are now coming into production.

Faced with a set of figures which show that the majority of suppliers have been doing very well (as Mr. Wilmot very fairly admitted) it seems a little capricious to ask if any attempt is being made at a long-term plan. With a backlog of six years to make up, including bomb damage, housing, schools, hospitals, and all the other essentials, it is obvious that the pre-war level of output is far too low. But what should the target be? Double or treble pre-war would be none too much for several years, but output will in due course stabilise itself (at how much above 1938?—20 per cent.?) and the firms who have had the biggest output may be furthest out on the branch. I know of one or two who are already wondering rather fatalistically about this. Restrictions in the supply of raw materials are quite an effective brake on over expansion, but the present overwhelming demand makes it only too easy for the trade to inflate itself too far, with a correspondingly large explosion when something near stability is reached. So far as I know the only estimates which have been made of potential demand, including replacements, are those contained in the PEP report on the market for household appliances, and this does not include things like baths or switchgear, not to mention other goods like rain-water fittings and door furniture. Ordnance factories (Woolwich Arsenal is now casting water taps) can act as a mild cushion against undue expansion, and, provided that the Byrnes-Bevin-Molotov set-up can sort itself out, can presumably continue to do so, but their output is hardly big enough to have very

much effect in the long run, and a plan stretching further than the end of next year is an urgent necessity.

AIROH

At the same meeting Mr. Wilmot referred to the opening of the 10,000th Airoh house, which was virtually ignored by the dailies save for the removal of the ceremonial shrubbery on the day after the opening. Actually this house is rolling out of the five factories at the total rate of one every five minutes, and it is expected that this rate will be doubled by the time the programme comes to an end in the autumn of next year. What the various plants are going to do then is either not settled or not for publication, but there are rumours of a two-storey job which will presumably form part of the permanent prefabricated programme.

FLOOR DATA

An Information Book about the Bison floor has just arrived with a letter which admits quite frankly that it is intended to increase the sales of this floor, but adds "our paramount aim has been to follow the advice frequently given by journals such as your own—Give Information." Thus challenged, I have naturally looked through this book with a view to finding faults. All the essential data is there, including such important but frequently forgotten details as the accommodation of services, expansion joints and sound insulation, and there are also extracts from LCC Regulations and the BSI proposals which are not essential, but certainly useful to have ready to hand. Full marks for this: paper makes the available supply short, but the publishers will meet applications* as well as they can.

SELLING TACTICS

An intelligent little booklet called *Selling to the Technician*, by N. C. Stoneham,† is, in a sense, a plea that all manufacturers should develop the information rather than the selling outlook. It is addressed to the manufacturers rather than to the architect, but it is refreshing to find that other people are doing a bit of nagging on their own account. Architects have suffered far too long from the high-pressure salesman who merely says his product is the best and has never heard of any of his competitors.

But, as Mr. Stoneham points out, it is not always the salesman's fault. Too often the manufacturer himself has never looked at his product from the architect's point of view and has never done any research to find out the answer to the questions that the architect is bound to ask. This lack of understanding is the basic reason for most of the bad advertising and selling tactics with which we are often afflicted. Good technical information, whether in a catalogue or from a salesman, is always welcome, and manufacturers who think that architects are unresponsive and difficult should look a little nearer home before they complain too loudly.

NEXT YEAR'S EXHIBITIONS

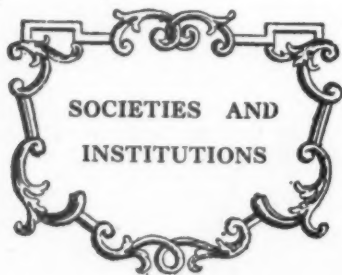
Olympia is to see the revival of the Ideal Home Exhibition next spring, from March 4-29. So far the advance publicity is justifiably a little guarded, stress being laid on the fact that the labour involved will not affect the housing programme, but the most important point of all, so far as the visiting public is concerned, will be the rule that all exhibits must be on sale and not "available later" or "for export only."

The Building Trades Exhibition is also to be revived in the Autumn, but the dates are not yet definitely settled.

* To Concrete Ltd., Green Lane, Hounslow, Middlesex.
† From Stoneham and Kirk, 50, Bloomsbury St., W.C.1.



The Royal Ordnance factories in many parts of the country are turning their efforts to peaceful channels. Above, casting taps at Woolwich Arsenal.



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.

NHTPC

Lewis Silkin

November 25, at the County Hall, London. Regional Conference of the National Housing and Town Planning Council. Speech by Lewis Silkin, Minister of Town and Country Planning.

L. Silkin: It is not often that representatives from so many Local Authorities in any area are able to gather together to discuss their common problems but the value of such friendly conferences needs no emphasis from me. I should like my first words therefore to be ones of congratulation to you in re-instituting so soon after the war your practice of Regional Conferences.

LONDON PLANNING

London Planning is striding forward. Since Professor Abercrombie and Mr. Forshaw surprised the world in 1943, while the war was still raging, by setting up a landmark in the history of planning with the County of London Plan, we have had the second Greater London Plan, and we are now impatiently awaiting the last of the three—the City Plan. Already the Consultants, Holden and Holford, have produced their Interim Report and they are now working on their final plan. When we have that, the whole of this enormous area, 2,700 square miles, with a population of 10,000,000 will be covered by an outline plan and an outline plan which is generally accepted by all the authorities concerned and the Government.

Already we know most of the pattern to which we hope to shape the greatest urban concentration in the world—and we have started the job.

The most far-reaching of the proposals in the two plans is that for the decentralization of population, 600,000 odd from the County, 400,000 odd from the congested

areas outside the County.

Nothing like all of the decentralization of course is to be solved by New Towns. Much of it must be carried through by the expansion of existing towns; in many ways a more difficult piece of planning. The plans contemplate that approximately 640,000 of the population to be decentralised must be accommodated in expanded towns, approximately 400,000 in New Towns. Already in settling the sites for new housing the London County Council and other housing authorities in the region have filled in a good deal of the expansions.

If decentralization was the most far-reaching proposal in the plans, the rail and road schemes are probably the most difficult.

On railways we are faced with the bad siting of several of the main stations and with bottlenecks into London. An expert Committee has examined the railway proposals in the County of London Plan and although on the whole they are unable to support the suggestions made because of operational difficulties, they have in a published report (the Inglis Report) made far-reaching counter proposals which include the main objects of the plans. They provide for the removal of the surface stations at Charing Cross, Blackfriars and Cannon Street, with their cross-river bridges, the facilitation of South Bank re-development and the provision of better north to south tube connection across London. The Inglis Report is at present being examined by the Minister of Transport and myself.

On the major road proposals there is substantial agreement. These have been very thoroughly investigated by the Minister of Transport, in consultation with my Department, and the principles are accepted, though certain variations will be made in the actual routes. A plan will be issued shortly for the guidance of Highway and Planning Authorities, showing the final proposals. Examination of the sub-arterial road system will take rather longer as some very difficult questions arise on this, but I hope that we will be able to announce general conclusions fairly soon, since it is of course vital to planning authorities beginning on schemes of reconstruction to know where and how all the main roads will run.

If decentralization proposals are the most far-reaching, and transport the most difficult, I think those that come under the head of civic planning are the most fascinating. You will all remember that the County Plan made provision for a Government and Commonwealth precinct, for a University precinct and for the resuscitation of the South Bank. This last was perhaps the most popular of all proposals in the Plan; at any rate it was the least controversial. We shall see the revival of the South Bank in our lifetimes.

ADVISORY COMMITTEE

A year ago I set up an Advisory Committee for London Regional Planning under the Chairmanship of Mr. Clement Davies. The job of the Committee was to co-ordinate examination of the Greater London Plan and to arrive at an agreed outline plan which might serve as the basis for planning throughout the area. The Committee consisted of representatives of all the County Councils in the region, of all the joint committees and of the City, and they reported in July. Last week I was able to announce in the Commons that the Report was being published. I said:

"The report discloses general acceptance by all the planning authorities of the main outlines of the Abercrombie Plan. The Government is indebted to the Committee and to the Honourable and Learned Member for Montgomery for producing an agreed report in so short a time.

"The Government welcomes the Report but there are certain reservations which I must make. The Report proposes the

accommodation, within the green belt ring, of nearly 160,000 more people than suggested in the Plan. The Government has already declared its determination to safeguard this ring in order to stop the continued outward spread of London, and I shall be unable to accept these expansions."

Unfortunately, owing to printing difficulties the Report* is not yet in the hands of the Local Authorities, but we shall be sending it round in a week or two and putting it on sale, and I commend it to the attention of you all.

NEW TOWNS

This is a very topical subject. Although the New Towns policy commands, I believe universal agreement, the proposal actually to build a New Town at Stevenage, at Crawley, at Harlow, at Hemel Hempstead, or indeed anywhere else, instantly and very naturally attracts a barrage of criticism. It is said that no adequate consideration has been given before particular sites are selected; it is said that officials shut their eyes and stick a pin into a map; that we ought to expand existing towns and that we ought to build on virgin land according to whatever suits the objectors' case; it is said that there is no consultation with the people mainly affected; it is said that the Minister of Town and Country Planning is a pocket Hitler, though without that Leader's flair. In view of all this it is perhaps worthwhile going over the history of the New Towns.

THE SITES

The Greater London Plan put forward 10 sites for New Towns of varying ultimate populations and it did that after looking at 30 sites. Of the 10 put forward, the Plan recommended that 8 should be selected. You will remember that, in order to achieve the necessary decentralization of London, it is proposed to provide for something like 400,000 people in New Towns and in the report of the New Towns Committee a population of approximately 50,000 is suggested as the maximum; in practice we are working to a maximum of approximately 60,000.

All the 10 sites have been exhaustively examined by the Inter-Departmental Committee from the points of view of attractiveness to industry—this is absolutely vital—transport facilities, provision of public services, loss of agricultural land; and after that exhaustive process Local Authorities are consulted. Local Authorities are brought into the consultation as soon as it is possible and useful to do so and of course they are well aware of the general policy as a result of the plans.

The New Town proposals, on which I am going ahead, are generally agreed by the Advisory Committee. They supported Stevenage, Harlow and Hemel Hempstead (they approve the change from Redbourn to Hemel Hempstead); Crawley was not within the area they were dealing with; they confirmed disapproval of the proposals for Holmwood, Stapleford and Margaretting; they recommended Ongar; and this proposal, which gives rise to certain difficulties, is still under examination; and they also recommend a New Town at Pitsea-Laindon. This latter proposal is being examined at the present time.

That leaves two other towns proposed in the Plan, Meopham and Crowhurst. Particular difficulties do arise on both of these and they are still under examination.

Criticism has particularly focused on the procedure at the Inquiries with a proposal that there should be investigation into the merits of the particular sites at these Inquiries and not merely a hearing of objections. It is also suggested that the procedure should follow that of the ordinary

*Report of the Advisory Committee for London Regional Planning to the Minister of Town and Country Planning. Now obtainable from HMSO, 2s. 6d.

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A.J. 5.12.46

application by a Local Authority, or other promoting authority, on which a Minister adjudicates in a quasi-judicial capacity, where each side presents its own case, cross-examines the other and is itself exposed to cross-examination.

This misconceives the purpose of the Inquiry. Before an order is made designating the area as the site of a proposed New Town I have to be satisfied, after consultation with Local Authorities concerned, that it is expedient in the national interest that the area should be developed as a New Town; and as I have shown, I do so satisfy myself first by close examination of the Abercrombie proposals with the Departments concerned and, second by consultation with the Local Authorities before I make the Draft Order. This is a Ministerial and administrative decision for which the Government and I must accept responsibility. It would be quite inappropriate and alien to our system of Government responsibility to make these decisions subject to confirmation by an outside Tribunal. However, it is the duty of the Minister to have regard not only to the interests of objectors but also to those, a much larger number of the public who will be seeking accommodation in the New Towns. Those interests may in certain respects conflict and the resolving of that conflict becomes a question of public policy which has to conform to national policy and can only be settled finally by those responsible for national policy.

These Inquiries are essentially a hearing of objectives; not inquiries into the merits of the scheme. Nevertheless, to meet the criticisms which have been made that not enough information is given at the Inquiries, I have now arranged, as I stated in the House last week, that in future, in addition to the Inspector whose duty it is to report the objections to me for my consideration, an officer of my Department will

attend to explain the proposed project and the reasons which have led to it. He will be there to explain the proposal, but not to be cross-examined.

Of course, what people really want to know is how the New Town is going to affect their house or land. That no one at this stage can tell them. At this stage there is nothing but an outline on a map. Later on when a preliminary plan has been made for the town, people will have their chance to see exactly how they may be affected, and they will then be given opportunity to express their views about how the town should be planned and, if they wish, to object to particular proposals as they affect them. I expect we shall have plenty of fun then.

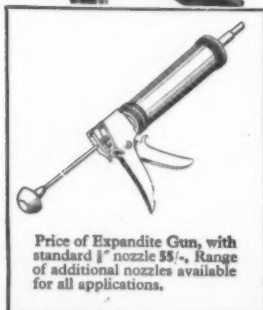
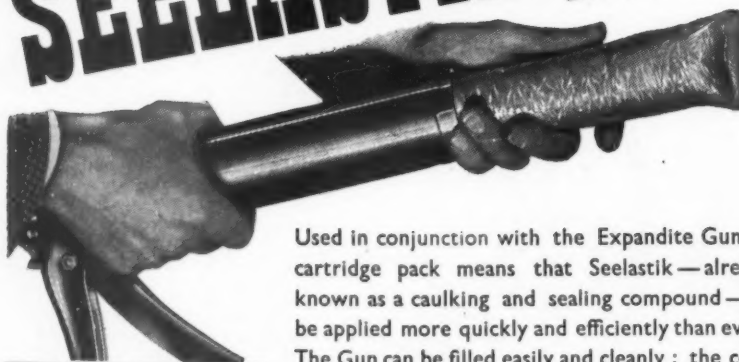
You will have noticed in the King's Speech, the reference to "proposals to deal with compensation and betterment, in relation to town and country planning and otherwise to improve the machinery of planning." The Bill will be formidable. It will also I hope be invaluable. It will provide planning authorities with greatly improved tools for their work.

Announcements

Major Morrison, R.E., Officer i/c Works & Buildings, EFl/MEA., P.O.B. 1006, Cairo, M.E.L.F., would like manufacturers in the United Kingdom to forward catalogues of their various products.

Mr. C. R. Edwards, A.M.P.T.I. M.R.San.I., has been appointed Chief Officer of the Finchley Borough Council's new Housing and Town Planning Department at The Avenue, Finchley, N.3. The Chief Architect, Mr. R. A. Horsman, A.R.I.B.A., A.M.T.P.I., would be pleased to receive trade catalogues and technical information.

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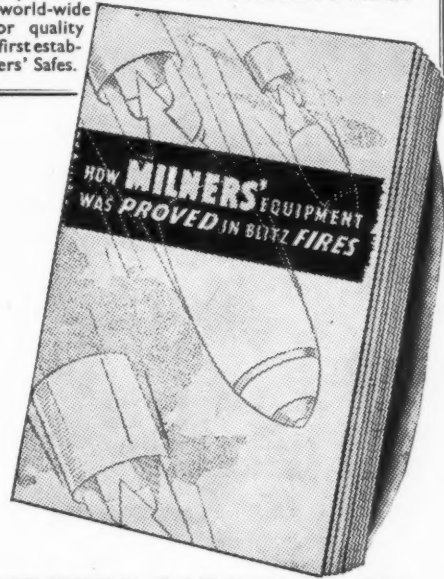
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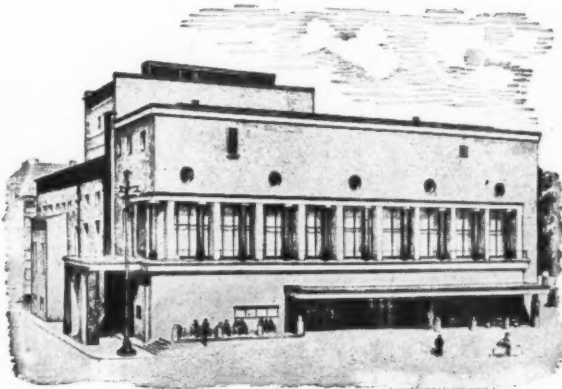
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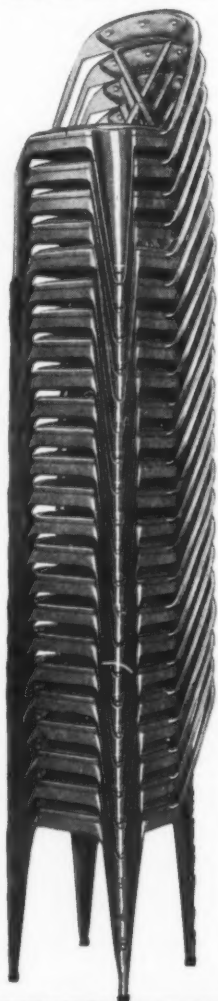
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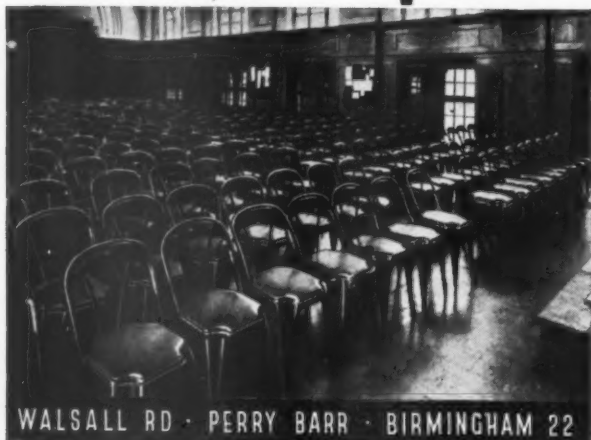


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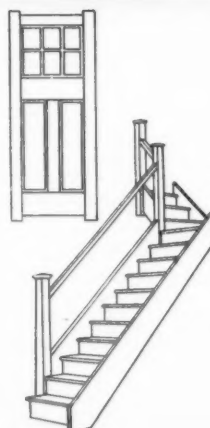
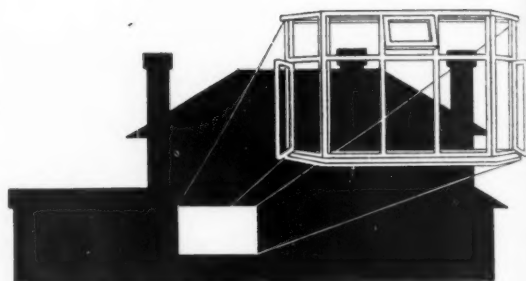
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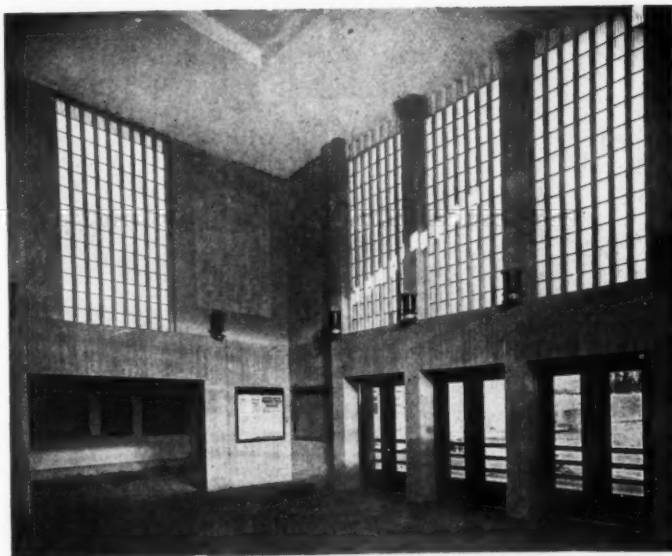
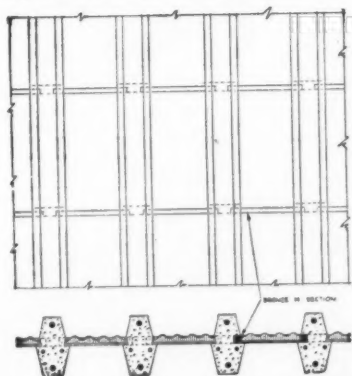
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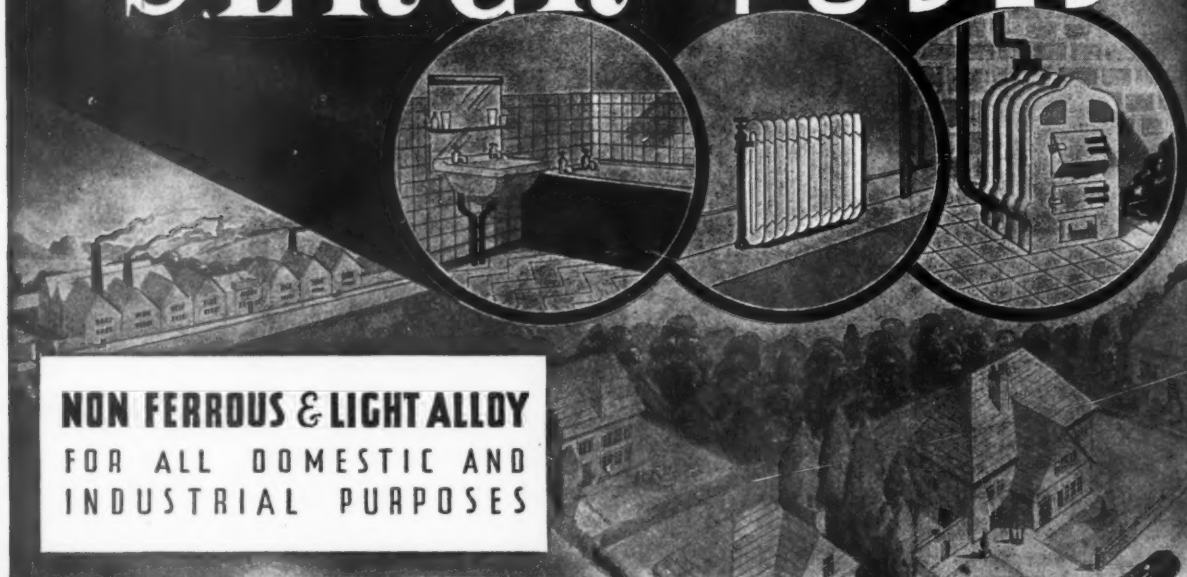
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

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

Public and Official Announcements

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THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 75, Eaton Place, London, S.W.1. TEL. SLOANE 5615. 991

LONDON COUNTY COUNCIL.

Applications are invited for the following positions:

(1) QUANTITY SURVEYORS AND ASSISTANTS (SENIOR AND JUNIOR). Required for:

(a) "Taking-off" quantities, measuring, and adjusting variations under building contracts and preparing estimates.

(b) Preparing estimates and measuring repairs and minor works under schedule of prices (experience of London County Council, War Department or Office of Works Schedules).

(c) Working up, etc., in connection with domestic buildings and general working up (junior).

(d) Measurement of roads and sewers and housing work on cottage estates, preparation of interim and final bills on Schedules.

(2) ARCHITECTS, BUILDING SURVEYORS, TECHNICAL ASSISTANTS (ARCHITECTURAL), AND JUNIOR DRAWING OFFICE ASSISTANTS. Required for:

(a) Work in connection with the design and development of housing schemes for cottage estates and block dwellings (experience in domestic architecture preferred).

(b) Similar work in connection with schools and hospitals.

(c) The preparation of estimates and specifications for works of cleaning and painting, repairs and minor alterations at schools and hospitals.

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

(e) Junior drawing office assistants for general drawing office work. Should be able to finish plans from rough drawings, take dimensions and make sketches. Pay, according to age and experience, up to 65s. a week, plus cost-of-living allowance.

(3) HEATING ENGINEERS AND HEATING AND VENTILATING ASSISTANTS. Good technical education required. Applicants must be experienced in the design of, and preparation of drawings, specifications and estimates for modern hot water heating, ventilating and hot water supply schemes.

Except as otherwise shown, salaries for the above positions will be determined by qualifications and experience up to a maximum of £420 a year, together with cost-of-living additions up to £90 a year, according to basic salary. Salary up to £500 for certain positions of heating engineer and building surveyor. Successful candidates will be engaged on a temporary basis, but will be eligible for appointment, according to merits, for permanent appointment on the occurrence of vacancies. Temporary staff are required to contribute to the Council's Superannuation and Provident Fund.

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

WEST SUSSEX COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments, on the permanent staff, at salaries in accordance with the National Scales of Salaries:—

(a) ONE CHIEF ASSISTANT QUANTITY SURVEYOR (Grade VIII, A.P.T. Division). Commencing salary £625 per annum, rising by three annual increments of £25 to a maximum of £700 per annum. Applicants must be Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), with extensive experience. They should be capable of undertaking all stages of the work for the preparation of Bills of Quantities, including preliminary estimates; the preparation and settlement of final accounts; site measurements; and the preparation of interim certificates.

(b) ONE ASSISTANT QUANTITY SURVEYOR (Grade V, A.P.T. Division). Commencing salary £460 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £510 per annum. Applicants should possess approved qualifications and experience, and preference will be given to those who are Members

of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

(c) ONE ASSISTANT ARCHITECT (Grade IV, A.P.T. Division). Commencing salary £420 per annum, rising by three annual increments of £15 to a maximum of £465 per annum.

(d) ONE JUNIOR ASSISTANT ARCHITECT (Grade I, A.P.T. Division). Commencing salary £330 per annum, rising by three annual increments of £15 to a maximum of £375 per annum.

For appointments (c) and (d) preference will be given to applicants who have passed the whole or part of the examinations of the R.I.B.A.

All the above appointments will carry a cost-of-living bonus, at present £59 16s.

The appointments 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 full 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, suitably endorsed, not later than Thursday, the 12th December, 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. 903

METROPOLITAN BOROUGH OF PADDINGTON.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, in the Borough Engineer and Surveyor's Department, at a commencing salary of £460 per annum, plus cost-of-living bonus, at present £59 16s. per annum (£48 2s. for women). The post will be graded under the National Joint Council Scales of Salaries.

Applicants must be Registered Architects, members (by examination) of the R.I.B.A., and have had extensive experience in municipal work, including working class flats. London experience will be an advantage.

Forms of application and conditions of appointment can be obtained from the undersigned, to whom applications are to be returned, not later than 20th December, 1946.

Canvassing, directly or indirectly, will disqualify.

W. H. BENTLEY,

Town Clerk.

Town Hall, Paddington, London, W.2. 921

DEVON COUNTY COUNCIL.

Applications are invited for the following appointments, in the County Planning Department:—

(a) SENIOR PLANNING ASSISTANT, at a salary in accordance with Grade V of the National Scale of Salaries (£460 per annum, rising to £510 per annum), plus cost-of-living bonus, at present £59 16s. per annum, and car allowance on the County scale.

Applicants must have had considerable experience in the preparation and administration of Town Planning schemes for urban and rural areas, including supervision of staff, and must be Corporate Members of the Town Planning Institute.

(b) DRAUGHTSMAN, at a salary according to age and experience, but not exceeding £300 per annum, plus cost-of-living bonus.

Applicants should be good draughtsmen and colourers, and experience in the preparation of maps and plans in connection with Town and Country Planning will be an advantage.

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

Applications, giving full particulars of age, qualifications, experience, and present and past appointments, accompanied by copies of three recent testimonials, must be submitted to the undersigned not later than 16th December, 1946.

A. J. WITTHCOMBE,

Clerk of the County Council.

The Castle, Exeter. 940

CITY OF OXFORD.

APPOINTMENT OF CITY ARCHITECT.

Applications are invited for the permanent post of City Architect, at a salary of £1,300 a year, plus bonus at the current rate. The Council intends in due course to review the salaries of Chief Officers, including that assigned to the post of City Architect. A car allowance will also be made. If necessary, housing accommodation will be made available.

Further particulars can be obtained from me, together with application forms, which must be returned to me by the 21st December, 1946.

Canvassing of members of the Oxford City Council, either directly or indirectly, in connection with this appointment will disqualify the candidate.

HARRY PLOWMAN,

Town Clerk.

Town Hall, Oxford. 935

BATH MUNICIPAL CHARITIES.

ST. JOHN'S HOSPITAL, BATH, SOMERSET.

Applications are invited for the appointment of SURVEYOR to the above Charities, and should be forwarded, together with qualifications, age, and experience, by 10th December, to Mr. A. I. Ingram, M.A., Clerk to the Trustees, 4, Queen Square, Bath, from whom details of the appointment can be obtained. 959

URBAN DISTRICT COUNCIL OF CRAYFORD. ARCHITECTURAL AND TOWN PLANNING ASSISTANT.

Applications are invited for the appointment of Architectural and Town Planning Assistant, in the Engineer and Surveyor's Department. Salary, Grade III, the National Scales (plus London "Weighting"), £410×£15=£455, plus prevailing war bonus, at present £59 16s. per annum. Preference will be given to candidates possessing a recognized professional qualification, with experience of Interim Development procedure.

The appointment will be subject (i) to the National Scheme of Conditions of Service, (ii) the Local Government Superannuation Act, 1937, (iii) medical examination, (iv) termination by one month's notice on either side.

Applications, stating age, qualifications and experience, with copies of two recent testimonials, must reach the Engineer and Surveyor, Town Hall, Crayford, not later than 13th January, 1947. Canvassing will disqualify.

G. B. HODGSON,

Clerk of the Council.

Town Hall, Crayford, Kent. 972

GLASGOW CORPORATION WATER DEPARTMENT.

ARCHITECTURAL ASSISTANT (TEMPORARY APPOINTMENT).

Applications are invited for appointment, in a temporary capacity, as Architectural Assistant. Candidates should have good practical experience in the renovation, maintenance, and reconstruction of house property, including sanitation and drainage, and be good draughtsmen. Experience in the design and construction of pumping stations would be an advantage.

The salary will be determined by age, qualifications and experience, within a maximum of £510 per annum (inclusive of current bonus).

Applications, stating age, nationality, and full details of experience and positions held, with dates, and accompanied by copies only of one or more testimonials, should be delivered to the undersigned not later than 31st December, 1946.

STANLEY D. CANVIN, M.Inst.C.E.,

General Manager.

City Chambers, Glasgow, C.1. 974

MANSFIELD AND DISTRICT JOINT PLANNING COMMITTEE.

APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited for the position of Senior Planning Assistant (Male or Female), at a salary in accordance with Grade IV of the National Scale of Salaries, A.P.T. Division, commencing at £420 per annum and rising by annual increments of £15 to £465 per annum, plus cost-of-living bonus (at present £59 16s.), together with a travelling allowance, in accordance with the Nottinghamshire County Council's scale.

Applicants must have had experience in the preparation of planning proposals for urban and rural areas, the carrying out of Regional Planning Surveys and Interim Development control. Preference will be given to those applicants who are Associate Members of the Town Planning Institute, or hold a recognized qualification in Town and Country Planning.

The appointment will be subject to one 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 age, training, experience, qualifications and present occupation, accompanied by not more than three testimonials, should be sent in appropriately addressed envelopes to J. H. Barratt, Esq., M.T.P.I., Chief Planning Officer, Regional Planning Office, 76, West Gate, Mansfield, Notts, not later than 31st December, 1946.

Applications from members of H.M. Forces are invited for this appointment.

A. C. SHEPHERD,

Clerk to the Joint Planning Committee.

Carr Bank, Mansfield, Notts. 975

CITY AND COUNTY OF NEWCASTLE-UPON-TYNE EDUCATION COMMITTEE.

Applications are invited for the following appointments, on the established staff of the Education Architect's Sub-department:—

(a) ONE ARCHITECTURAL ASSISTANT (Grade III). Salary £300-£435 per annum.

(b) THREE ARCHITECTURAL ASSISTANTS (Grade I). Salary £330-£375 per annum.

The National Conditions of Service (including cost-of-living bonus, at present £59 16s. per annum) will apply to each appointment.

Particulars of these appointments and form of application may be obtained from the undersigned, to whom applications must be delivered not later than 21st December, 1946.

THOS. WALLING,

Director of Education.

Education Office, Northumberland Road, Newcastle-upon-Tyne, 1. 978

BOROUGH OF ROYAL LEAMINGTON SPA.
DEPARTMENT OF DIRECTOR OF HOUSING.
APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the above appointment, at a basic salary of £396, rising by annual increments of £15 to £435, plus cost-of-living bonus, at present approximately £60 per annum. Living accommodation may be made available to the successful applicant if required.

The appointment will be on the unestablished staff of the Corporation, terminable by one calendar month's notice on either side.

Candidates must be qualified Architects, and should have had a thorough training in design and construction, and be experienced in the preparation of sketch plans, working drawings and specifications, particularly in relation to flats, housing estates, and buildings related thereto.

Applications must be made on the appropriate forms, which can be obtained at the address given below, and must be returned, together with not more than three testimonials, before 12 noon on Saturday, the 14th December, 1946, endorsed "Assistant Architect."

H. FEDESKI, A.R.I.B.A., Dip.T.P.,
A.M.T.P.I.,
Director of Housing.

Town Hall Annex, 3, Regent Grove,
Leamington Spa.
21st November, 1946. 951

BOROUGH OF HARROGATE.
SENIOR PLANNING ASSISTANT.

Applications are invited for the appointment of Senior Planning Assistant, in the Borough Engineer's Department, at a salary in accordance with the National Scale of Salaries, A.P.T., Grade IV, commencing at £420, and rising by annual increments of £15 to a maximum of £465 per annum, plus cost-of-living bonus.

Applicants should be Associate Members of the Town Planning Institute, and have had experience in the preparation and administration of Statutory Planning Schemes and the control of interim development. Preference will be given to applicants who possess also a qualification in engineering and/or architecture.

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

Applications, stating age, qualifications, and previous experience, together with copies of two recent testimonials, and the name of one person for reference, should be submitted in envelopes endorsed "Senior Planning Assistant," to reach the Borough Engineer, Borough Engineer's Department, Municipal Offices, Harrogate, not later than Friday, the 13th December, 1946.

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

Candidates, when making application, must disclose in writing whether to their knowledge they are related to any member of, or the holder of, any senior office under the Council.

J. M. DODDS,
Town Clerk.

Town Clerk's Office, Municipal Offices,
Harrogate.
November 20, 1946. 950

LONDON COUNTY COUNCIL.
CLERKS OF WORKS.

Applications are invited for positions of Clerks of Works (Class II), in the Architect's Department, to supervise constructional, maintenance, and repair works at the Council's schools, hospitals, and other buildings. There may also be shortly a few Class I positions. Rates of pay (according to qualifications and experience) are: Class I, £360-£400 a year (basic), plus cost-of-living addition, at present £78-£90 a year; Class II, up to £356 a week, plus cost-of-living addition, at present £30s. a week.

Successful candidates, under 55 years of age, will be subject to the Council's Superannuation and Provident Fund, but will be temporary in the first instance.

Other things being equal, preference will be given to persons registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men will also receive special consideration.

Applications (enclosing stamped addressed envelope) to be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application.

Canvassing disqualifies. 955

BOROUGH OF HEDDINGTON AND WALLINGTON.

CHIEF ENGINEERING ASSISTANT AND ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments (permanent except where otherwise stated):—

(1) Chief Engineering Assistant. Salary in accordance with A.P.T., Grade V, of the National Scales (£460-£515-£2510), plus London Weighting and bonus. The post ranks next after the Deputy Borough Engineer, and applicants should hold the qualifications of A.M.I.C.E. and the Testamur of the Institute of Municipal and County Engineers. Experience is required in general municipal engineering works, and in the administration and organization of a drawing office.

(2) Architectural Assistants. One permanent and one temporary appointment, both at salary in accordance with A.P.T., Grade IV, of the National Scales (£420-£465-£465), plus London Weighting and bonus. Applicants should hold

the qualification of the final examination of R.I.B.A. or its equivalent. Experience is required in municipal housing schemes, flats, adaptations, estimating, and supervision of works.

In all the above cases London Weighting is £20 a year and bonus, at present £59 16s. a year. All the appointments are subject to the provisions of the National Scheme, and to one month's notice on either side.

Forms of application, which make provision for supplying the names of two referees, may be obtained from me (applicants must make clear the appointment in which they are interested), and on completion should be sent in envelopes endorsed with the title of the appointment, to reach me not later than Tuesday, 17th December, 1946.

Canvassing, directly or indirectly, will disqualify.

C. PETER CLARKE,
Town Clerk.

Town Hall, Wallington, Surrey.
25th November, 1946. 963

CITY OF WESTMINSTER.
BUILDING SURVEYOR (HOUSING MAINTENANCE STAFF).

Westminster City Council invites applications for the appointment of Building Surveyor (permanent staff), at a salary scale of £480-£530 (Grade V of National scales), plus cost-of-living bonus, at present £59 16s. per annum.

Applicants (not over 45 years of age) should preferably be Chartered Surveyors or Registered Architects, with local government experience; should have undertaken responsibility for maintenance repairs to flats and houses both by building contract and direct labour; and should be thoroughly competent in the preparation of specification, detailed estimates and reports, and in the supervision of maintenance works and improvements to buildings.

The appointment will be subject to a satisfactory medical report to the provisions of the National Schemes of Conditions of Service, the Council's Standing Orders, General Regulations and Superannuation Scheme. Canvassing will disqualify.

Applicants must state, in the order given, full name and address, age, war service, qualifications by examination, present appointment—how long held and salary, previous appointments, particulars of experience, date on which appointment could be taken up, and whether to their knowledge they are related to any member or Chief Officer of the Council. Applications, accompanied by copies of three recent testimonials, should be sent in an envelope marked "Building Surveyor," so as to be received by the undersigned not later than 31st December, 1946.

PARKER MORRIS,
Town Clerk.

Westminster City Hall, Charing
Cross Road, W.C.2.
22nd November, 1946. 971

UNIVERSITY OF CAPE TOWN.

Applications are invited for THREE STUDIO MASTERS, in the School of Architecture; one of the three may be a Quantity Surveyor. Salary £550 offered to qualified architects, who have had some years of practical experience; there is also a temporary cost-of-living allowance of £75 for married men and £40 for single men. Studio Masters are under the direct supervision of the Professor of Architecture, and must undertake an average of 25 hours per week of teaching duties.

Applications should reach the High Commissioner for the Union of South Africa, South Africa House, Trafalgar Square, W.C.2 (from whom forms of application and a memorandum giving further particulars can be obtained) by the 31st December, 1946. 958

METROPOLITAN BOROUGH OF WANDSWORTH.

APPOINTMENT OF BOROUGH ARCHITECT.

Applications are invited for the appointment of Borough Architect, at a salary of £1,250 per annum, rising by annual increments of £50 to a maximum of £1,500 per annum, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants must be Fellows or Associates of the Royal Institute of British Architects, and have had experience in housing and the general architectural work of a Local Authority. The appointment will be subject to the Council's Superannuation Acts, and the successful applicant will be required to pass a medical examination. Forms of application may be obtained from and completed applications must be returned to the Town Clerk, Municipal Buildings, Wandsworth, S.W.18, not later than Monday, 23rd December, 1946.

By Order.

R. H. JERMAN,
Town Clerk.

Municipal Buildings, Wandsworth, S.W.18.
20th November, 1946. 956

LONDON COUNTY COUNCIL.
VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:—

PLANNING OFFICER (Grade III). Up to £500 a year (basic).

TECHNICAL ASSISTANT. Up to £420 a year (basic).

Commencing rate of pay will be according to qualifications and experience. Cost-of-living

addition, at present £78 to £90 a year (men), and £63 to £84 (women), are payable in addition.

There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.

Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for form of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies. 983

Almended Advertisement.

PLYMOUTH REGIONAL JOINT PLANNING COMMITTEE.

APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited for the position of Senior Planning Assistant. The salary will be in accordance with Grade VI in the Administrative, Professional and Technical Division, with a commencing salary of £535, rising to £600 per annum, plus bonus (at present £59 16s.), together with a travelling allowance in accordance with the Devon County Council Scale.

Applicants should have passed the final examination of the Town Planning Institute, and have had practical experience in the preparation of planning schemes with a local authority or Joint Committee, and be familiar with Interim Development control, and preference will be given to candidates who possess additional qualifications.

The person appointed will be required to devote the whole of his time to the services of the Joint Committee, and the appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications in writing, stating age, qualifications and experience, accompanied by copies of two recent testimonials, should be forwarded to reach the undersigned not later than the 21st December, 1946.

PERCY T. LOOSEMORE.

For Joint Clerks.
Council Offices, Plympton, S. Devon.
22nd November, 1946. 969

KINGSTON-UPON-HULL EDUCATION COMMITTEE.

COLLEGE OF ART AND CRAFTS.

Principal: S. I. HEMMING, A.R.C.A. (Lond.).
Required to commence duty as soon as possible.
a. Full-time LECTURER AND STUDIO INSTRUCTOR. Applicants should be members of the R.I.B.A., preferably with the degree or diploma of a recognized School of Architecture. Previous experience in lecturing on architectural subjects, or professional practical experience, is desirable.

Salary in accordance with the Burnham Scale. In fixing the initial salary, account will be taken of time previously spent in teaching and in professional practice.

Particulars of appointment, and application forms (which must be returned within fourteen days of the date of this issue), can be obtained on receipt of a stamped, addressed, foolscap envelope, from the Director of Education, Education Offices, Guildhall, Kingston-upon-Hull. 965

THE CARDIGANSHIRE COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

Applications are invited from Registered Architects for the whole-time permanent appointment of a Deputy County Architect, at a salary of £700 per annum, rising by annual increments of £50 to £800 per annum, plus bonus and travelling allowance on the Council's scale.

Applicants must possess the qualification of A.R.I.B.A. by examination, with special knowledge of the designing and construction of modern school buildings.

The appointment will be terminable by three months' notice on either side, and will be subject to the designing and provisions of the Local Government Superannuation Act, 1937, and to a medical examination.

Applications, stating age, qualifications, and experience, accompanied by copies of two recent testimonials, endorsed "Deputy Architect," must reach the undersigned not later than 21st December, 1946.

IVOR EVANS,
Clerk to the County Council.

County Offices, Aberystwyth.
November, 1946. 966

QUEENSLAND.

Applications are invited from qualified and experienced ARCHITECTS for appointment to the Department of Public Works in Queensland. Salaries range from £425 to £625 (Australian), according to qualifications and experience, plus basic wage adjustment of £34 10s. per annum. Free steamer passages for appointees and families granted, provided an undertaking is given to remain in the Public Service of Queensland for a period of at least three years.

Full particulars and form of application may be obtained from the Agent-General for Queensland, Queensland Government Offices, 409, Strand, London, W.C.2, with whom applications must be lodged before 24th December, 1946. 989

CITY OF ST. ALBANS.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

TEMPORARY ARCHITECTURAL ASSISTANT.

Applications are invited for the temporary post of Architectural Assistant, in the above Department, at a salary of £400 per annum, plus current cost-of-living bonus (£59 16s. per annum). Applicants must possess an architectural qualification, and have had experience in the preparation of plans, working drawings, specifications and layouts of modern municipal housing estates, including surveying and levelling. It is anticipated that the post will last for at least two years, subject to satisfactory service. The appointment is subject to one month's notice on either side.

Applications, in writing, stating age and experience, together with copies of two recent testimonials (non-returnable), must be received by the undersigned, not later than the 21st December, 1946.

S. H. E. CRANE.

Town Clerk.

Town Clerk's Office, 38, St. Peter's Street, St. Albans. 990

BURNLEY EDUCATION COMMITTEE.

MUNICIPAL SCHOOL OF ART.

Applications are invited for the position of INSTRUCTOR IN ARCHITECTURE. The classes are new, and include full-time students in Architecture, and Arted Pupils taking the R.I.B.A. examination. There is an excellent opportunity for an enthusiastic man to develop a good School of Architecture. The Building Construction is taken in conjunction with the Burnley Municipal College.

Burnham Scale. For forms of application, apply, enclosing stamped addressed foolscap envelope, to the Director of Education, Education Offices, Burnley, by whom completed applications must be received not later than Monday, 16th December, 1946.

C. V. THORNLEY.

Town Clerk.

26th November, 1946. 995

WESTMORLAND COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT ARCHITECT. Salary £420-£510 (Grade V).

A cost-of-living bonus (at present £59 16s.) will be paid in addition to the above salary. Candidates must be Registered Architects, preferably A.R.I.B.A., with good experience of modern School, Police, and Public Health work, and the organization and supervision of Building Contracts.

The appointment will be on the permanent staff of the County Council (terminable by one month's notice on either side), and subject to superannuation and successful medical examination. Applications, endorsed "Senior Assistant Architect," giving full particulars as to age, education, etc., qualifications and experience (and/or war service), and accompanied by copies of two recent testimonials, must be received by the undersigned not later than Friday, 27th December, 1946.

H. B. GREENWOOD, M.A., LL.B.,

Clerk to the County Council.

County Hall, Kendal, Westmorland. 997

COUNTY BOROUGH OF EAST HAM.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from qualified persons for the temporary 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 this post may be subject to revision in the near future.

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

Applications, on the form obtainable from the undersigned, must be delivered to the Town Clerk,

together with copies of three recent testimonials, not later than Monday, 30th December, 1946.

Canvassing in any form will disqualify.

H. A. EDWARDS,

Town Clerk.

Town Hall, East Ham, E.6.

6th December, 1946. 988

ANGLESEY JOINT PLANNING COMMITTEE.

JUNIOR PLANNING ASSISTANT.

Applications are invited for the permanent appointment of Junior Planning Assistant, in the County Planning Department. Salary, Grade I, A.P.T. Division, £330-£375 per annum, plus cost-of-living bonus, at present £59 16s. Applicants must have experience in the preparation of planning maps, Ordnance Map revision, land surveys, and other work associated with a planning office. Architectural experience will be an added advantage.

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

The appointment is terminable by one month's notice on either side.

Applications, to be accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than Saturday, 21st December, 1946.

WILLIAM JONES,

Clerk to the Joint Committee.

Shire Hall, Llangefni, Anglesey. 982

COUNTY BOROUGH OF DONCASTER

EDUCATION COMMITTEE.

SCHOOL ARCHITECT'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited from men of suitable qualifications and experience for appointment as Architectural Assistant. Preference will be given to candidates who are Associates of the Royal Institute of British Architects.

Salary in accordance with Grade A.P.T. IV of the National Joint Council Scales (£420×£15-£465), plus bonus (at present £59 16s. 6d.).

The post will be superannuable. Conditions of appointment, obtainable from the undersigned on receipt of stamped addressed foolscap envelopes. Applications should be sent as soon as possible.

V. H. HOSKIN,

Chief Education Officer.

26th November, 1946. 976

SPALDING RURAL DISTRICT COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a full-time TECHNICAL ASSISTANT, in the Architect's Department, at a commencing salary of £345 per annum, plus cost-of-living bonus (at present £59 16s.), rising on 1st April, 1947, to £390 per annum, plus bonus, when the appointment and salary will be in accordance with Grade III of the A.P.T. Division of the National Joint Council Scale, rising to a maximum of £435, plus bonus.

Candidates should have a sound and practical knowledge of architectural and quantity surveying work, and will be required to prepare Bills of Quantities, Estimates, valuations and settlement of accounts in connection with the Council's Housing schemes and to work under the direction of the Council's Architect and Building Surveyor.

The appointment will be subject to the Local Government Superannuation Act, 1937.

Applications stating age, qualifications, and experience, and earliest date on which duties could be commenced if appointed, together with copies of two recent testimonials, must reach the undersigned not later than 17th December, 1946.

L. FENNELL,

Clerk to the Council.

The Crescent, Spalding, Lincs. 985

EAST SUFFOLK COUNTY COUNCIL.

APPOINTMENT OF ASSISTANT

ARCHITECTS.

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

THREE ASSISTANT ARCHITECTS. On A.P.T., Grades III and IV combined, at a salary of £390 by £15 to £465 per annum, plus the present cost-of-living bonus. The commencing salary in the grade will be fixed according to the qualification and experience of the candidates.

Applicants must be Registered Architects, preferably members of the Royal Institute of British Architects, with previous experience in the service of a Local Authority. They must be quick and accurate draughtsmen, fully conversant with the preparation of 1/4th scale, half inch, and full size details for Schools, or other buildings dealt with by a Local Authority, and have a sound knowledge of design, construction, and specifications.

The successful candidates for the appointments will be required to pass a medical examination. Appointments are subject to one month's notice on either side, and the provisions of the National Conditions of Service and Local Government Superannuation Act, 1937.

Applications, stating age, full details of previous experience and qualifications, accompanied by copies of not more than three recent testimonials, must be delivered to E. J. Symcox, F.R.I.B.A., County Architect, County Hall,

Ipswich, not later than ten days after the appearance of this advertisement.

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

CECIL OAKES,

Clerk of the Council.

County Hall, Ipswich. 984

Tenders

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

RURAL DISTRICT COUNCIL OF

GLOUCESTER.

ERECTION OF 12 HOUSES AT NEWNHAM.

Tenders are invited for the erection of the houses above-mentioned. Applications for Forms of Tender and Bills of Quantities must be made to the Council's Architect, Mr. C. D. Carus-Wilson, M.C., F.R.I.B.A., Hardwicke, Glos., not later than 13th December, 1946, accompanied by a deposit of £3 3s. by cheque, payable to The Rural District Council of Gloucester, which sum will be refunded on receipt of a bona fide tender. 1/4 in. scale plans and 1/500 site plan will be sent on application; 1 in. scale and full size Details, and Conditions of Contract can be seen by appointment with the Architect.

The Council do not bind themselves to accept the lowest or any tender.

W. J. KNIGHT,

Clerk to the Council,

Berkeley Chambers, Gloucester.

23rd November, 1946. 967

BIRMINGHAM CITY TRANSPORT.

TO BUILDING CONTRACTORS.

NEW MOTOR OMNIBUS GARAGE, QUINTON. The Birmingham City Transport Department invite Tenders for the Building Work in connection with the erection of a new Motor Omnibus Garage at Quinton.

Application for particulars and Bills of Quantities must be made before 17th December, 1946, to the General Manager, Birmingham City Transport Department, The Council House, Congreve Street, Birmingham, 3, accompanied by a deposit of five guineas, which will be returned on receipt by the appointed time of a bona fide Tender if not subsequently withdrawn. Cheques must be made payable to the Birmingham City Transport.

General Conditions of Contract (which include the Corporation's usual Fair Wages and Conditions of Labour Clause), specifications and drawings, may be inspected at the Office of the Architects, Messrs. Gateley & Parsons, of 2, Dover Street, Coventry, or the Offices of the Quantity Surveyors, Messrs. Silk & Frazier, 35, Portland Road, Edgbaston, Birmingham, on and after 10th December, upon production of the Bills of Quantities or by appointment.

Tenders must be enclosed in the official endorsed envelope provided for the purpose, and such envelope must be sealed and delivered to the Town Clerk, The Council House, Birmingham, 1, not later than Thursday, 9th January, 1947, when they will be opened.

Tenders received after that time will not be considered.

The Committee does not bind itself to accept the lowest or any tender.

A. C. BAKER,

General Manager.

Council House, Birmingham. 996

Architectural Appointments Vacant

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

ARCHITECTURAL DRAUGHTSMAN required, Maldenhead; capable of working up from sketches, preparing details, surveys, etc. Send details of experience and salary required to Box 673.

JUNIOR DRAUGHTSMAN required in Maldenhead Architect's Office. Send particulars of experience and salary required to Box 672.

WANTED. Immediately, for Architects' office in West End of London, capable and experienced Architectural Assistant, on housing and general work; interesting and progressive position, with good salary; five-day week. Write fully to Box 889.

ARCHITECTURAL ASSISTANT required by Tottenham and District Gas Company; age 25-40; preference will be given to applicants who have passed the Intermediate examination of the R.I.B.A. or the equivalent; commencing salary approximately £400 per annum, inclusive of war additions; the person appointed will be entitled to the benefit of Co-partnership and the Pension Fund. Apply by letter, giving age and full particulars of experience and qualifications, to PERSONNEL OFFICERS, 658, Lordship Lane, Wood Green, N.22. 961

ARCHITECT'S ASSISTANT wanted for design and construction of theatres and general work; must be capable and experienced in design, details and specifications; to work under company's architect in Central London and start immediately; salary according to experience and qualifications, with good prospects for permanent responsible position. Write fully, stating age, experience, and salary required, to Box 888.

ARCHITECTURAL SENIOR ASSISTANT required, preferably qualified, with experience of Housing and Factories, in South Shields office; salary £500 to £600, according to qualifications. Box 907.

WANTED.—Competent Architectural Draughtsman; capable of producing accurate working drawings; R.I.B.A. qualifications not necessary, but experience on working drawings essential; write, stating experience and salary required. Edward Armstrong, F.R.I.B.A., 19, Manchester Square, W.1. 952

DRAUGHTSMAN as Assistant to Architectural Department; experienced in building construction, surveying, and levelling. Apply Austin Motor Co., Ltd., Birmingham. 946

HENRY C. SMART & PARTNERS, Architects, 120, Moorgate, E.C.2, require Assistant; working drawings, details, surveys, etc. Write, stating age, experience, and salary required. 913

QUALIFIED QUANTITY SURVEYOR required for permanent position in London Office; pre-war experience in taking-off essential. State experience and salary required to Box 757.

CORNWALL—Senior and Junior Assistants required; ex-Service men preferred; state age, family, etc.; experience, service, and rank, and salary required. Box 958.

ARCHITECTURAL ASSISTANT wanted in Cardiff; salary up to £8 per week, according to qualifications. Box 960.

FIRM of West End Architects require the service of a Surveyor or an Assistant; used to handling war damage and maintenance repairs, including surveys, specifications, applications for licences, supervision of work, etc. Write, with full details, stating salary required, to J. Stanley Beard & Bennett, F./L.R.I.B.A., 101/3, Baker Street, London, W.1. 970

LONDON PASSENGER TRANSPORT BOARD—Applications are invited for appointments on the temporary staff of the Architect's Office as follows:—**ASSISTANT ARCHITECTS**, **ARCHITECTURAL ASSISTANTS**, **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 the Staff Officer (ER/E.408), 55, Broadway, Westminster, S.W.1. Applicants may also telephone ABBey 1234, Extension 194. 977

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 £74); 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 960.

SENIOR AND JUNIOR ARCHITECTURAL AND TOWN PLANNING ASSISTANTS required in busy office, Somerset; excellent prospects and progressive appointments; 5-day week. Full particulars of training, experience, etc., to Box 986.

ARCHITECTURAL ASSISTANT required by East Coast Brewery Company; experience in working drawings and surveys; experience in quantity surveying preferable, but not essential; good salary for suitable applicant; accommodation may be found. Reply, giving full details of experience, to Box 997.

ARCHITECTURAL ASSISTANT required for expanding country practice at Woodstock, Oxford; work includes domestic, rural district housing schemes, church work, and some industrial work; salary up to £6 per week offered, according to age and capabilities; good bus service to Oxford. Apply to Lionel P. R. Coote, A.R.I.B.A., No. 10, Wobley Terrace, Woodstock, Oxford. 991

TRACER wanted for Central London Drawing Office; willing to do small amount of shorthand and typing; salary according to experience; previous experience not essential. Reply Box 994.

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (young lady), neat draughtswoman, able to prepare drawings from sketches, details, etc., seeks progressive position in London office; 2 years' general D.O. experience; 3rd year Polytechnic student. Reply Box 186.

ARCHITECTURAL ASSISTANT (37) requires position; 18 years' experience; neat, accurate, and essentially quick draughtsman; large experience in multiple firms, shops, offices, factory buildings, estate lay-outs, roads and drainage; large experience in the War Damage Act in respect to reconstruction work, specifications, and dilapidations, also a wide experience in de-requitting of properties. Box 187.

ARCHITECTURAL ASSISTANT requires position with Architect in S.E. Kent; able to prepare 3 in., 2 in. working drawings; probationer R.I.B.A.; National Certificate Building Construction. Box 188.

ARCHITECT'S ASSISTANT, had over 12 years' experience in all classes of work, sound general drawing office practice, knowledge of quantities, specifications, estimating, surveying, supervision of works, R.I.B.A. final stage, requires progressive position. Box 189.

ARCHITECTURAL DRAUGHTSWOMAN (Student R.I.B.A.), previous office experience, desires position in small private practice or with firm of industrial designers; Manchester area. Box 190.

JUNIOR DRAUGHTSMAN requires post; drawing, estimating and surveying for prefabricated products. Box 191.

Other Appointments Vacant

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

LADY SECRETARY or CONFIDENTIAL CLERK (Male) required by Architects and Surveyors; shorthand-typing, simple book-keeping essential; excellent prospects for man or woman willing to work hard and take a live interest in a growing business; salary £4 to £5 per 5-day week to start, plus bonus. Townsend & Ransom, 96, Victoria Street, S.W.1. 973

SHORTHAND TYPIST required in City Chartered Surveyors' Office; 5-day week. Write, stating experience and salary required, to Box 961.

A. R.I.B.A., with own office in North Scotland, requires part-time work, requiring knowledge and experience of building in tropical countries. Box 962.

ENGINEER undertakes Sanitary Surveys and Prepares Designs for Water Services, Drainage and Disposal Systems for country house conversions, etc. Box 979.

Other Appointments Wanted

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

LAND SURVEYS for Housing Schemes and other projects carried out by expert, with own car and equipment. Box 829.

PERSPECTIVES and Sketch Plans prepared quickly in Architect's own office. Box 945.

Miscellaneous

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

A. J. BINNS, LTD., specialists in the supply and fixing of all types of fencing, tubular guard rail, factory partitions and gates. 99-107, St. Pauls Road, N.1. Canonbury 2061.

F. J. BAYNES, LTD., established over 100 years. Heating, Ventilating and Sanitary Engineers. 99/107, St. Paul's Road, N.1. Canonbury 2061-3.

"CAN I HELP YOU?" I have on my staff Architectural and Civil Engineering Draughtsmen, Building Estimating, Land, Measuring and Quantity Surveyors. Write C. F. Rumble, 29/31, Whitehall, S.W.1. Tel.: Whitehall 8514.

WANTED—One set of "Arts Et Matiers Graphiques." Please reply to Box 5.

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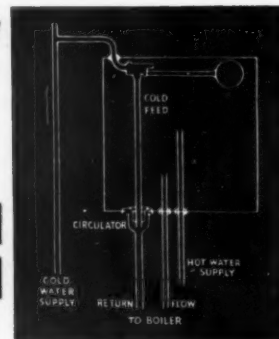
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