

# THE ARCHITECTS' JOURNAL

STACK



## standard contents

every issue does not necessarily contain all these contents, but they are the regular features which continually recur.

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No. 2827]

[Vol. 109

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★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to I one week, I to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill, Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 4, St. James' Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 15.	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
AScW	Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1.	
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Grosvenor 4761
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706	Welbeck 5721
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 8641/6
BCC	British Colour Council. 13, Portman Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 43, George Street, Croydon.	Croydon 5452
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. Glasgow Central 2891	
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon. Newport 3111	
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congr's Internationaux d'Architecture Moderne. Doldrecht, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.	Sloane 4280
CUJC	Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.1.	
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 1534
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Whitehall 0540
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Victoria 9040
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Temple Bar 7565
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Regent 4448
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Waterloo 1951
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 9606
FC	Forestry Commission. 25, Savile Row, W.1.	Whitehall 6711
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham.	Sloane 1002
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ilkeston 623
FMB	Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1.	Ulverston 201
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Chancery 7583
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Langham 4041
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2837
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Sloane 2844
IAAS	Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1.	Whitehall 2881
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Sloane 3158
		Whitehall 4577

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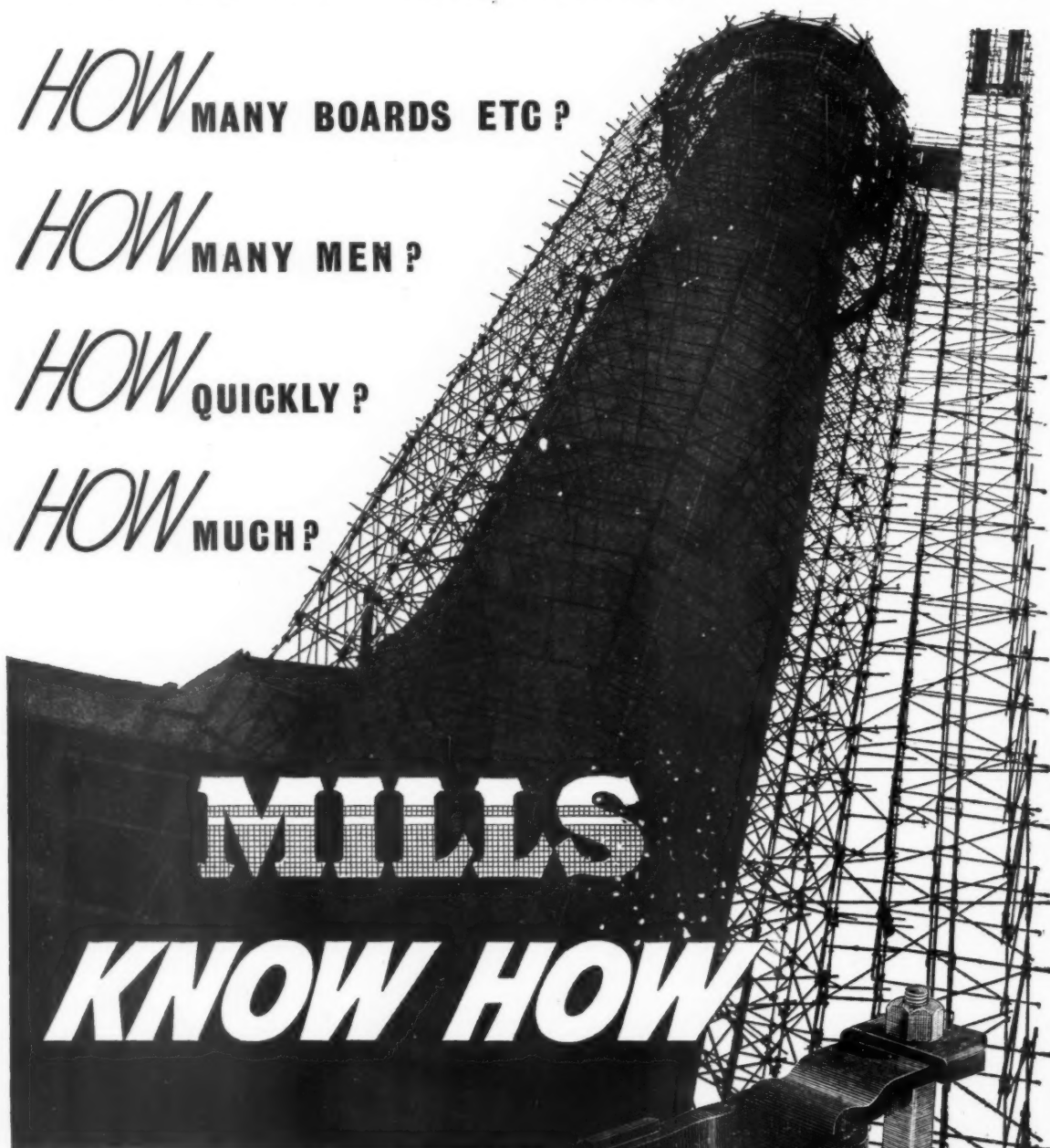
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*HOW* MANY BOARDS ETC?

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*HOW* QUICKLY?

*HOW* MUCH?



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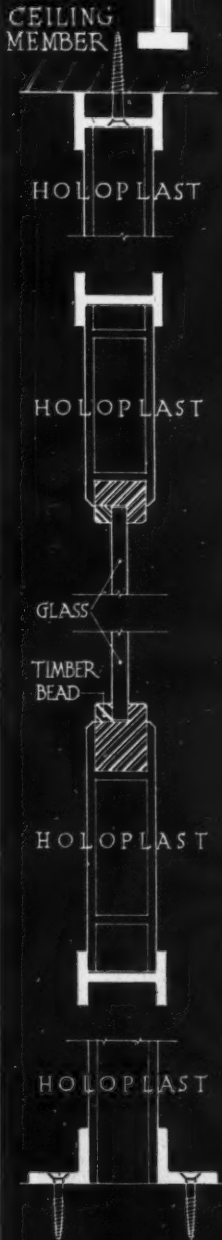
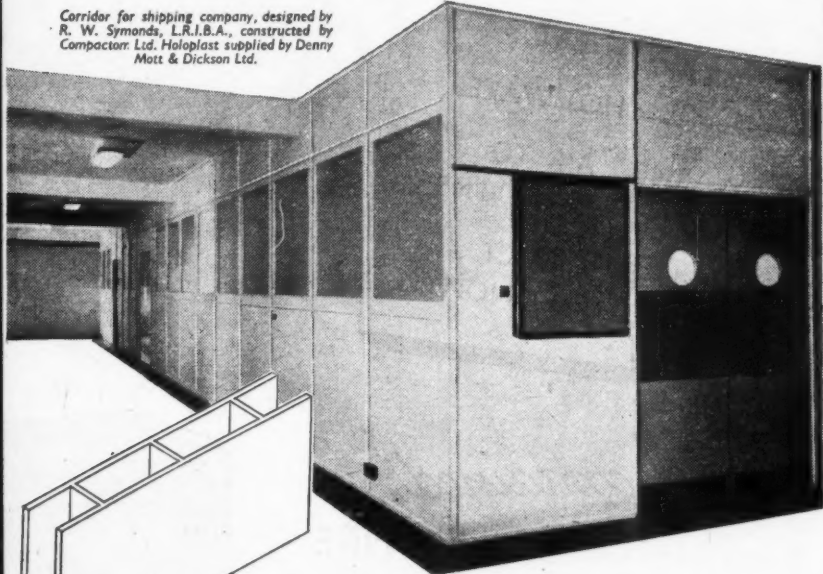




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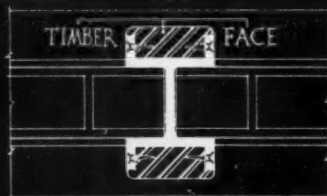


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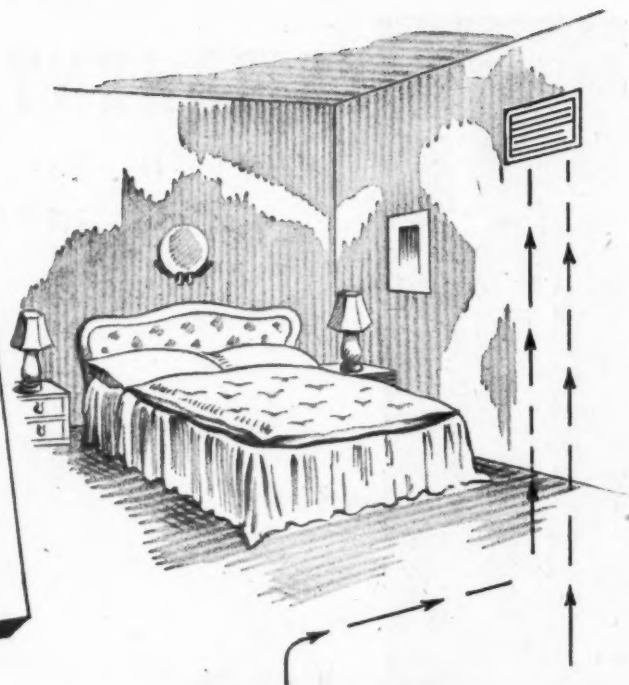
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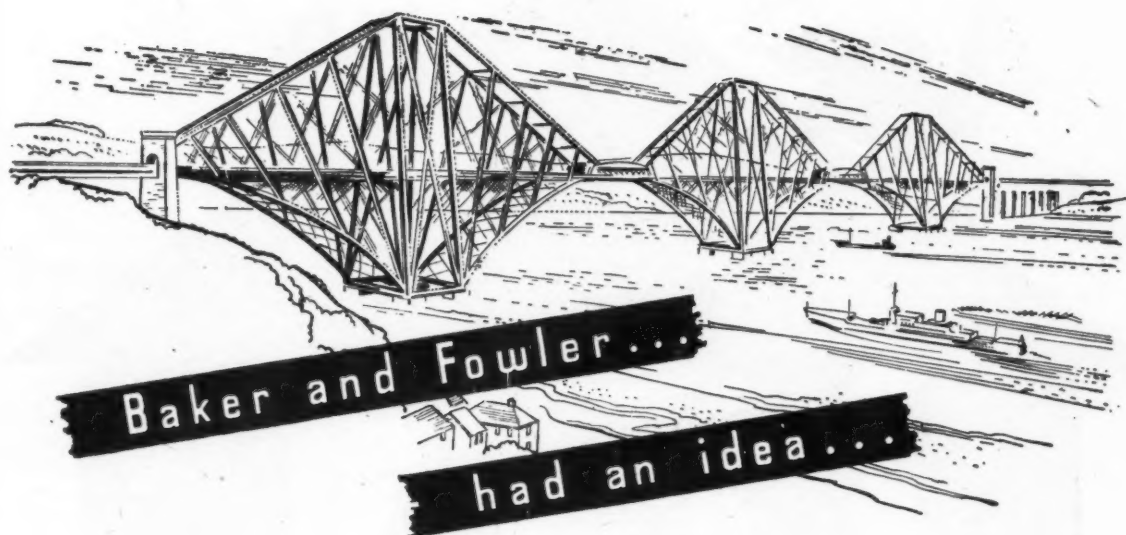
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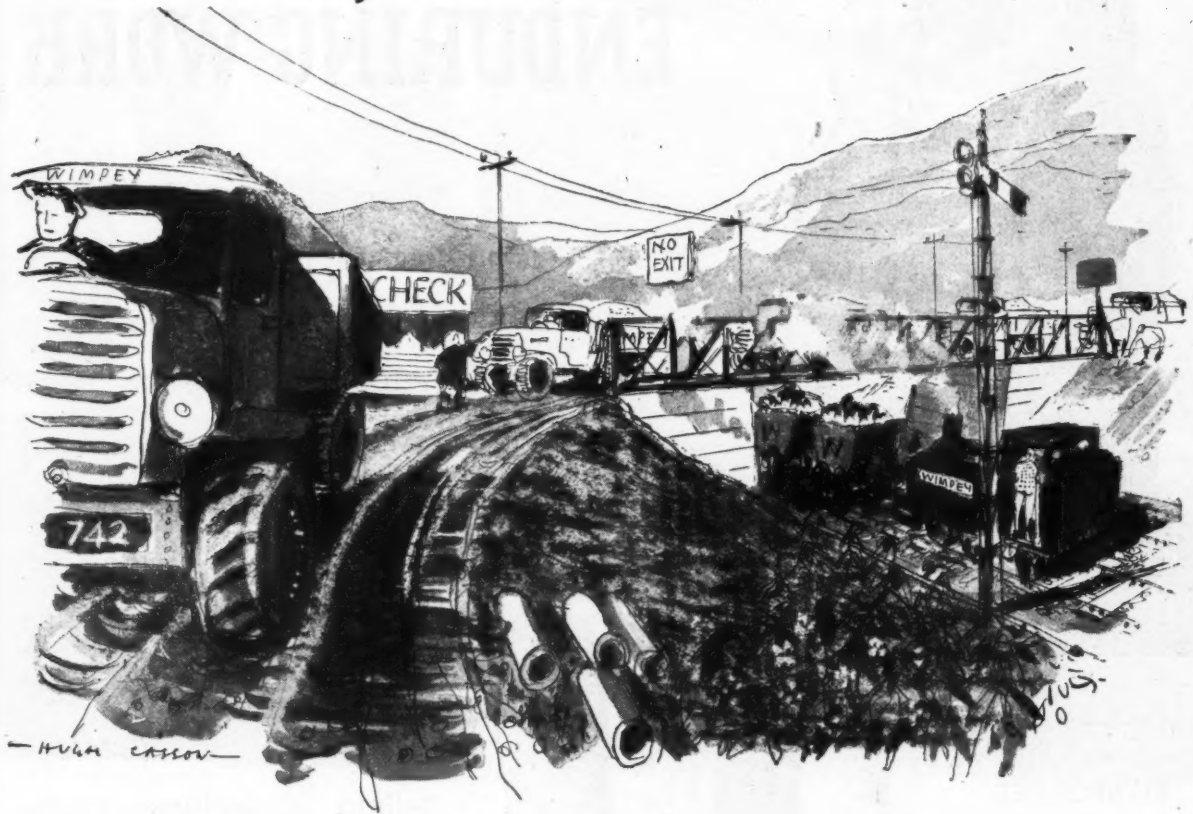


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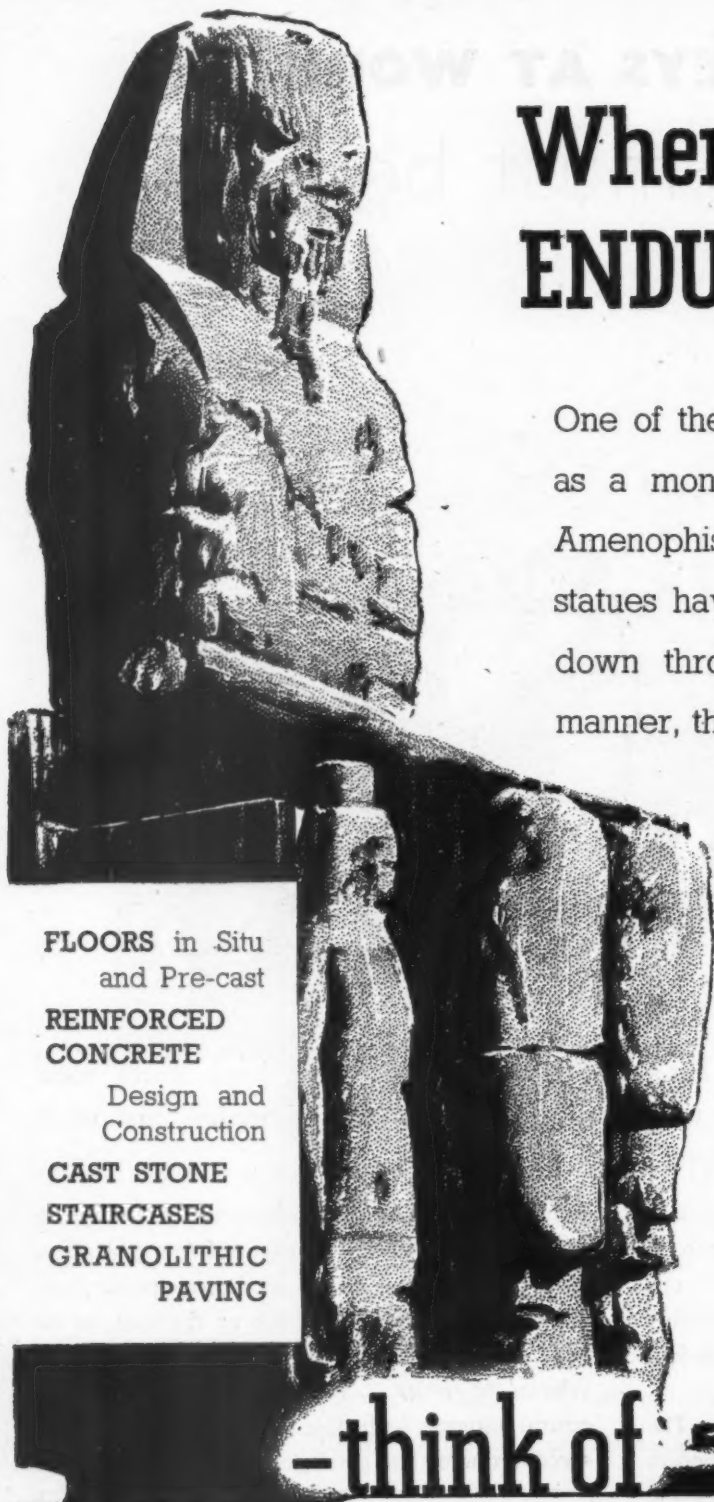
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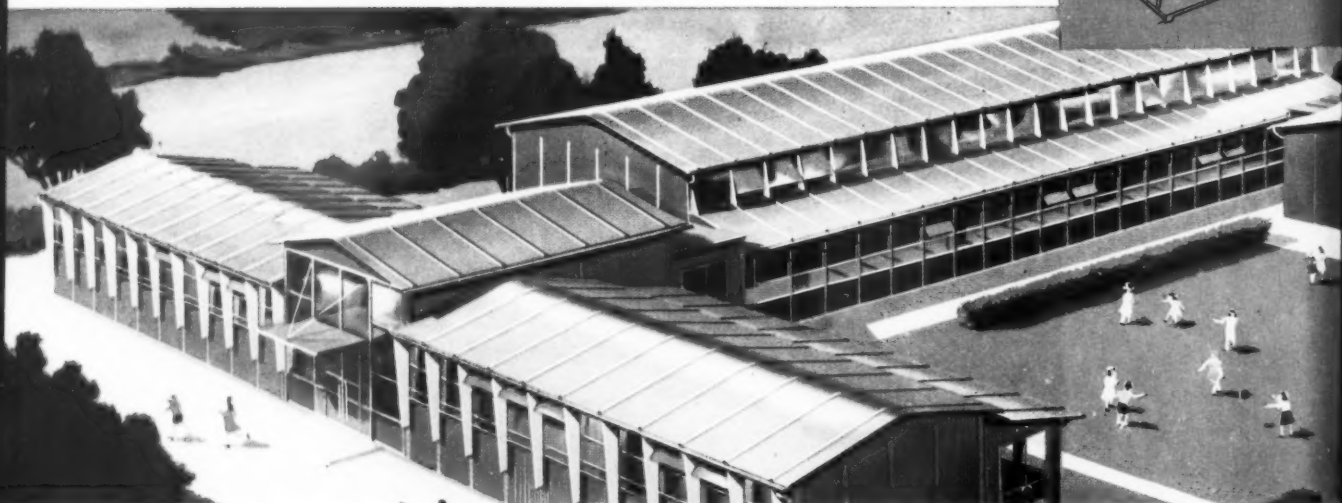
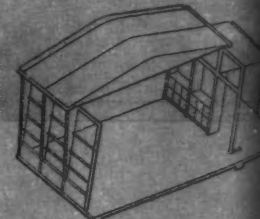
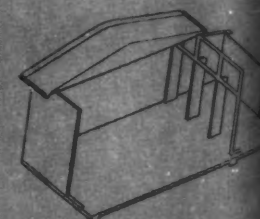
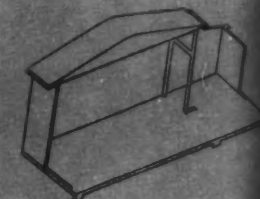
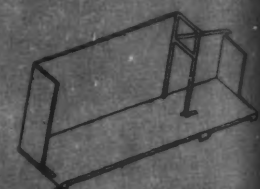
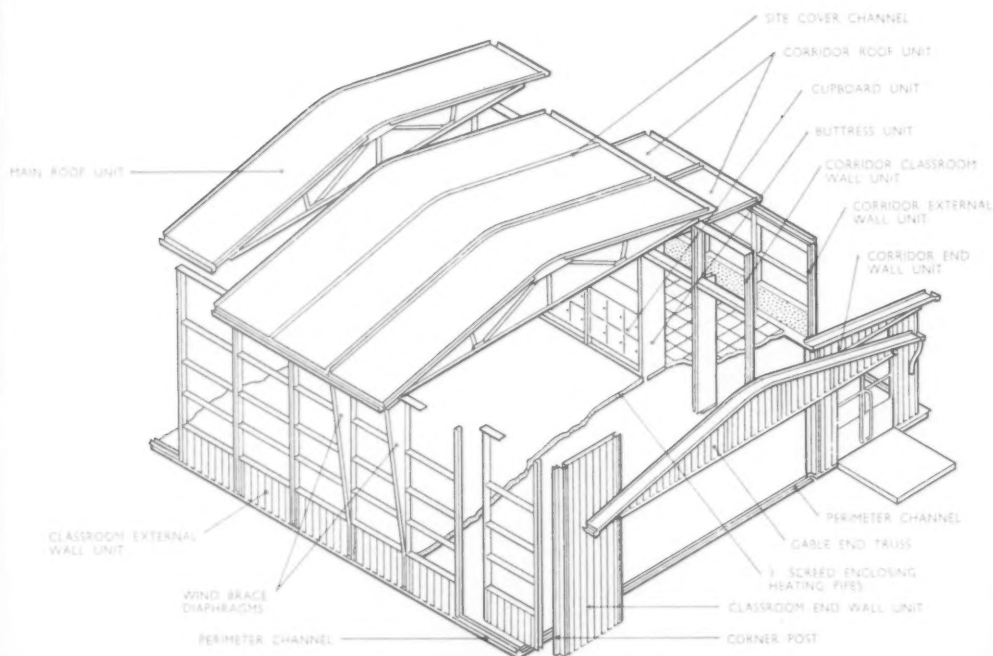
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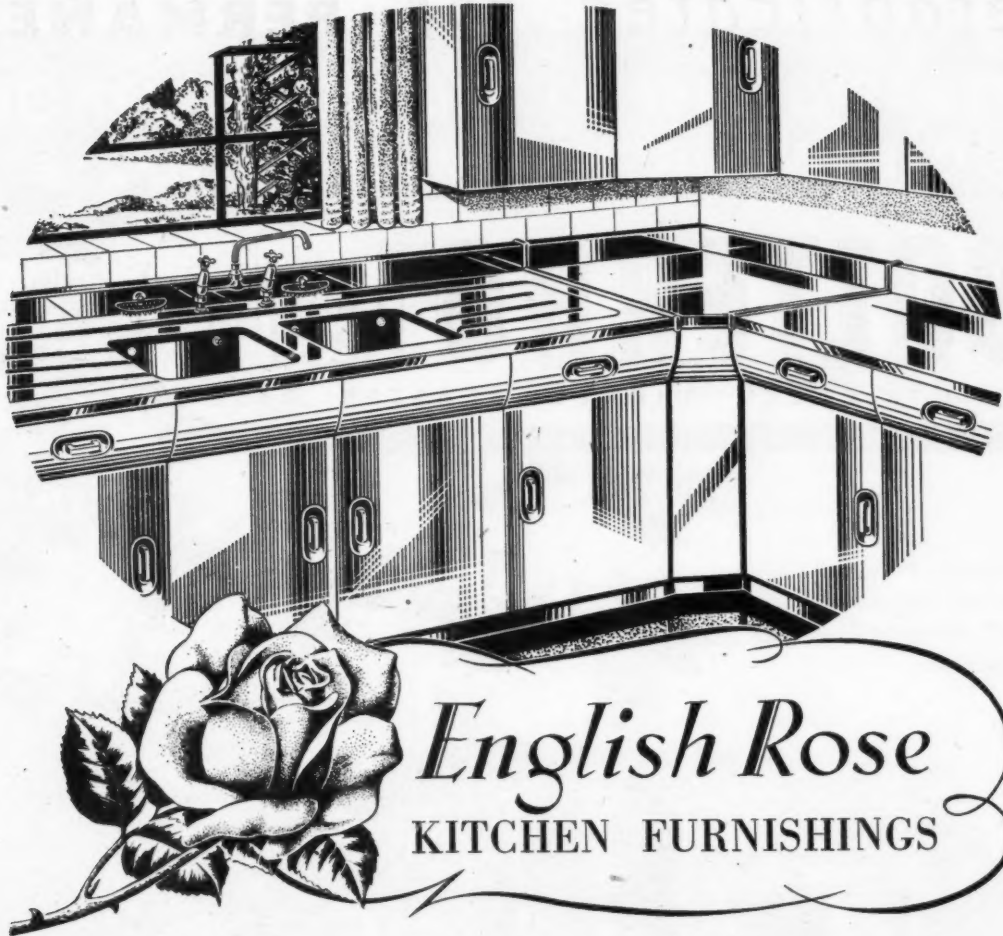




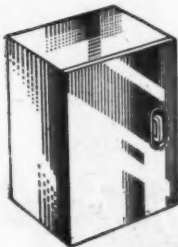
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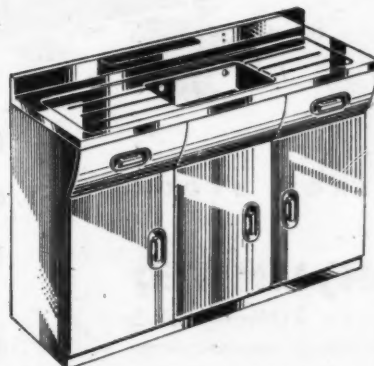
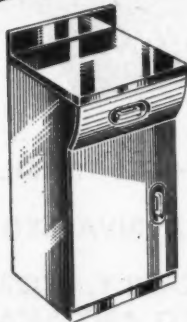
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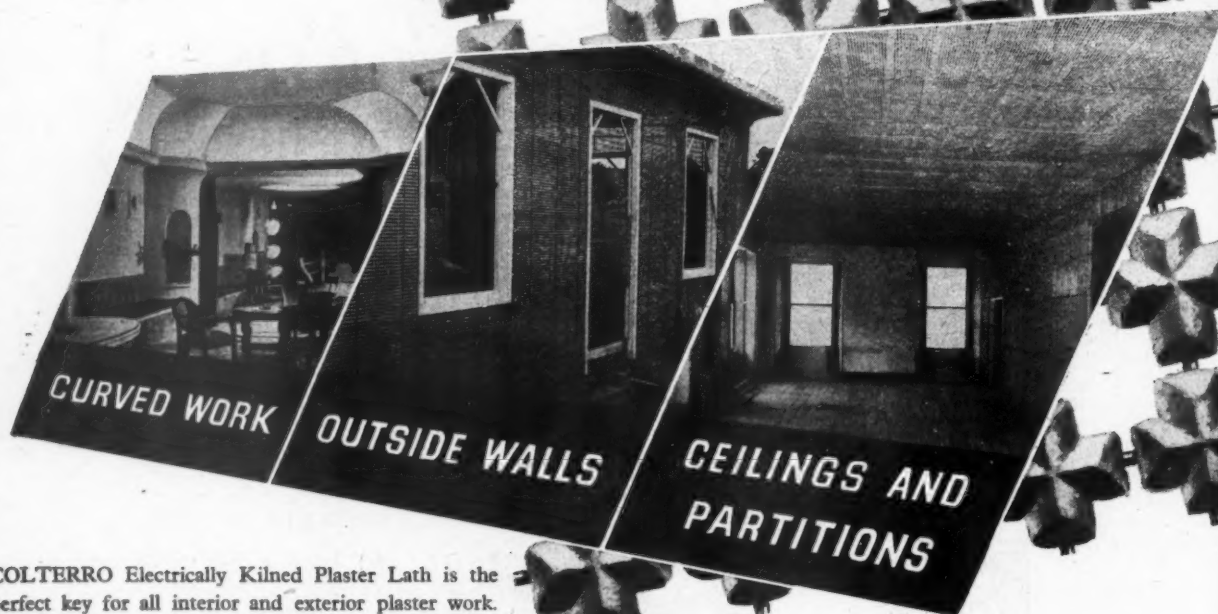
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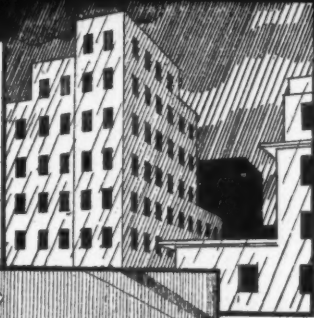
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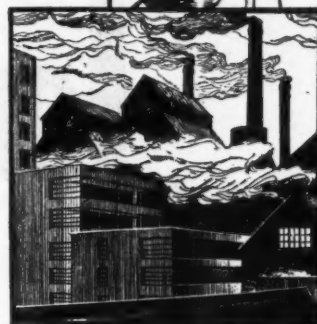
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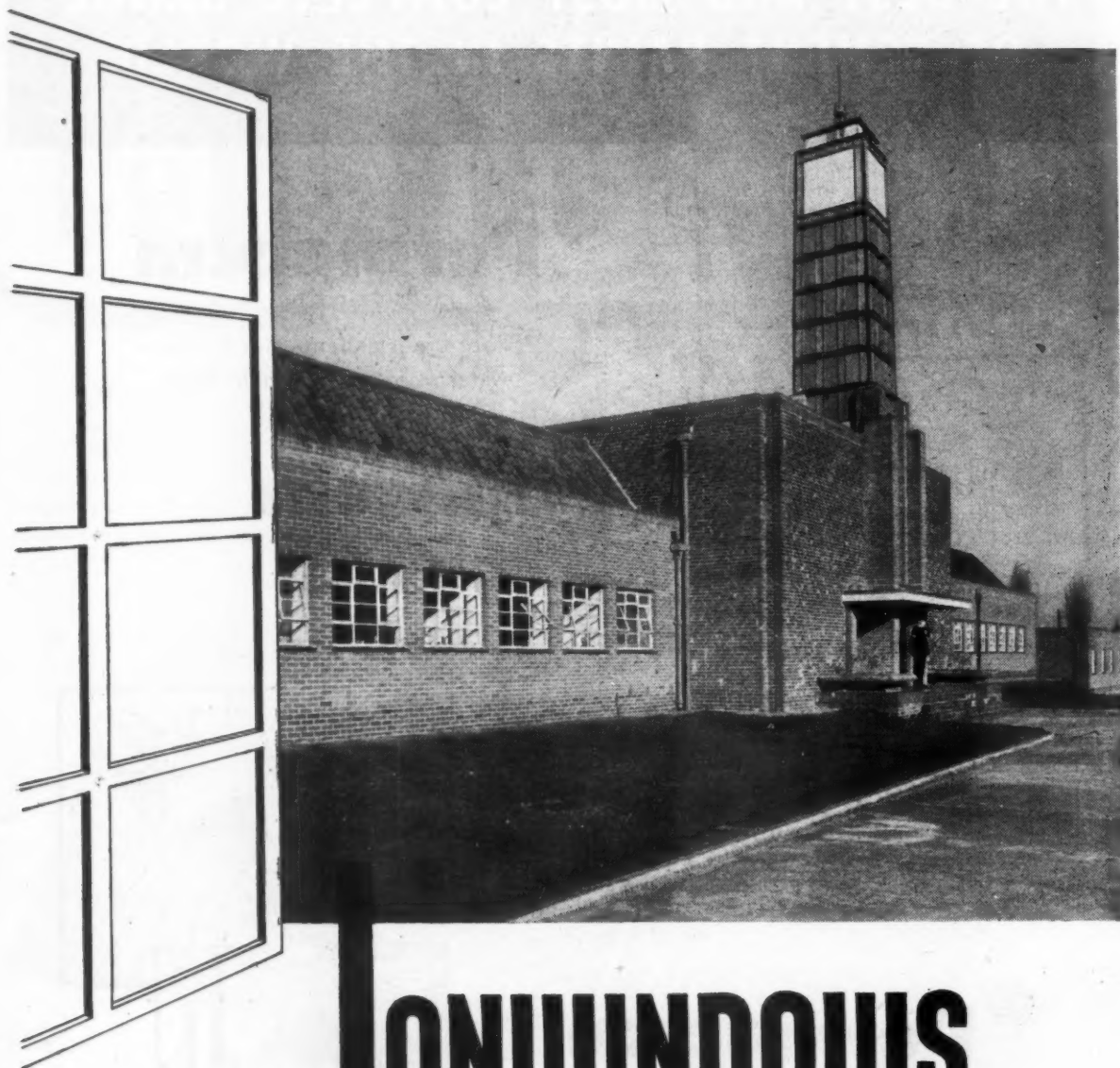
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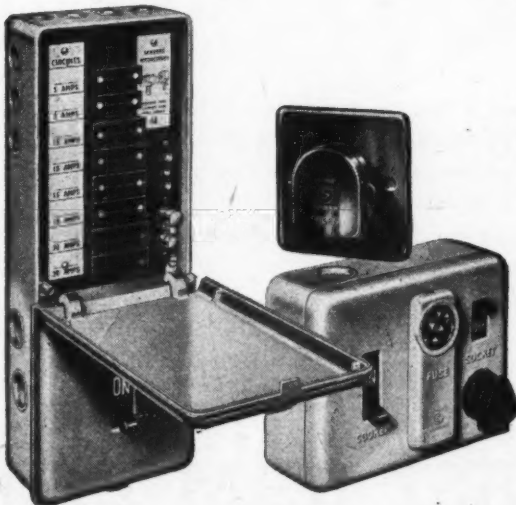
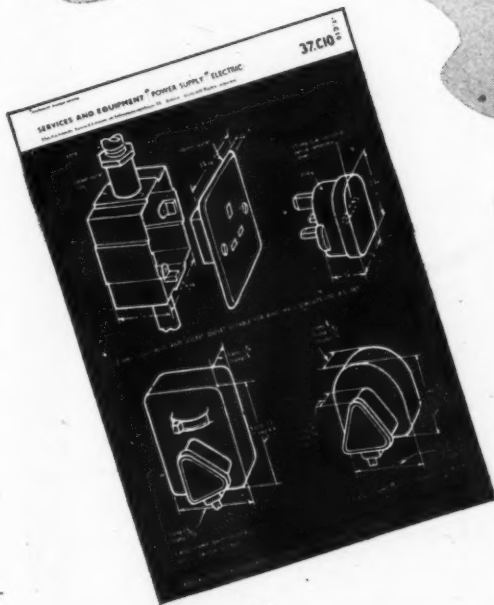
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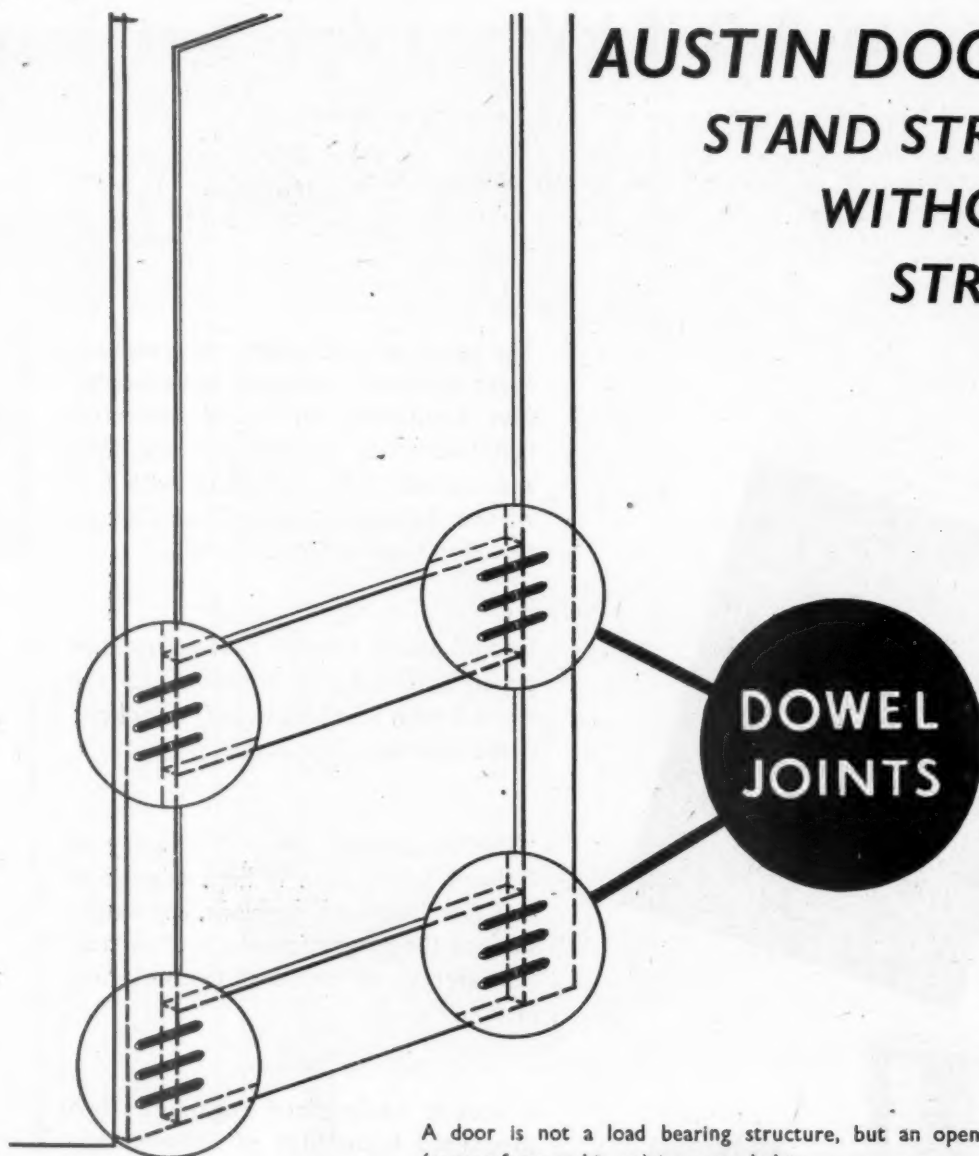


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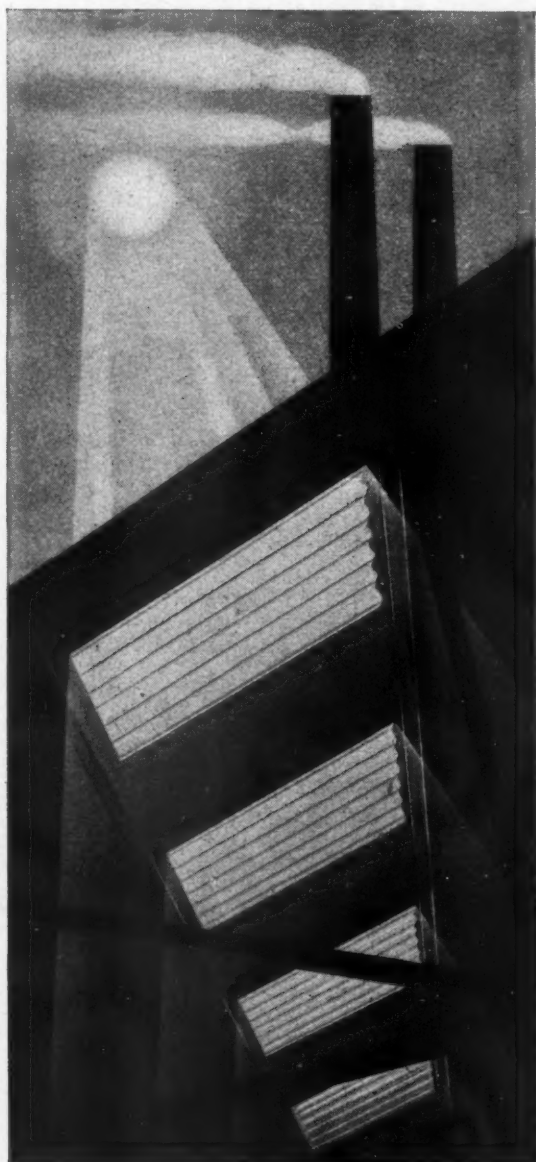
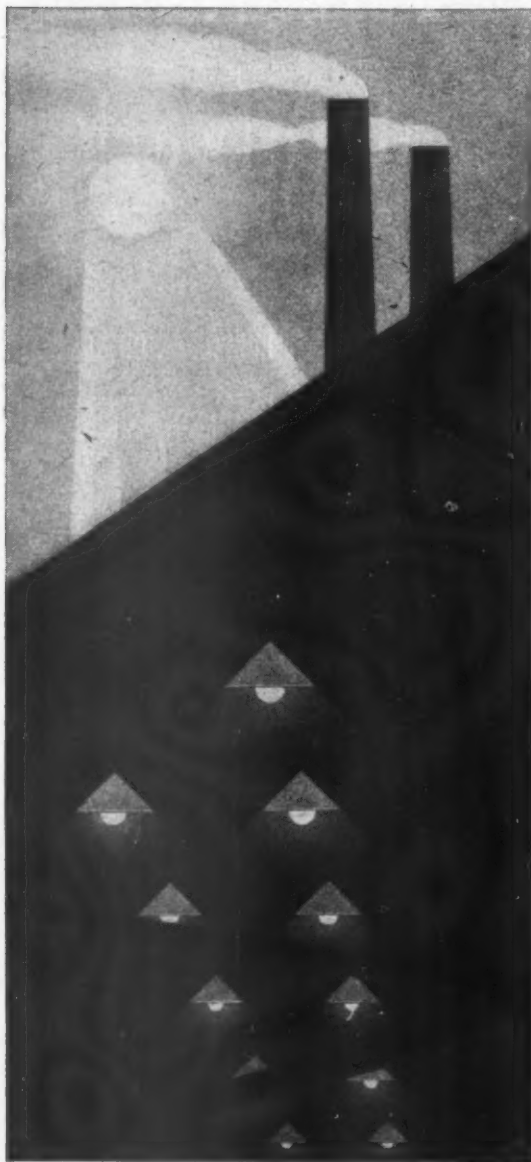
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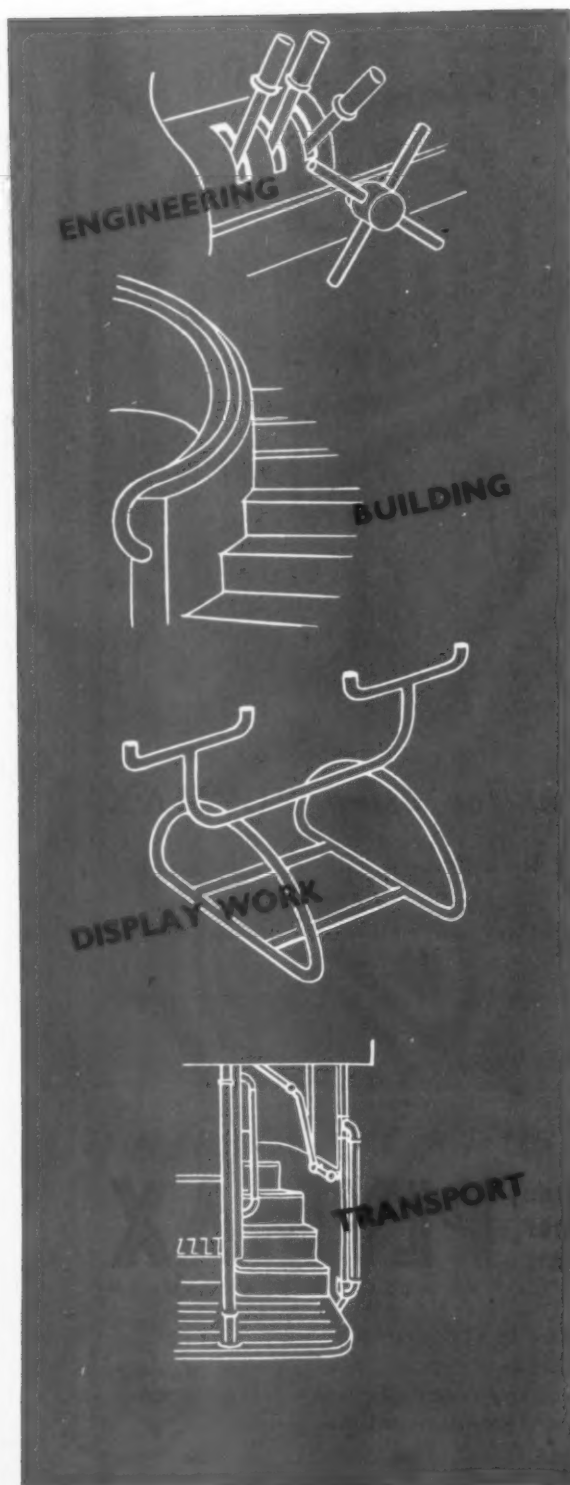
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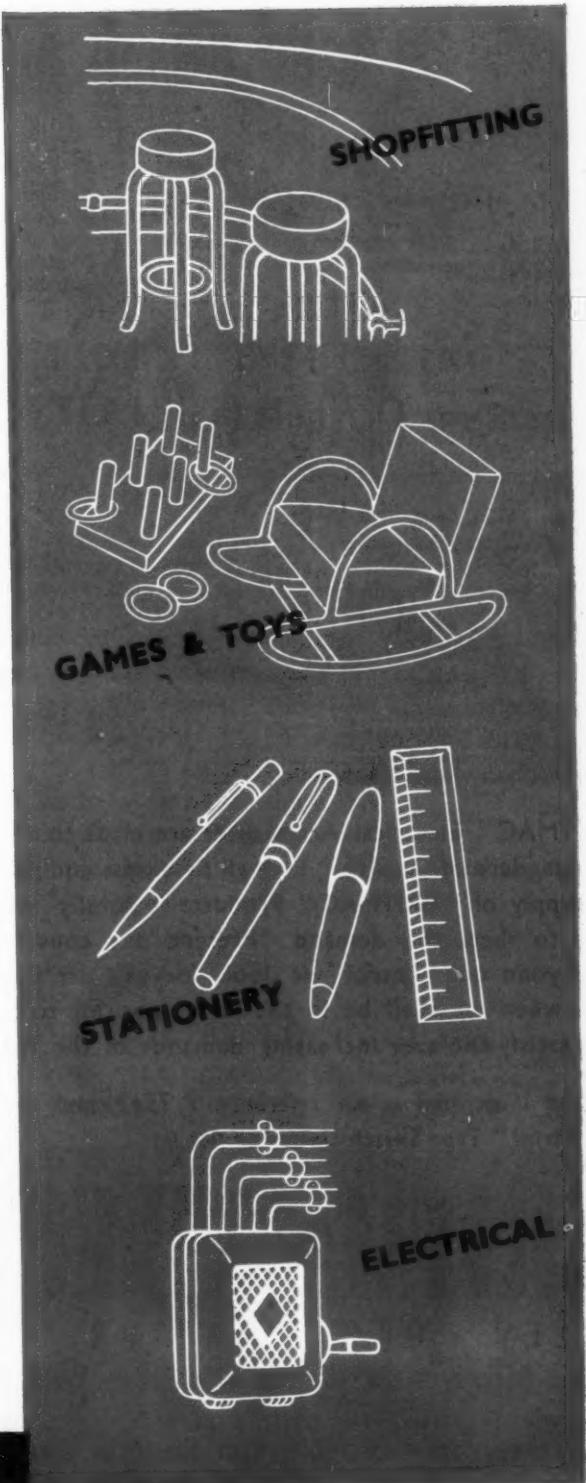
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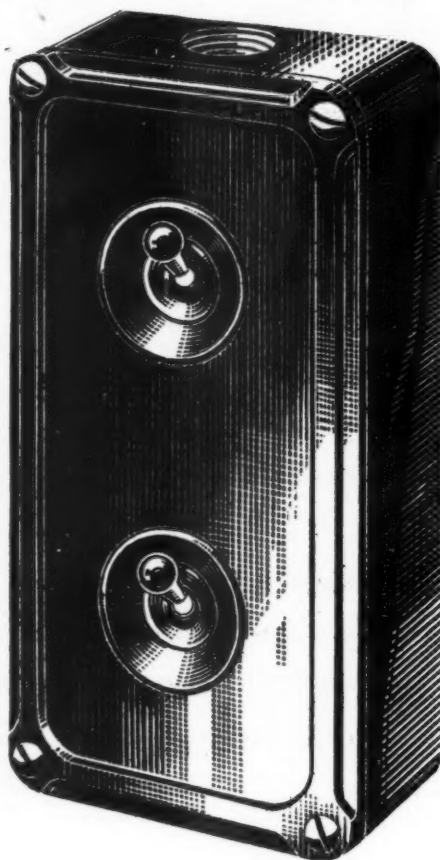
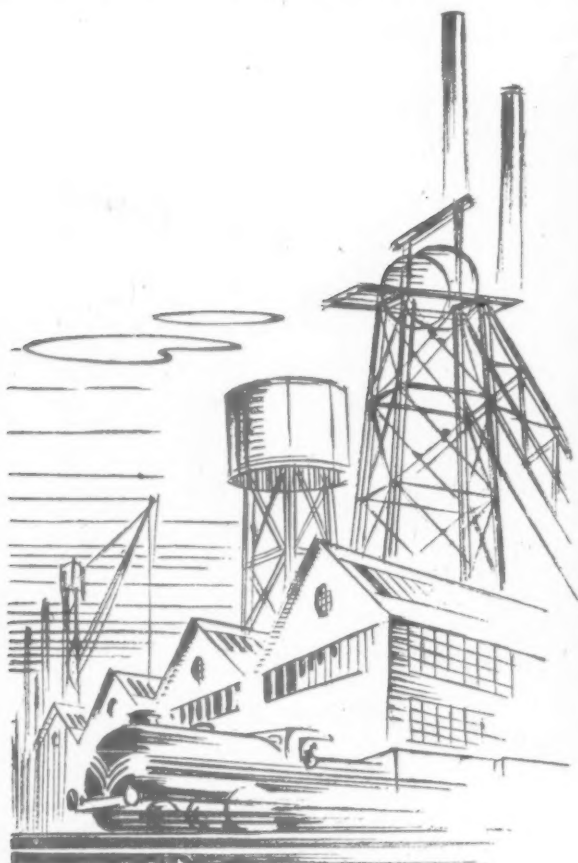
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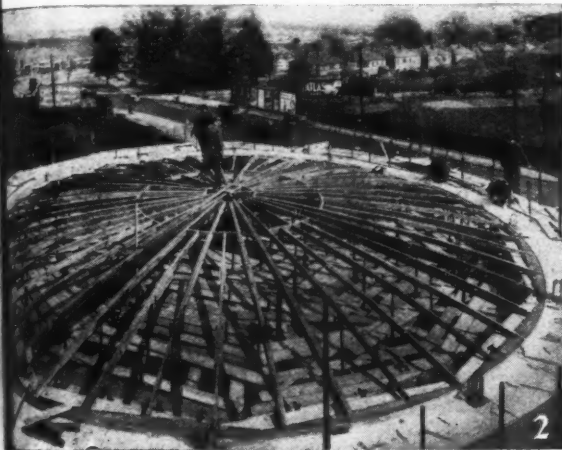
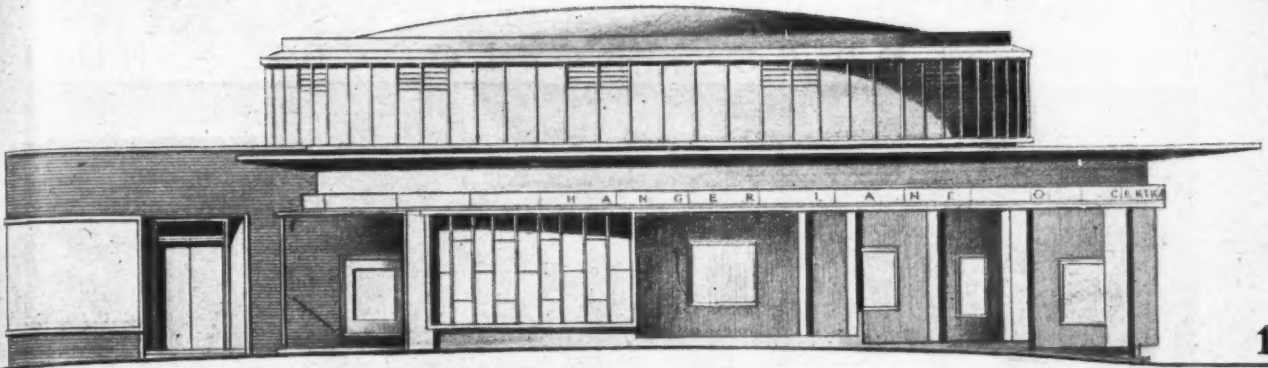
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The illustrations show : 1. Elevation of design for permanent station. 2. Wooden formwork for the reinforced concrete dome. 3. Section through the top ring beam of the dome. 4. Reinforcement and permanent shuttering for the dome in  $1\frac{1}{2}$ " Marlith. 5. A view from underneath the dome showing the Marlith slabs before plastering.

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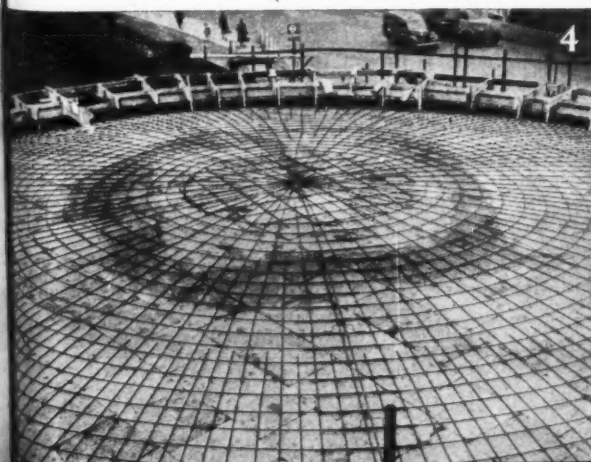
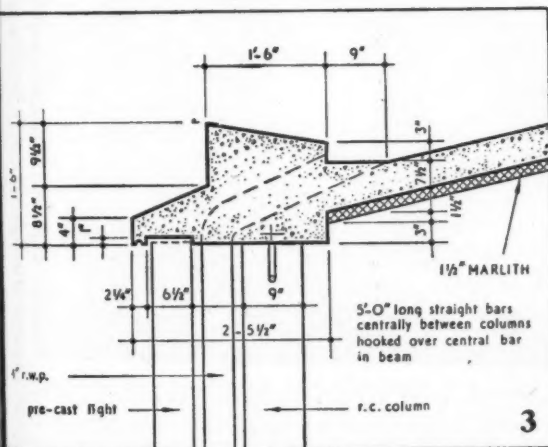
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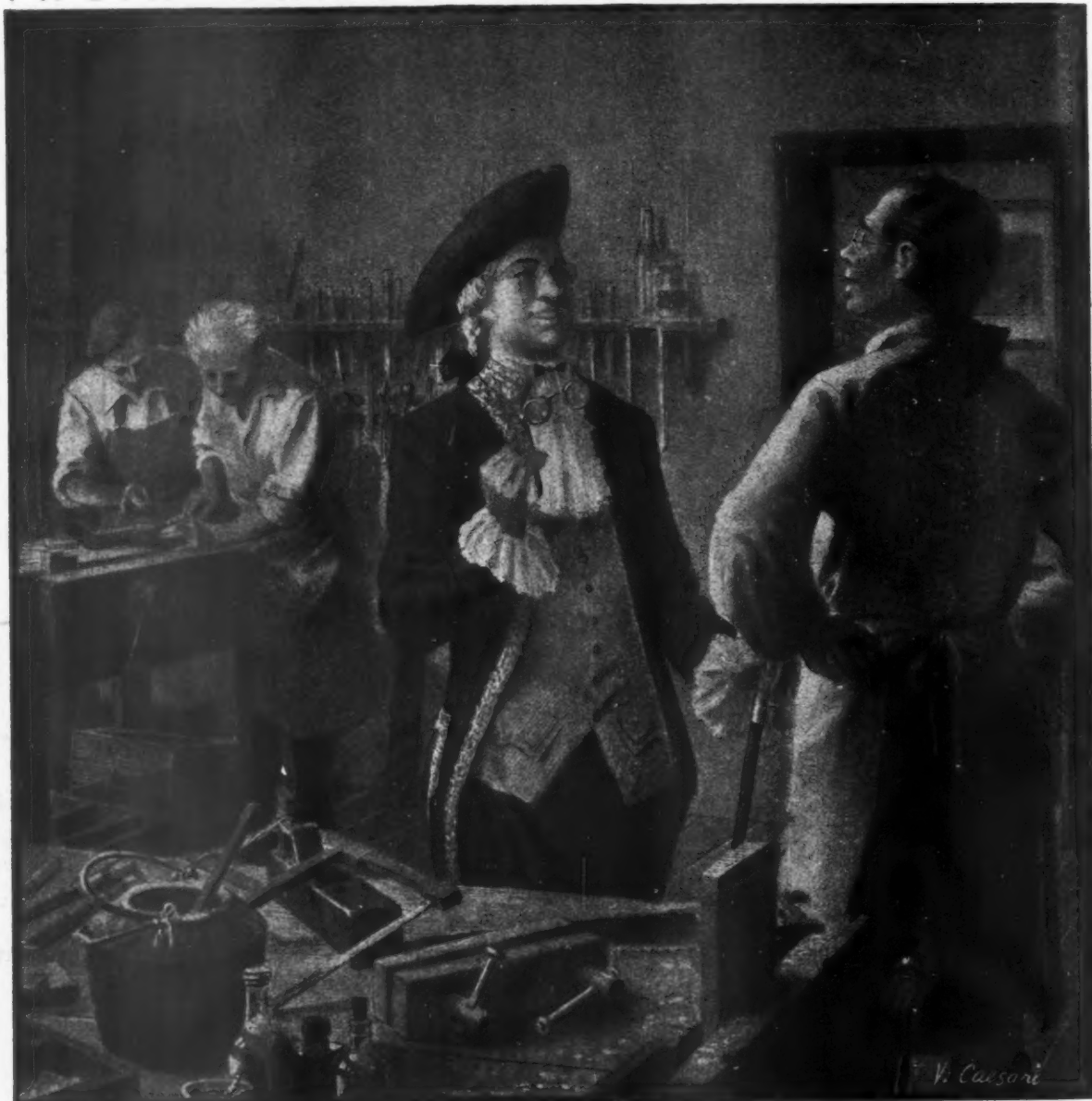
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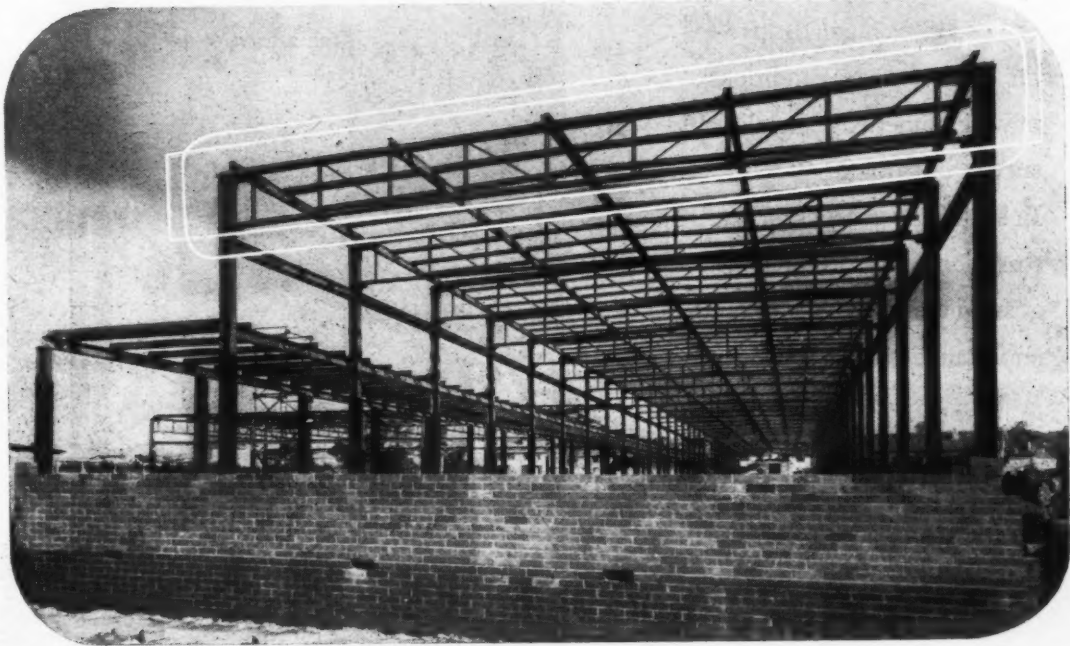
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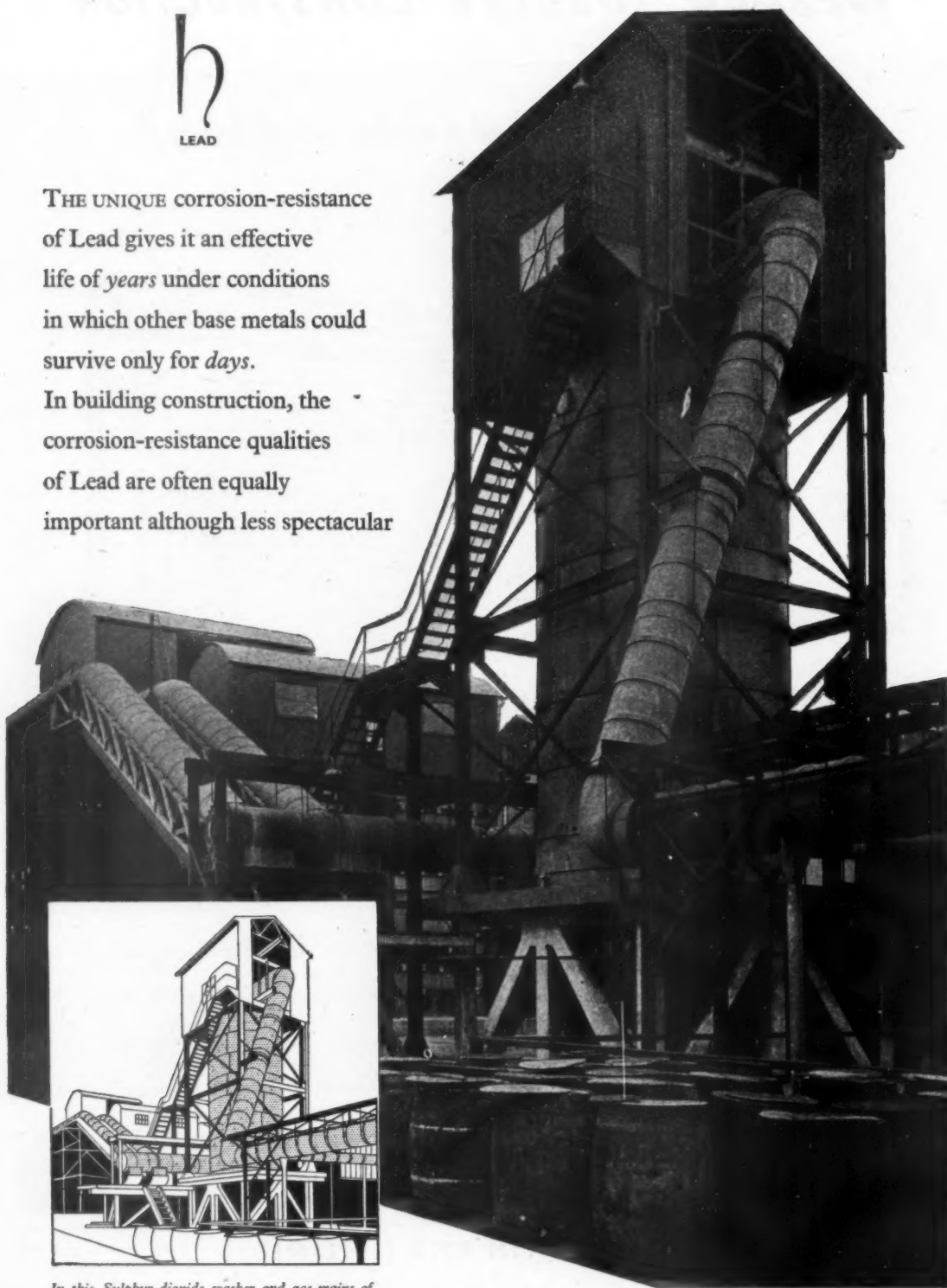
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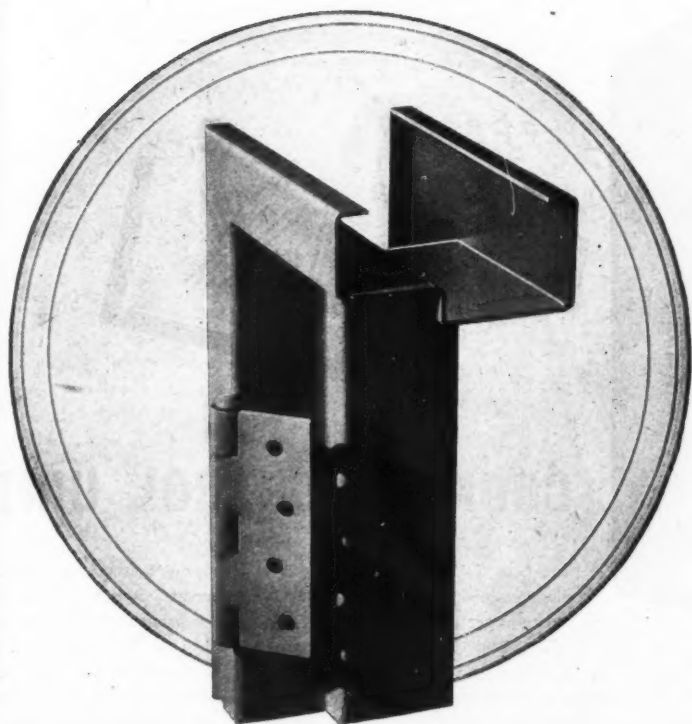
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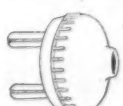





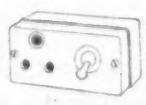



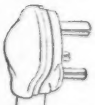
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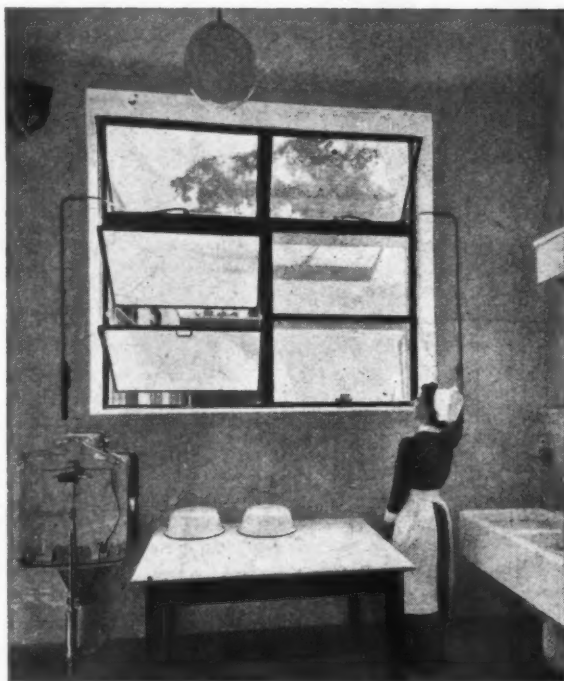
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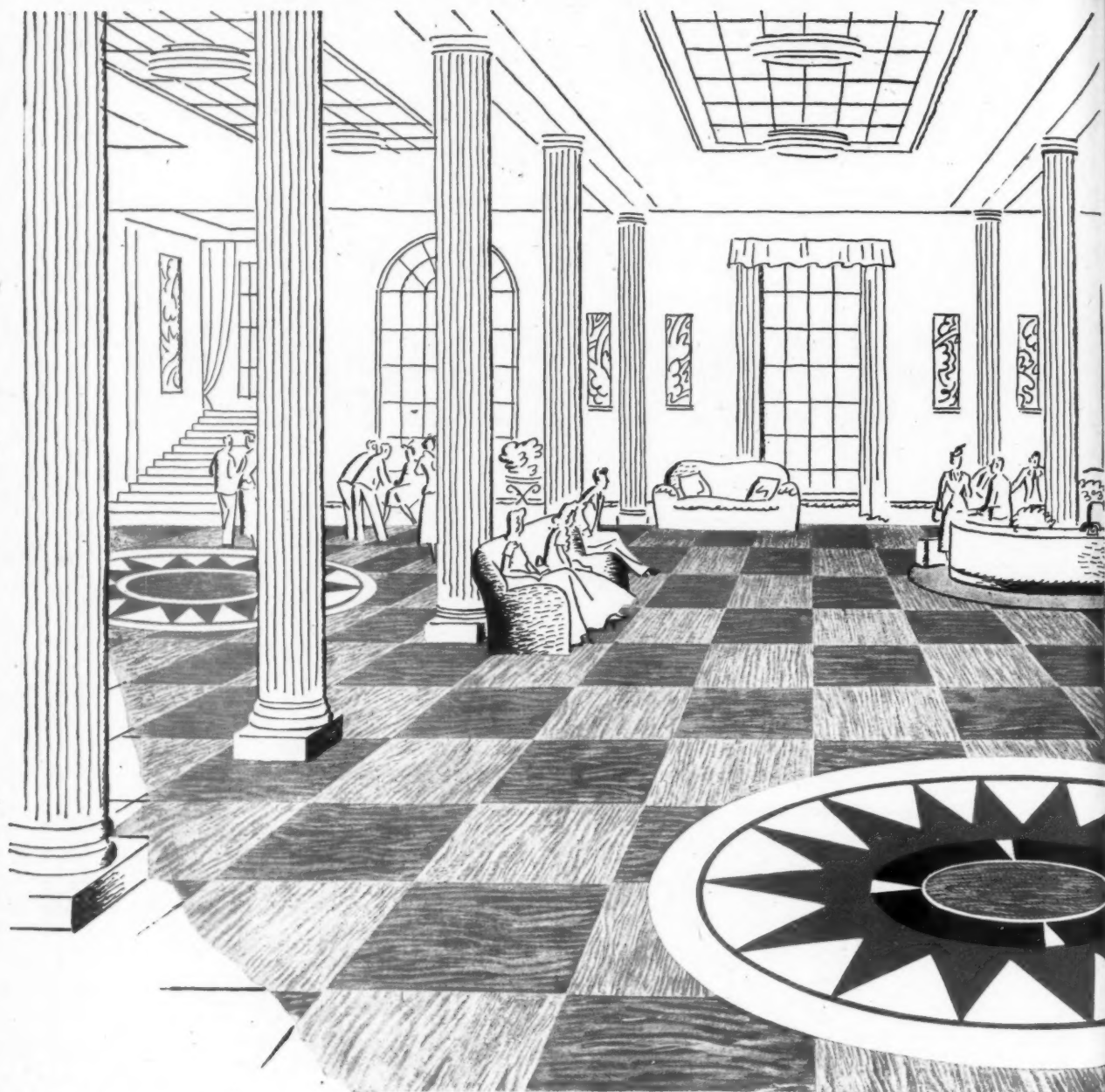
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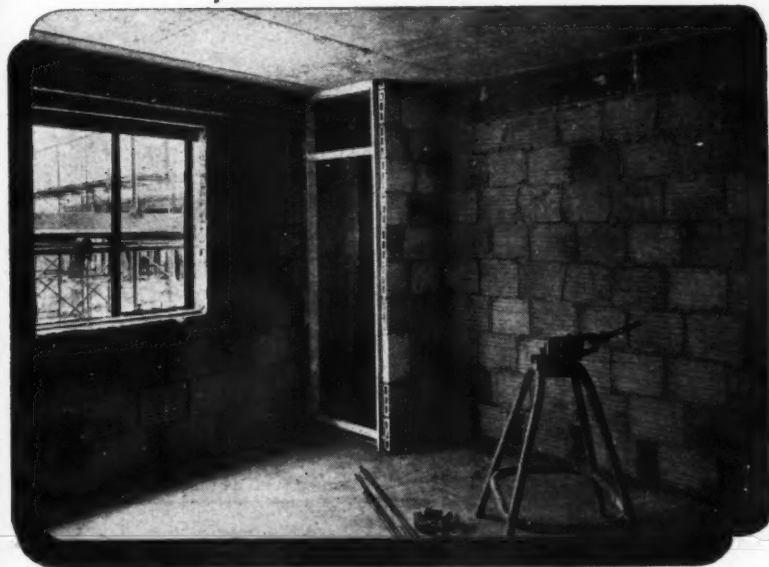
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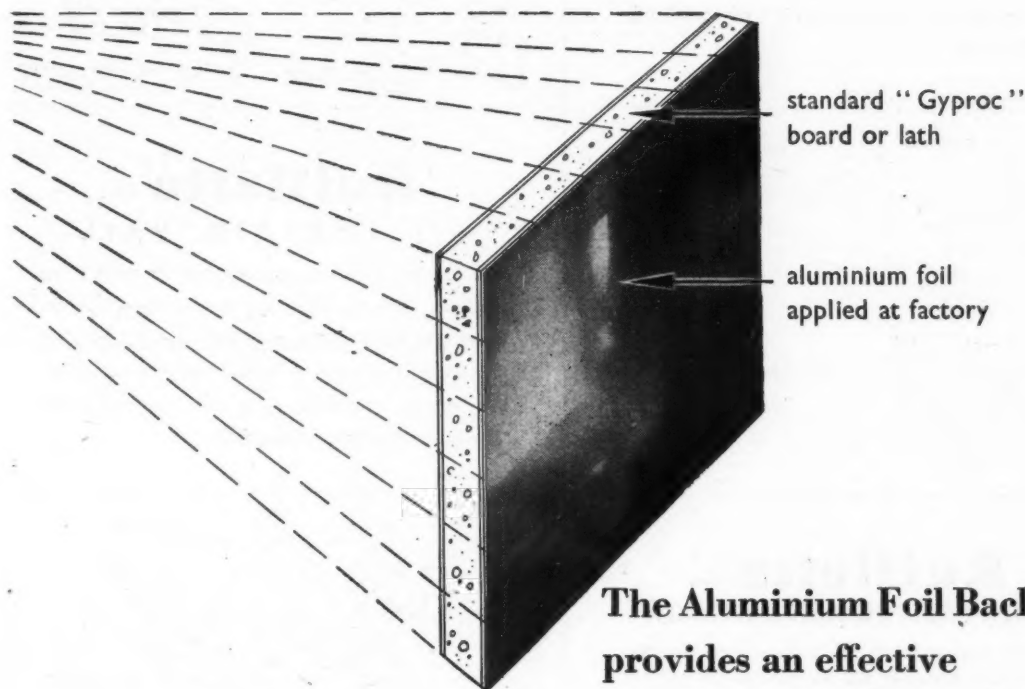
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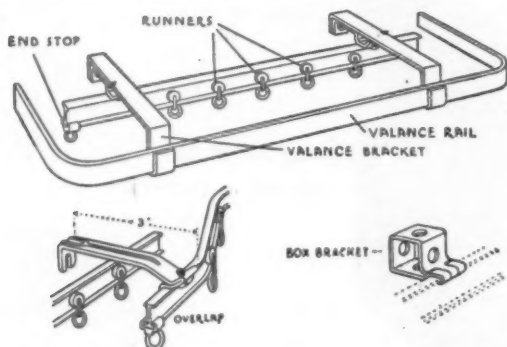
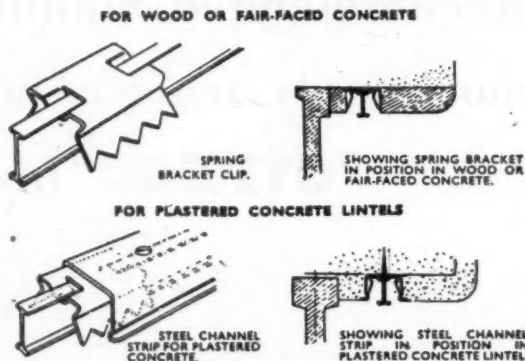
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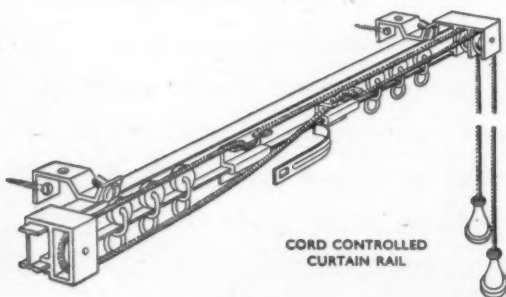
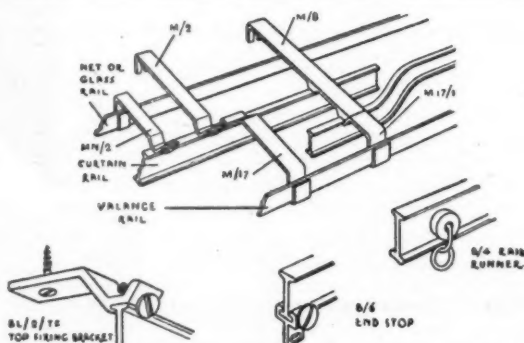


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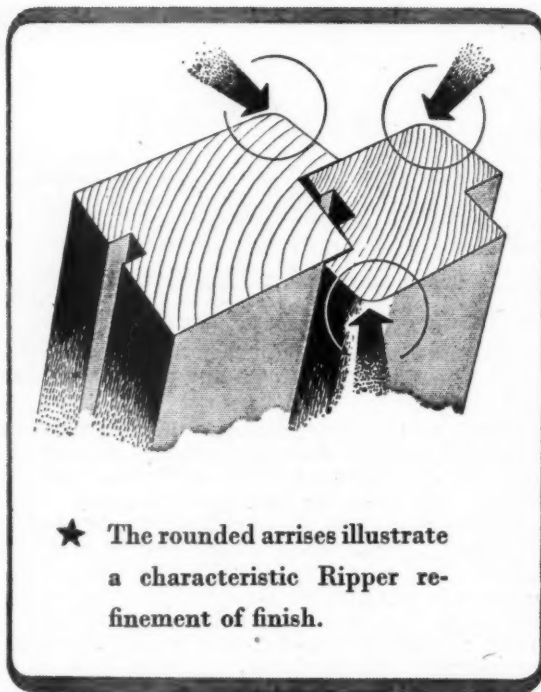
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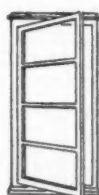
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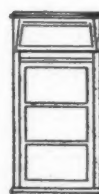


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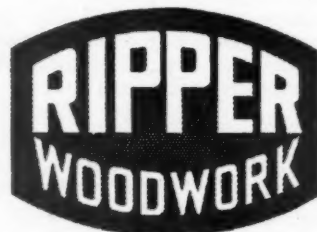
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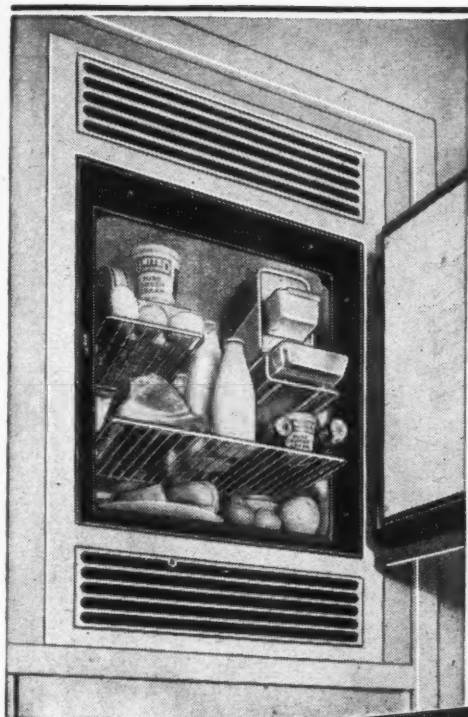


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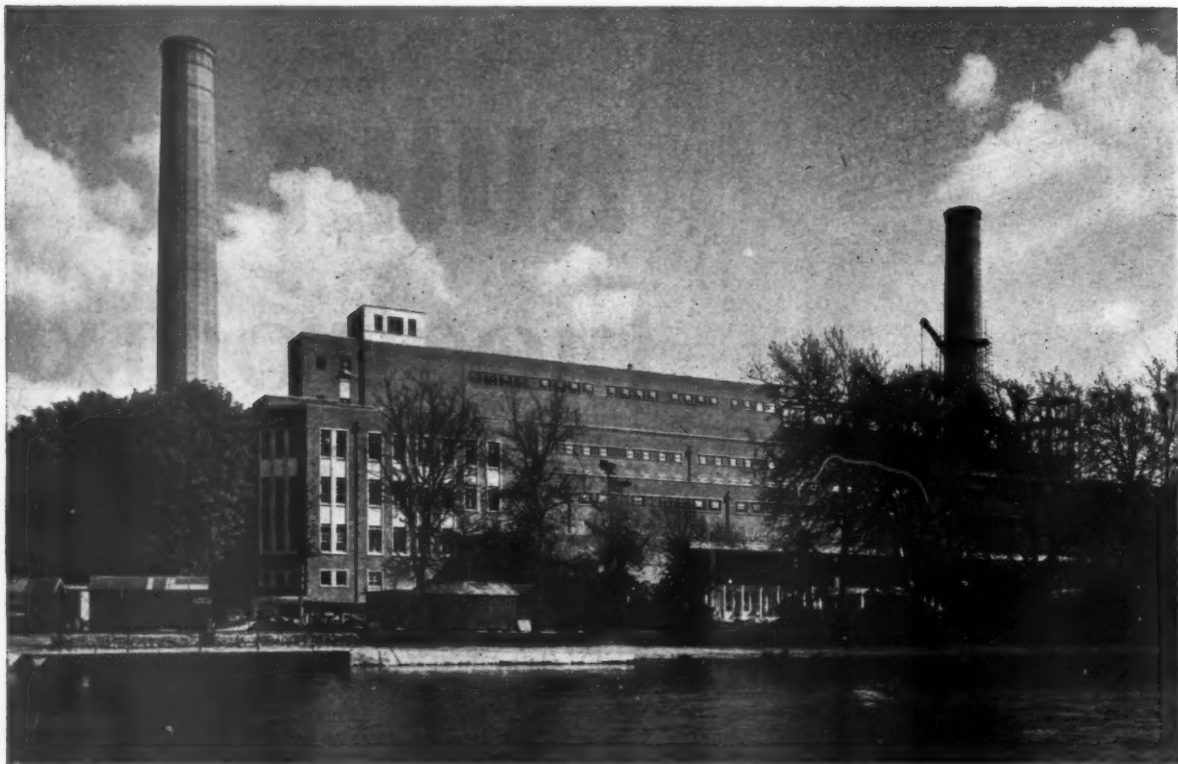
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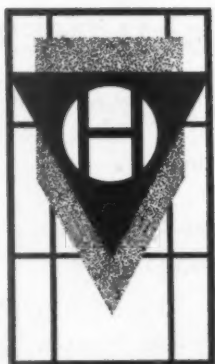
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## DIARY FOR APRIL MAY AND JUNE

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 given in the glossary of abbreviations on the front cover.

**BIRMINGHAM.** *British Industries Fair.* Birmingham and London. MAY 2-13

**DUNDEE.** *Trade Exhibition.* At the Royal British Hotel, Dundee. (Sponsor, D. A. Anderson & Son Ltd.) APRIL 26-28

**EDINBURGH.** *Trade Exhibition.* At the Scotia Hotel, Great King Street, Edinburgh. (Sponsor, D. A. Anderson & Son Ltd.) UNTIL APRIL 15

**FOLKESTONE.** *TPI Country Meeting.* W. L. Platts. *Administrative Problems in Relation to Securing Amenity.* Sir Patrick Abercrombie. *Some Planning Problems of Coastal Towns.* At Folkestone. MAY 20-22

**LISBON.** *The Sixteenth International Congress of the History of Art.* Details, Sir Leigh Ashton, Victoria and Albert Museum, S.W.7. APRIL 18-24

**LONDON.** *Reception by the President and Mrs. Waterhouse.* At the RIBA, 66, Portland Place, W.1. 8.15 p.m.-12 midnight. APRIL 29

*The Royal Academy Summer Exhibition.* At Burlington House, Piccadilly, W.1. APR. 30-AUG. 7

*British Industries Fair.* London and Birmingham. MAY 2-13

*RIBA Annual General Meeting.* At the RIBA, 66, Portland Place, W.1. 6 p.m. MAY 3

*Exhibition of Packaging Materials* at Murray House Exhibition Hall, Murray House, Petty France, S.W.1. (Sponsors, Institute of Packaging and Printing, in collaboration with the CID.) MAY 3-31

Mr. E. B. Hugh-Jones. *Safety as a Factor on Road Design, Construction and Layout.* The First Rees Jeffrey's Triennial Lecture. At the Institution of Civil Engineers, Great George Street, S.W.1. (Sponsor, TPI.) 5.30 p.m. MAY 5

*Open-air exhibition of paintings in the Embankment Gardens.* (Sponsor, LCC.) Weekdays. MAY 9-21

*Building and Engineering Exhibition (Equipment and Materials.)* At the Horticultural Hall, S.W.1. (Sponsor, "Britain's Best" Exhibitions.) MAY 16-27

**SOUTHAMPTON.** *Allied Ironfounders' Exhibition Train.* No. 5 Platform, Terminus Station, Southampton. (Sponsor, Allied Ironfounders.) UNTIL APRIL 14

**SOUTHEND.** *Allied Ironfounders' Exhibition Train.* Passenger Dock, Up Side, Southend Station. (Sponsor, Allied Ironfounders.) APRIL 19-23

**WORCESTER.** *Exhibition of designs submitted in Worcester school competition.* At Christopher Whitehead School, Malvern Road, Worcester. (Sponsor, Worcester Education Authority.) UNTIL APRIL 14

### COMPETITIONS

*Fleet Air Arm Memorial of the 1939-45 War, at Lee-on-Solent, for the Imperial War Graves Commission.* Premiums, £100, £60, and £30. Assessor, Edward Maufe, R.A. Conditions from the Secretary, Imperial War Graves Commission, 32, Grosvenor Gardens, London, S.W.1. Closing date, May 20, 1949.

*Design of Community Centre.* The Incorporated Association of Architects and Surveyors. Details to be announced by IAAS, 75, Eaton Place, Belgrave Square, S.W.1.

## N E W S

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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.

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

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

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



Part of a permanent exhibition of clay bricks and tiles at Tilgate, near Crawley, Sussex. It has been arranged by the South Eastern Brick and Tile Federation as a guide to architects of Crawley New Town.





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(African Proverb)

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## From AN ARCHITECT'S Commonplace Book

**ROAD-HOUSE ARCHITECTURE.** [*From Building and Prospects, by John Piper (The Architectural Press).*] In the early period of road-houses, soon after the end of the 1914-18 war, they were built false to look real: upper floors were supported by girders that had oak-faced corbels; appliqued half-timber, half-an-inch thick and nailed on, had oak studs projecting from it; thin wall-board was coated with puddled plaster to look solidly old world. In the later period, ending about 1940, they were built real but look false. The half-timbering of this later type is structural; the oak beams are solid and carry the upper floors handsomely, and the linen-fold panelling might have come out of a cathedral—though the whole effect is of something run up overnight for an expensive Hollywood production. The brewers' architect, on the whole, does not build queerly enough. There is not enough about these restrained, tile-hung buildings of his to tell their purpose forcibly. One has to peer here and there for "Saloon Bar" or "Car Park" to be sure the building is not a suburban residence, except that there is no recommended "quick-growing" hedge planted between it and the road. Yet these buildings, when they are not too stylized, have points to recommend them. What often happens is that the managing director of the brewery in the county town confers with the architect he usually employs as to what is needed, and what the licensing justices will pass, and between them they are responsible for the new house, down to the details of beer-pulls and soft furnishings. Their "good taste" will probably be rather aggressive, but they will give at least a thought to comfort.

### **The Annual SCOTTISH CONFERENCE OF THE INSTITUTE OF HOUSING**

*took place on March 31 at the Salutation Hotel, Perth.*

Mr. J. J. Robertson, speaking at this meeting, said that the Scottish Housing Advisory Committee recommended local authorities to consider how far it was desirable and practicable to adopt the "centralized" system of housing management. Under this system one department—the department of the housing manager or factor—was responsible for most or all of the authority's dealings with the tenant. In practice this meant that instead of receiving separate visits from officials of several departments, the tenant's contact with the authority was through the housing manager or factor, who was thus aware of all the tenant's difficulties. Some 40 housing authorities had appointed housing managers. This advance would not have been possible if it had not been for the course of training provided by the Institute of Housing and the Society of Housing Managers. But there was room for similar appointments by other authorities, and even those housing authorities whose estates were too small to justify a full-time factor would find it worth their while to encourage some member of their staff to take training in this subject.

The speaker also referred to the controversial subject of choosing tenants. Parliament, he said, had put the choice in the hands of the local authorities, and each one had devised its own system. But since the war not only the demands of the general public, but also the special needs of farm workers, miners and industry generally, had made this task very difficult. For every successful applicant for a house there were a score who were unsuccessful and who, not unnaturally, regarded the local system of allocation as unfair for that reason. It seemed that the stage had been reached when local authorities themselves would like to have some further guidance on this problem, and the Scottish Housing Advisory Committee had been asked to survey local authorities' existing methods of allocating tenancies.

### **The Ministry of Health announces CHANGES IN REGIONAL ORGANIZATION.**

The functions of principal housing officers have been transferred to principal regional officers who, in addition to assuming full regional responsibility for the housing work, will carry out the duties previously per-

formed by general inspectors and the regional officers for health services whose appointments, as such, will be brought to an end. All communications to regional officers, other than those intended for professional and technical officers, should be addressed to the principal regional officer.

### **Three conferences for executives and operatives in the furniture industry were held recently by the SCOTTISH COMMITTEE OF INDUSTRIAL DESIGN at the Kelvin, Hall, Glasgow.**

Professor R. Gordon Brown, who spoke at one of the meetings, said that architects should know what furniture makers were doing, and until there was a common basic foundation to the entire approach to building and furnishing there would not be much unity. The Scottish student of architecture had an unnecessary fear of relying on Scotland alone. He was afraid that to be Scots was to be provincial, but the reverse ought to be the attitude. The speaker said that he felt the architecture of the future would be simple, because economic conditions would enforce this simplicity and because the present generation was unpretentious. Buildings would be much more related to their surroundings and less monumental. Colours would be richer, and the heavy type of three-piece suite of furniture would be out of key with the new architecture.

### **★ THE RECONSTRUCTION OF COVENTRY was discussed at the annual dinner of the Coventry Society of Architects on April 1.**

At this meeting of the No. 1 Chapter of the Birmingham and Five Counties Architectural Association, held at the Manor House Hotel, Leamington Spa, the Mayor of Coventry said that everything was being done to make the city one of the finest in the country. It had been said that the private architect did not receive sufficient acknowledgment of his abilities, and that much of the development work was left to the city architects' department. However, if the rebuilding continued, an immense number of outside architects and builders would be wanted, in addition to the city's professional men. If Coventry could have the same amenities as other

places from a residential point of view it would become the most prosperous town in the kingdom. Unfortunately the residential parts had not been built up as they would have liked. It was nonsense to suggest that "pre-fabs" should be built in the best residential part of the city. This would result in professional men living outside the city and spending their money elsewhere.

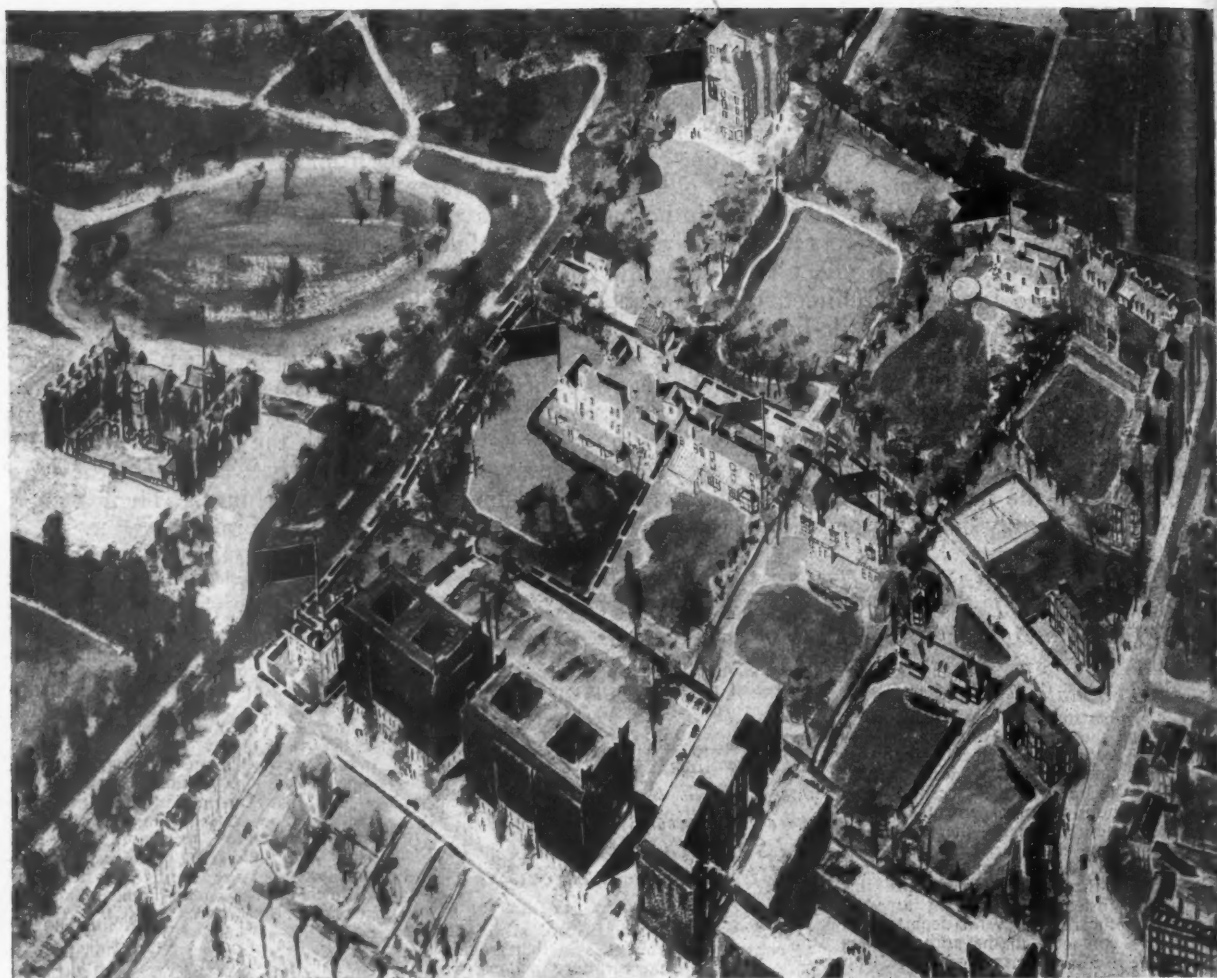
Among the guests present was Mr. A. B. Knapp-Fisher, vice-president of the RIBA, who said that the present difficulties were a challenge and an opportunity; a challenge because the whole structure of their profession was undergoing changes, and an opportunity because during the next few years there would be an immense amount of work for everyone.

### **News of the BUILDING SITUATION IN NIGERIA has been sent to us by a correspondent.**

PWD work is going on all over the country under the normal yearly programme, or as part of the Development and Welfare Plan, but our correspondent points out that shortage of staff and materials is creating grave difficulties. There is only one architect for each of the provincial regions, and these are responsible to engineers, who supervise the work the architects design. There are no quantity surveys in the country. Materials are ordered through the Crown Agents, with delays up to three years. Conditions have resulted in planning to type, but it is hoped that the splitting up of the country into four areas, each with architects of their own, will result in the production of better buildings.

### **A NEW BRIDGE FOR STOCKHOLM has been proposed.**

City authorities are now studying a number of proposals, made as the result of an international architectural competition, for a projected large bridge connecting the populous southern heights with the eastern part of the city, via Beckholmen and Djurgården. Some of these proposals suggest the construction of tunnels through the southern mountains and under the Skansen Heights. An all-tunnel artery under the outer roadstead is also being advocated as a means of coping with the heavy volume of traffic at the narrow bottleneck at the Maclar Lock and through the Old City.



## Campden Hill and the LCC

The decision of the LCC to requisition part of Campden Hill as a site for workers' flats has caused considerable controversy in the press. Mr. Hilton Wright has prepared this aerial view of the area concerned. On the left is Holland House, which stands in the centre of Holland Park. On the extreme right is Campden Hill Road, leading

to the Campden Reservoir, in the top right-hand corner, and thence to Notting Hill. The broken line shows the extent of the site required by the LCC, covering a large amount of private land which was scheduled as an open space, together with Holland Park, in the Abercrombie-Forshaw County of London Plan.

### ★★ NEW METHODS OF SCHOOL BUILDING are to be considered by a recently formed Development Group attached to the Architects Branch of the MOE.

The following have been appointed to form the nucleus of the Development Group:—A. Pott, A.R.I.B.A., A.A.DIPL., D. L. Medd, A.R.I.B.A., A.A.DIPL., Mary Crowley, A.R.I.B.A., A.A.DIPL., and J. P. Price, A.R.I.B.A., A.A.DIPL. They will investigate educational requirements, particularly in the light of any new developments in teaching technique, to recommend how those requirements can best be met in terms of architecture, and to keep under review, in the light of experience, the suggestions made by the Ministry about the lay-out and construction of schools and other educational establishments. They will also co-operate with manufacturers to influence any new techniques of building so that they may fulfil modern educational requirements. In addition they will study the latest scientific information in the light of the needs of educational building and make the results

of these studies available to local education authorities and any private architects concerned. The most important feature of this change is that building schemes will be discussed informally in their earliest stages instead of the various branches of the Ministry considering schemes formally after they have reached a fairly advanced stage.

### ★★ ARCHITECTS FOR THE FESTIVAL OF BRITAIN Exhibition have been appointed.

The following architects have been appointed to carry out work for the South Bank site: Gordon Tait, F.R.I.B.A., of Sir John Burnet, Tait & Partners, the firm that undertook the architecture of the 1938 Empire Exhibition, Glasgow; Brian O'Rourke, M.A., A.R.A., F.R.I.B.A., recently appointed joint architect for the National Theatre; Architects' Co-operative Partnership, a group of young architects who qualified together at the AA; George Grenfell Baines, A.R.I.B.A., A.M.T.P.I., chairman of the RIBA Architectural Science

Board Study Group on Building Needs; Basil Spence, O.B.E., F.R.I.B.A., who is designing the new Atomic Research Building, Glasgow University; H. T. Cadbury Brown, A.R.I.B.A., winner of the British Railways ticket office competition; Messrs. Arcon, a firm with considerable experience of exhibition work; Eric Brown, L.R.I.B.A., M.S.I.A., an experienced exhibition designer; Maxwell Fry & Jane Drew, F.F.R.I.B.A., whose recent works include town planning schemes for the British West African colonies and colleges and schools in the Gold Coast; Denis Clarke Hall, F.R.I.B.A., who is noted for his work on schools, such as the Ormesby Junior and Infant School and Richmond High School; Bronek Katz, DIP. ING. ARCH., and R. Vaughan, A.A. DIP., A.R.I.B.A., architect for the UNESCO Exhibitions in Paris, 1946; Robert Goodden, R.D.I., A.R.I.B.A., F.S.I.A., and R. D. Russell, R.D.I., F.S.I.A., who both designed parts of the "Britain Can Make It" Exhibition; and Wells Coates, O.B.E., R.D.I., F.R.I.B.A., PH.D., one of the architects for the BBC studios at Broadcasting House in 1930. The appointment is also announced of Mr. H. F. Clark, A.I.L.A., as consultant landscape architect.



## AN INCREASED RATE OF BUILDING has been asked for by the ABT.

At the recent annual general meeting of the Association the following resolution was passed:—"This annual general meeting is alarmed at the continuing magnitude of the national housing shortage and believing that good housing is not only a vital factor in the health and happiness of the people, but also in industrial production and efficiency, calls upon the Government to take steps to bring about a very substantial increase in the rate of house building which at present merely replaces the normal wastage. The following steps are immediately practicable:—Increase the amount of capital, labour and materials available for housing; impose such controls as will prevent wastage of labour and materials on unessential and luxury work; carry through a plan providing for a minimum national target of 400,000 new housing units per year; building licences on all licensed jobs to be publicly and prominently displayed in order to be visible to passers-by."

## NEWS IN BRIEF

*The RIBA Golfing Society played their first match of the season at the Ashridge Golf Club, Bucks., on Wednesday, March 30. Their opponents, the Building & Allied Trades Golfing Society, won by 9 to 7.*

*Demolition of the largest remaining part of the old Southern Galleries of the Science Museum, South Kensington, will begin this month to make room for the new centre block of the museum, of which the basement and ground floor, with a temporary roof, are to be ready for use during the Festival of Britain in 1951.*

*A first series of "practice notes" on development charges, issued by the Central Land Board, has been published by the HMSO (1s.) The notes, which are indexed, set out the board's principles for assessing development charges on various types of property and provide a guide to liability and procedure.*



*Mr. Howard Robertson, F.R.I.B.A., winner of this year's Royal Gold Medal, being presented with the award by Mr. Michael Waterhouse, President of the RIBA, on April 5.*

# DISTRICT HEATING

THE publication of a very full report on district heating in American housing\* raises matters of wide interest beyond the technicalities of heating. The report shows that on the whole there does seem to be a case for district heating in domestic buildings for American conditions but whether the case can be made so strongly for English conditions depends upon a number of factors.

The outstanding difference between the two countries lies not in the weather conditions, nor even in the types of housing or temperatures demanded in the houses, but rather in the differing methods of legislation. In the United States housing legislation gives the Federal Government an interest in annual plus capital costs, whereas here it is only capital cost which is considered. It therefore pays the United States authorities to ensure an economic heating system. Moreover, it is to be noted that in the United States space is allocated on the size of the family and that the rent is decided on income. This assures a maximum use of housing space rather than a casual use based upon a more or less indiscriminate building of 3-bedroom houses with its consequent danger of high rents for low-income tenants.

On the more technical side it is clear that although district heating results in big economies in fuel, its economy in cost is only marginal, so that considerable care is required. The argument that our climate is unlikely to produce an economic result is refuted by examples from US districts such as Seattle where conditions are very similar to here. Moreover, the fact that we never have the extremely cold spells is an advantage and our annual load factor is probably more favourable. On the other hand it is clear that although in the States district heating is used on fairly low density schemes, the actual buildings are usually more closely grouped than on our typical site layout of semi-detached houses at twelve to the acre. For district heating there seems a good case for closer grouping, such as the use of the three-storey houses which the Ministry of Health proposes, even if overall density is kept low. The report also states that good thermal insulation and well fitting doors and windows are important in reducing heat loss. This seems to be an argument which applies at least equally to other forms of heating.

Finally the report makes an extremely important point about the collection of information. The mission which visited the US saw about eighty schemes and collected a vast amount of data but found that no one place could provide all the information that was wanted and also that the form in which information was available varied from place to place. Several district heating schemes are now in operation in this country and more are proposed. The future development of this system may well depend upon the results of these early efforts and it is therefore vital that data from these should be both

\* District Heating in American Housing. National Building Studies Special Report No. 7. HM Stationery Office 4s.6d.

full and comparable. This is most unlikely to occur unless some organization is set up specially for the purpose. Presumably this should be done by either the Ministry of Fuel and Power or the Ministry of Health. We hope the appropriate people will not miss the opportunity.



*The Architects' Journal*

9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1

Phone: Whitehall 0611

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

## WHAT IS A POSTER?

Artistic event of last week was the opening by the Prime Minister of the exhibition of London Transport posters at the Victoria and Albert Museum. It goes back to 1908, and is a pleasant reminder of the pre-war days when the leadership of London Transport made British posters the best in the world. The less said the better about most of the posters produced since the war. Perhaps the popular interest this exhibition is sure to arouse will inspire London Transport's publicity department to resume the enlightened patronage of the art that they exercised when Frank Pick was alive.

But why was it thought necessary, in preparing this exhibition, to isolate the pictorial portions of poster designs and show them separately as a series of paintings in their own right? They make it very clear that the pictorial portion of even the best poster is not necessarily of any interest as a picture, and that the best paintings do not necessarily form the basis of a good poster. The essence of a poster is surely that picture and lettering are combined in one design; in the

exhibition this principle is sadly confused.

London Transport are themselves doing their best to confuse it, too, by their new practice of issuing posters in the form of two sheets to be pasted up alongside each other, one containing a picture and the other the text. This is not the way to encourage the revival of poster art.

## AA RECEPTION

R. E. Enthoven, the benign president of the AA, had to shake at least a thousand assorted hands at the annual reception the other day. Such functions are apt to be stiff and formal occasions; Bedford Square, however, seems to produce a friendly and family (the two not always synonymous) atmosphere. With puppets in the attic, dancing in the basement, and a well-furnished bar in between, the guests found no idle moment.

Also on view at the Reception were some of Lovett Gill's stringed instruments. Mr. Gill gave a talk at the AA recently on the making of violins and violas, a craft at which he is expert. It is surprising how many bits and pieces go to make up the ordinary fiddle. You can see them all at the AA, with working drawings of Lionel Tertis's viola. The admirable craftsmanship of the work shows that though buildings today are mostly of concrete blocks and corrugated asbestos, at least one architect still delights in manual skill.

## PIPER CALLS THE TUNE

Just as there are those who persist in thinking of John Betjeman as merely a funny man, so there are those—or are they perhaps the same people?—who rate John Piper as just a skilful topographical painter with an over-developed penchant for bad weather and structural decay. But there is much more to Mr. Piper than a few acres of inky skies and a fistful of mouldering rocks. He is, in my view

at least, one of the few great figures in the world of architecture today, not just because of his eye for character and sense of place, though none is sharper, nor because of his remarkable skill, which few can equal, in portraying it, but because it is through Piper's work and that of his friends and fellow artists—Betjeman, Lancaster, Grigson, Richards, and others—that architects are at last regaining the use of their eyes.

Indeed, since the reign of Le Corbusier, in the 'thirties, I suppose no man has had a comparable influence upon the young architects of the day. "Use your eyes," says Piper in effect, "and take nothing, absolutely nothing, for granted." What admirable advice, and how well he heeds it himself. In *Buildings and Prospects*,\* published last week—a generously illustrated collection of his writing on English architecture and topography—he turns his enquiring eyes once again upon those objects, so commonly seen but so seldom looked at, such as pubs and lighthouses, pillar-boxes and pulpits, drapers' shops and stuccoed chapels—and transforms them so magically that never again do they look quite the same.

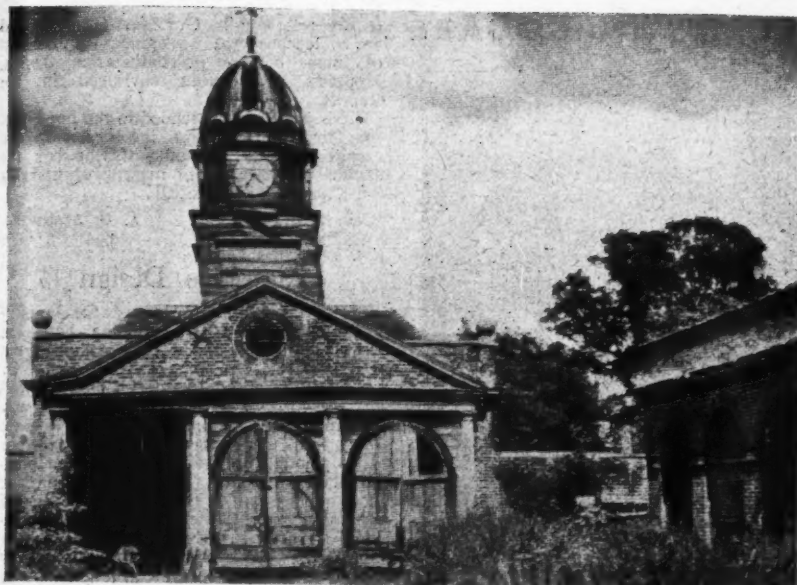
But—and here is the second moral of this handsome picture-book—don't be beguiled by the pictures into thinking that that is all there is. "You will never love art well," says Piper, quoting Ruskin in the foreword, "till you love what she mirrors better." And in this age of magazines, when architects are so busy looking at pictures of buildings that they never look at real buildings at all, this is a warning for us all to remember. Have a look at *Buildings and Prospects* then. It's a real eye-opener.

## ARCHITECTS AND ENGINEERS

While an editorial in *The Engineer* points out, in a way Astragal welcomes, that architects and engineers should work "as a team in equal partnership," nevertheless the muttered asides overheard at a recent discussion of the Arts Society of the MOW suggest that that ideal is not always easy to reach. Astragal has noticed, however, over a period longer than he cares to remember, that understanding

\*Architectural Press. Price 12s.





The stables of a vanished Manor House at Wheatfield, Oxon, which have crossed the borderline between pleasing decay and ruin. From a chapter on "Pleasing Decay" in the book "Buildings and Prospects" by John Piper, reviewed by Astragal below.

and toleration between the professions does show signs of increasing.

This improvement is considerably helped by the extremely wise attitude of the powers-that-be at MOW in encouraging controversial matters to be discussed freely by their staff. Last week, two guests, John Gloag and Sir Owen Williams, started debating the subject "Modern Building, is it an Art or a Science?" We all, of course, know the answer to that, but how many of us would expect to hear it discussed in a hide-bound red-taped bureaucratic Ministry?

Also attending and commenting intelligently on the debate were two girls, who, when pressed, admitted to being neither architects, nor assistants, nor even draughts-women, but just clerks. How many other offices can claim such appreciation at this level?

#### COUNTRY COTTAGES

The Council for Field Studies does not take its students very far in a new book which has just come my way, entitled *Country Cottages*.<sup>\*</sup> This is a very slim performance, decorated by some whimsy pen and ink sketches, and some rather too pretty water colours. The Editor's Note says, "Field study books discuss the problems of the countryside from the intimate angle of

the expert." It is difficult to believe that even "the older schoolchild" will be long satisfied. Good photographs would have been much more valuable than the sketches given, and the subject could have received more systematic treatment without becoming tedious. To deal with cottages in a book of 50 pages, of which many are taken up by sketches, and to devote another volume to "The Lapwing" suggests a slight sense of disproportion. Not that the lapwing deserves less, but cottages, so essential a feature of rural England, deserve more.

#### ALL LIT UP

Even after a week of illuminated signs there are still crowds of open mouths in Piccadilly Circus every evening, perhaps waiting for things to go wrong, for after nearly ten stationary years some of the flashing gear seems to be a shade unreliable. Astragal, incidentally, hears of a place called the Sussex Café where the failure to work of several letters at the beginning produced an effect the proprietors didn't mean. A lot of neon and other signs have been blasted off so many elevations, and the owners are no doubt feverishly re-installing them. Is it too much to suggest that the design should be a job for the architect who did the building itself, or at least for "an" architect, even if the building never had one?

ASTRAGAL

## LETTERS

R. W. Reeve, A.R.I.B.A.

J. B. Carter, A.R.I.B.A.

A. G. Stanwell, M.Inst.R.A.

C. J. Barker, A.R.I.B.A.

D. R. Stewart, A.R.I.B.A.

### LCC Housing

SIR.—It is not criticism of the LCC flats that I wish to draw attention to, but to the deplorable site layout of one particular estate illustrated in the JOURNAL for March 17.

The Flower House site at Lewisham consisted of an old house of comfortable dimensions confronted with a circular lawn, the whole surrounded by a belt of woods. A stream runs through the site just inside the eastern boundary.

LCC site plans completely ignored the existing amenities and future possibilities. Trees gave way to uninspiring blocks, and the lawn to concrete yards reminiscent of the tenements of former London.

Cannot the LCC leave at least the site treatment to more inspired individuals even if the structures remain as depressingly mediocre?

Brigstock, nr. Kettering

R. W. REEVE

SIR.—Some local authority housing schemes by private architects are not given the attention they really need in the design stage, because the size of fees makes more thorough design (in the widest sense) uneconomic. Now we were told recently by a county architect that his council halved their architectural expenses by employing full-time staff. It would seem then that the Director of Housing and Valuation (astonishing title!) could afford, not only to abandon old stock plans, but to spend more time than a private architect on research and design than results would appear to indicate. (I notice, for instance, that some flats in adjoining blocks face opposite directions.)

Any such extra time spent on research might, I suggest, reveal that balcony access (for one thing) is only just defensible where only bathrooms and kitchens face an access balcony where other tenants must pass.

Even so, as Messrs. Shankland, Boyd & Co., in their letter published in the JOURNAL for March 24, seem to imply; if we can afford the best obtainable guns for sending people into the next world, surely we can afford the best obtainable flats for people hoping to remain in this. More specifically—dual or triple access for any flats with two or more bedrooms housing families with children.

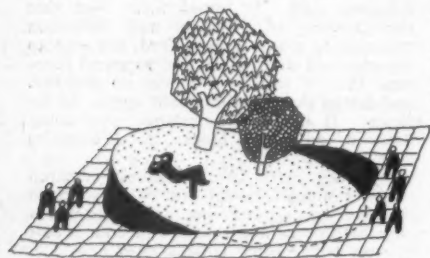
London

J. B. CARTER

SIR.—At the close of the JOURNAL's revealing article: "The Need for a Critical Assessment," it is suggested that a comparison be made with housing work by other authorities. Attention might be drawn to the series, "Towards an Architecture," in the *Architectural Review*, especially the first article in the October number of last year, "Post War Housing in Britain," which has many helpful illustrations. One might be tempted to query the statement: "A hopeful balance of 'freedom' in accommodation has been struck. In this the architect is one jump ahead of official-

<sup>\*</sup>"Country Cottages," by Marshall Sisson, F.S.A., F.R.I.B.A. Methuen & Co., Ltd. 6s.

## RESTORATION OF A LONDON SQUARE



The news that gardens in several London squares are to be opened to the public was followed last week by the official opening of Hanover Square gardens. The picture above shows the disappointing result of the restoration, which was carried out by Messrs. Sunleys (London) Ltd., on behalf of the frontage owners. The layout is in the ornamental municipal park style, and although the Londoner will welcome this patch of greenery there is little in the Square to attract him. An imaginative use of shrubbery, low walls or changes of level, and an intelligent arrangements of paths, could have transformed these two acres into a landscape both attractive and functional. On the left are two drawings by Gordon Cullen, recently published in *The Architectural Review*, designed to illustrate possible treatments of similar sites. One shows a "change of level" treatment applied to the area around the statue of William III in St. James's Square, and the other shows the use of this system as a means of obtaining visual effect and acting as a substitute for railings.

dom and of public opinion." In the case of the low level LCC housing it would seem that the LCC valuer is a jump "to one side" of the architect and is not heading very comfortably "towards an architecture" at all.

"Whatsoever things are true . . . and of good report" advised St. Paul, "think on these things." Very well . . . Some justified bouquets are handed out in this article to the more excellent council houses. However, I feel constrained by my own experience to endorse the sentiment: "Public opinion already demands more daylight and a better orientation of living quarters for sunlight—tending to dispose of the custom that the front of the house must face the street." Surely this reasonable rule should apply even more strongly to blocks of flats. Adherence to this one simple rule would help break up the monotony of "cliff" after "cliff" of access balconies.

It is indeed a pleasure to see the revival

of the well designed, traditionally English, terrace form, although some local authorities seem loath to leave that other form of monotony—semi-detachment. The development of sound-proofing methods form one reason for this revival. Other advantages are clearly pointed out on the sunshine tinted pages of the *Architectural Review*. And lastly, too much social and technical attention can hardly be paid to the refreshing and inspiring examples of such districts as Warminster and Westbury, Stratton (Cornwall), Rickmansworth, Abingdon, Berkshire, Hitchin, Worthing, Downham, and others equally commendable.

Again, could not some authorities demonstrate actively that "hopeful balance of freedom" by combining reasonable terraces of flats with two storey terraces of houses? The kind of thing recalled to mind is illustrated on plates 34 and 35 of that excellent Report by the Scottish Housing Advisory Committee (HMSO, price 3s. 6d.). It is well

entitled: "Planning Our New Homes," and the sketches referred to "give an impression of some of the possibilities in design, grouping and layout envisaged in the Report."

These points are re-echoed in the hope that they may be of some inspiration to the architect (private or official) who has the exciting opportunity of making or marring "the next available site."

Beckenham

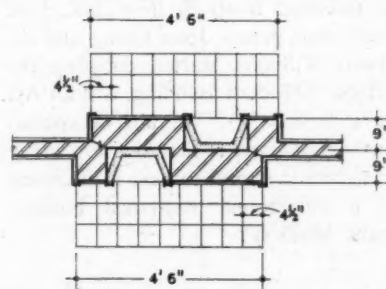
A. G. STANWELL

## Fireplace Design

SIR,—I notice in the *JOURNAL* for January 27, on page 101, that in the house at Bishop's Stortford there is a departure from the normal 14-in. fireplace opening by arranging two fireplaces on an internal wall with openings 9 in. deep only—in this way having a chimney breast projecting a bare 7 in. into the room and so saving floor space, though as shown, necessitating placing the grate out of centre in the breast. One good point is that there is 9 in. of brickwork immediately behind the fireback, as it is at the back where the heat is most intense, but there is 4½ in. laterally as shown in my ½-in. scale enlargement. In each of the fireplaces there is, therefore, a danger point which is shown by a line. The fire openings are apparently 18 in. by 9 in. deep and will take the average 15 in. size fireback with no room to spare. That gives no space for convection heating should it be required, and means that the fireback fits tightly in the opening, whereas in the normal 22½ in. by 13½ in. opening there is room either for convection arrangements or a packing of insulation material around the fireback, avoiding the cracking due to too tight a fit and very materially increasing the radiant heat value of the fire.

CHARLES J. BARKER

Tiddington, Stratford-on-Avon



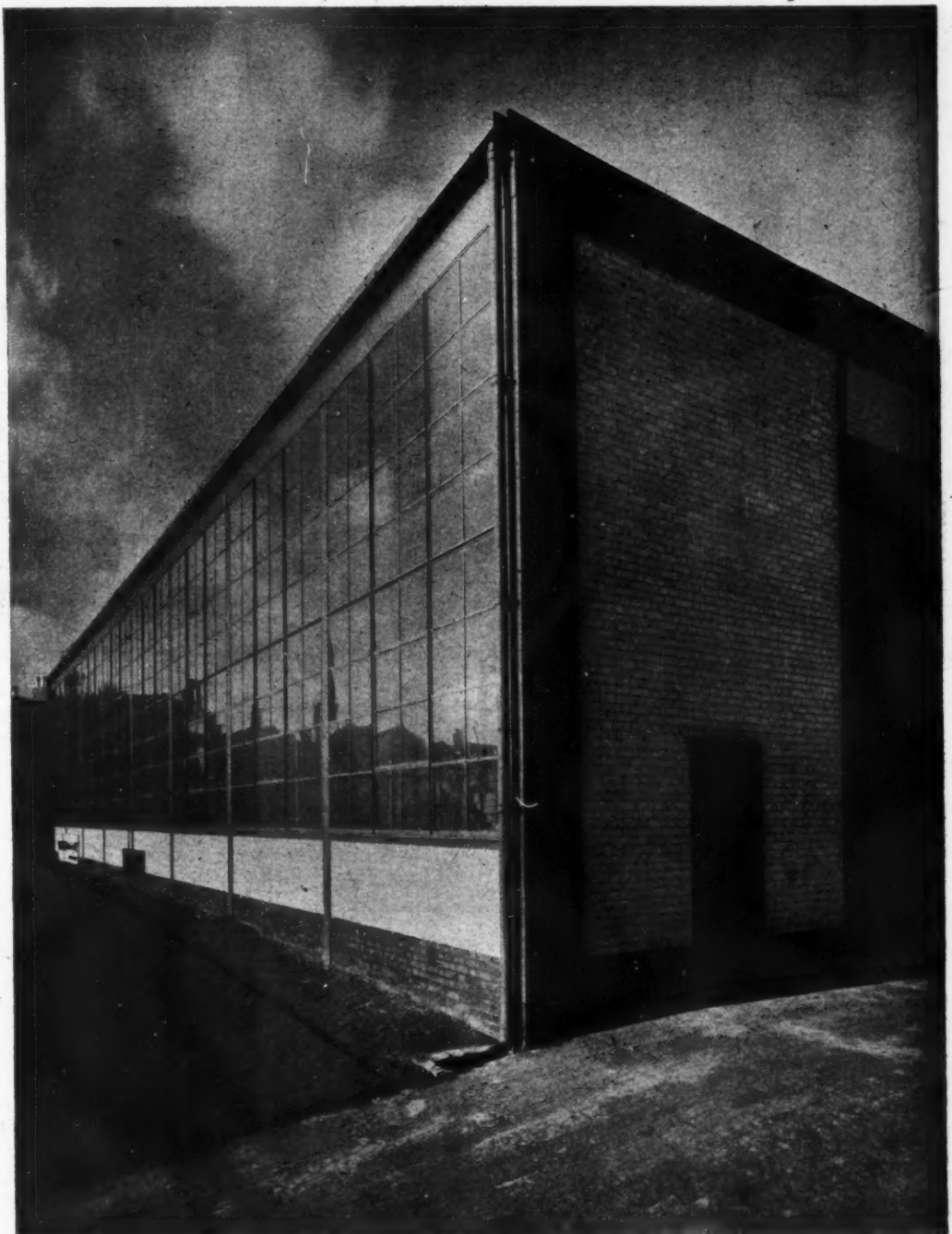
Drawing by Mr. Barker of fireplace referred to in his letter above. The designer's reply is printed below.

SIR,—Mr. Barker is right in thinking that this particular arrangement of the fireplace openings was chosen to save floor space; in a house so restricted in size, space is of primary importance. But the danger-point he mentions was not overlooked. Each brick opening was shaved slightly to allow an easy fit for the fireback, and the triangular spaces left at the inner corners were filled with insulating material. So there is 9 inches of brickwork, or brickwork and insulation, surrounding each opening.

Convected air warming of bedrooms certainly requires a completely different arrangement, but was not required in this instance.

The placing of the openings in the chimney breast involves a wider issue. Mr. Barker, I am sure, appreciates that asymmetry can always be justified if it underlines the rational basis of design. Here, each opening is in the exact centre of the room, where it best serves the most usual grouping of the chairs.

DONALD R. STEWART



View from  
the south

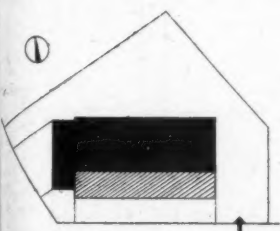
# INDUSTRIAL BUILDINGS

BY RUDOLF FRANKEL

## I. WORKSHOP AT BIRMINGHAM

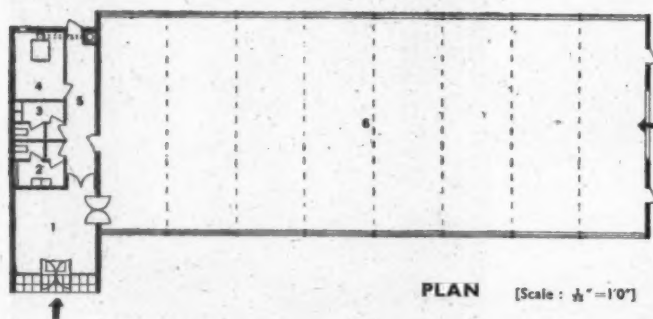
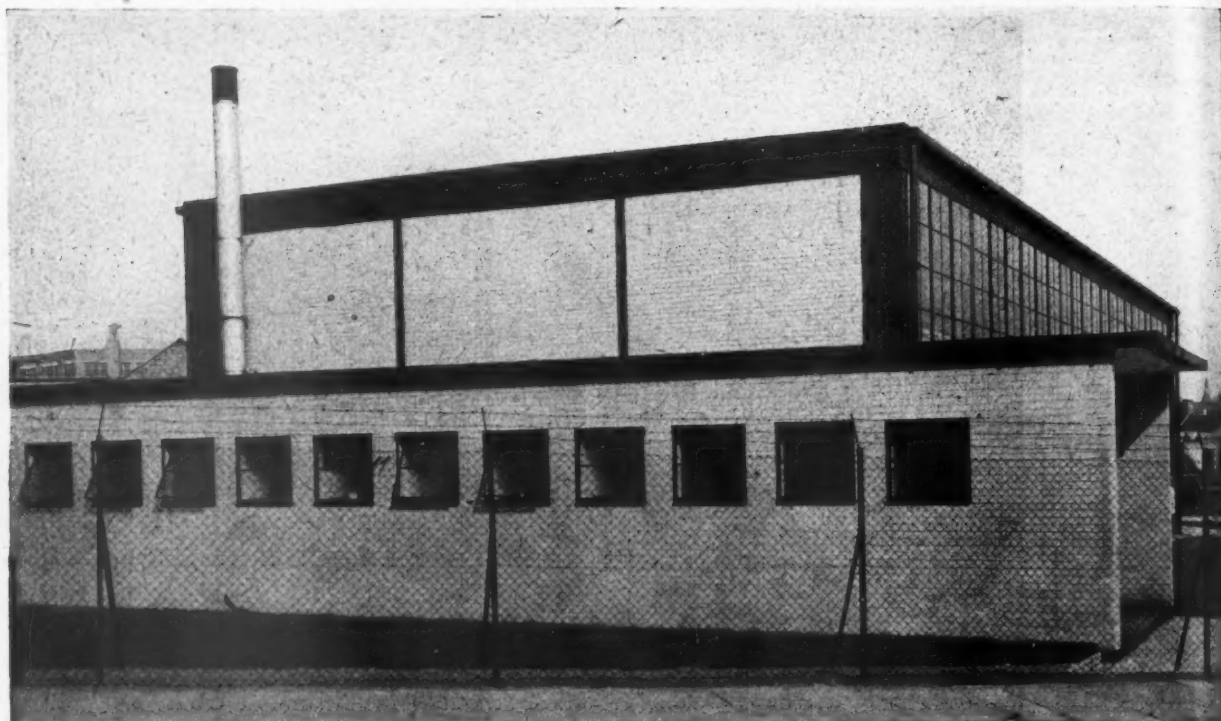
GENERAL.—Erected on a corner site near the centre of Birmingham, this building houses an organization servicing and selling machine tools. It was specifically designed for engineering needs, and the plan allows for future extension; an additional bay will have a

(continued on page 342)



SITE PLAN

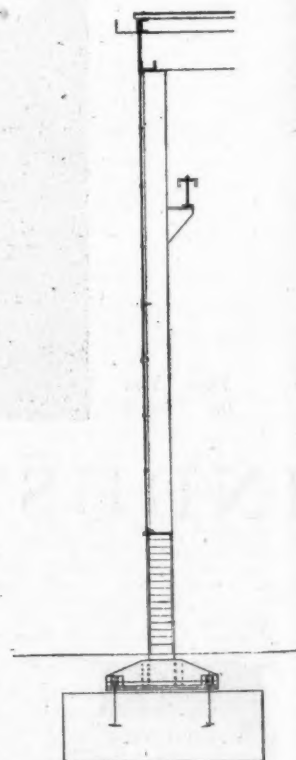
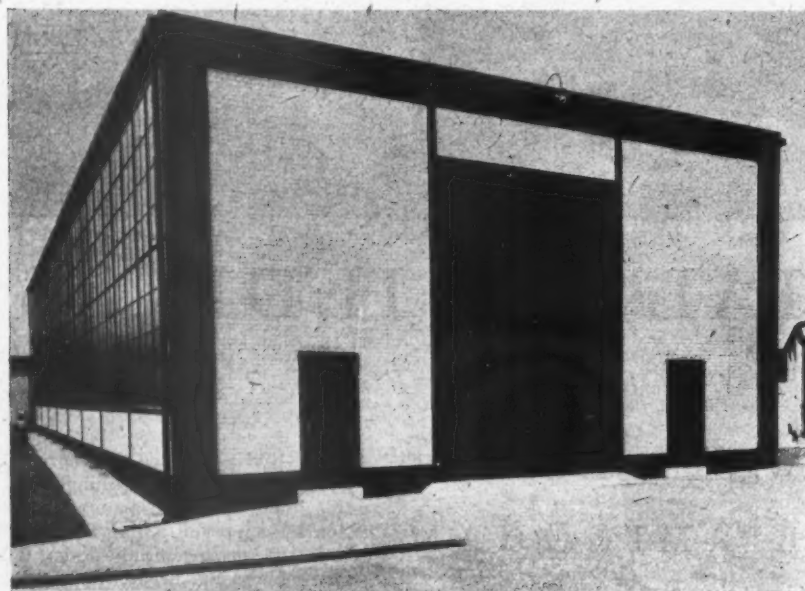




- KEY TO PLAN:
- 1. Entrance Hall.
  - 2 and 3. Toilets.
  - 4. Boiler Room.
  - 5. Corridor.
  - 6. Workshop.

PLAN [Scale:  $\frac{1}{8}$ "=1'0"]

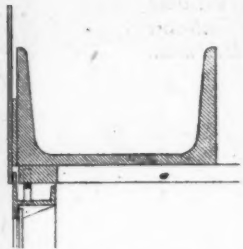
*Above, from the west; below, from the north-east showing the lorry entrance to workshops.*



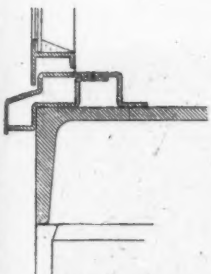
SECTION: MAIN WALL

W O R K S H O P      A T      B I R M I N G H A M

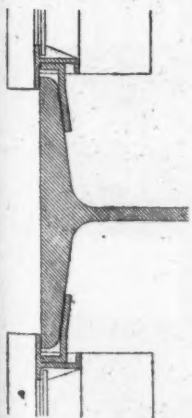




**DETAIL AT WINDOW HEAD**  
[Scale:  $\frac{1}{2}$  full size]



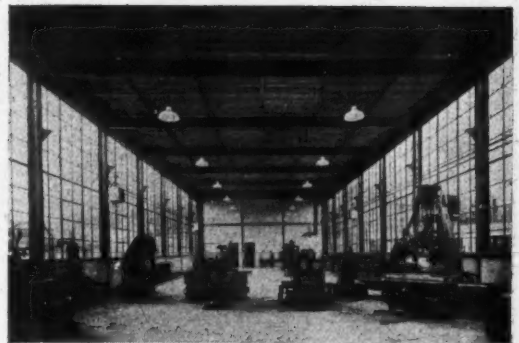
**DETAIL AT SILL**  
[Scale:  $\frac{1}{2}$  full size]



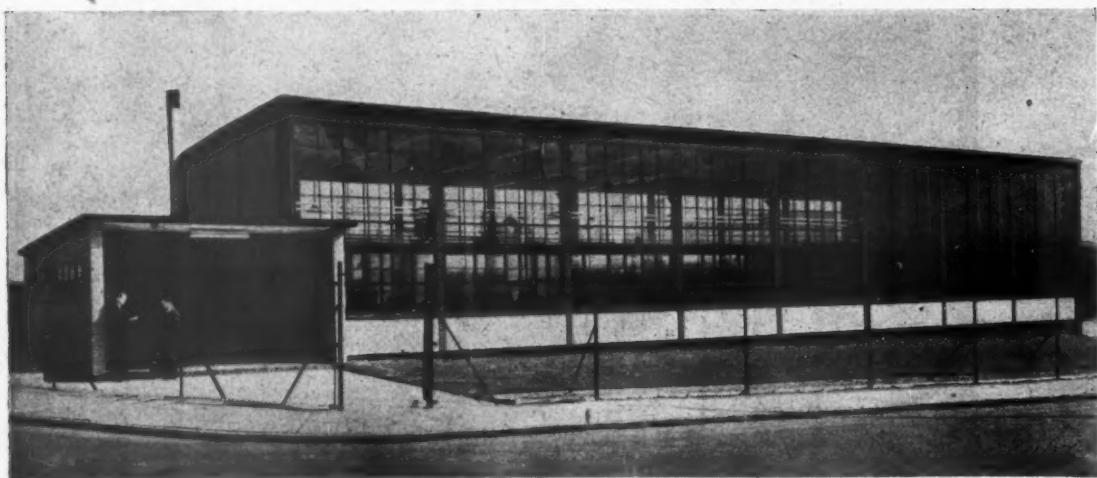
**PLAN OF WINDOWS AND STANCHION**  
[Scale:  $\frac{1}{2}$  full size]



*Above, interior of workshop showing the position of the bus-bars below window sill. Right, general view.*



DESIGNED BY RUDOLF FRANKEL

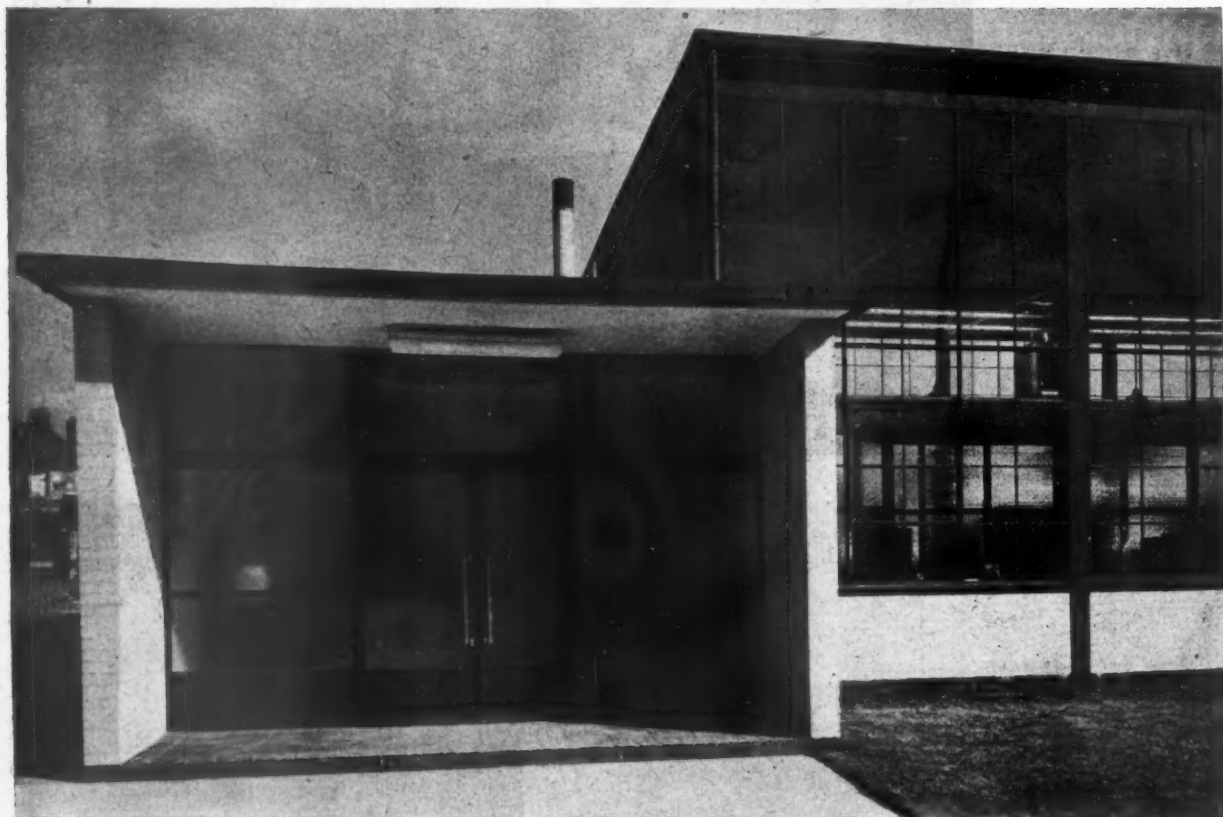


gallery of steel partitioned offices.

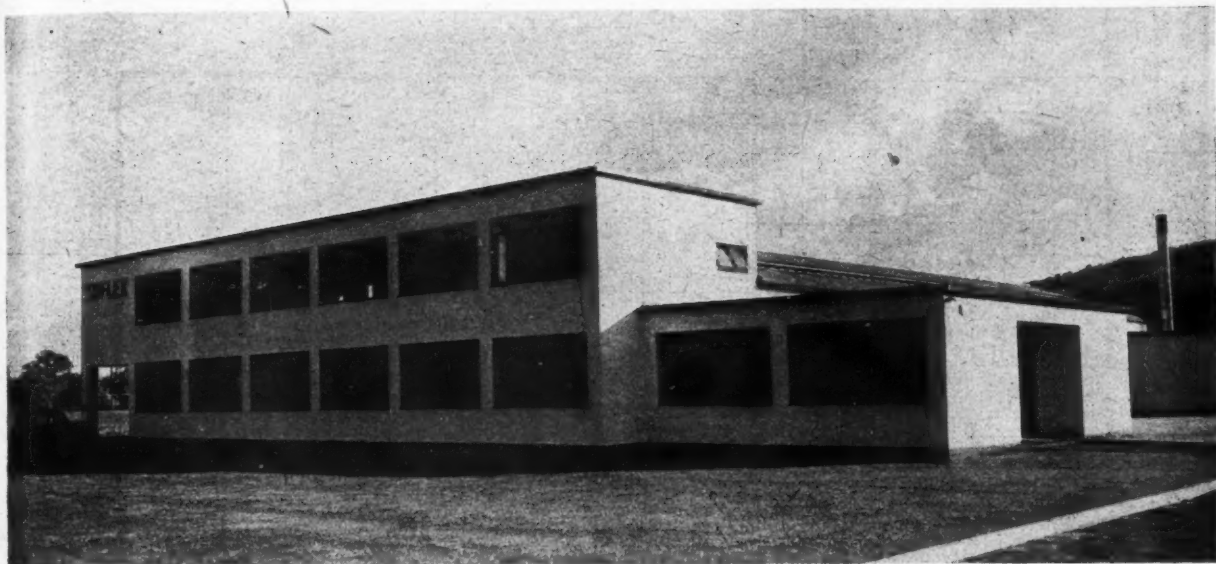
**CONSTRUCTION** — Construction is steel frame, with 9-in. white-faced brick panels, no frame bolts being visible. Corner plates are spot welded; fascia plates are clipped, as are the metal windows to stanchions. Bus-bars running under window sills provide power contact wherever required. The roof is of steel deck, painted inside

with aluminium paint. All steel-work, inside and out, is painted greyish blue; the steel chimney is aluminium painted. The lower wing contains entrance hall, cloak-rooms, and the boiler house for central heating. Lorries can drive straight into the building for unloading by a five-ton crane. The general contractors were Messrs. Wm. Sappcote & Sons. For list of sub-contractors see page 352.

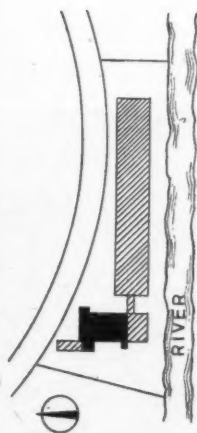
*Above, from the south-west, showing the main entrance and workshops. Below, main entrance.*



W O R K S H O P   A T   B I R M I N G H A M



## 2. FACTORY AT RISCA, SOUTH WALES BY RUDOLF FRANKEL



**SITE PLAN**

[completed section shown in black]

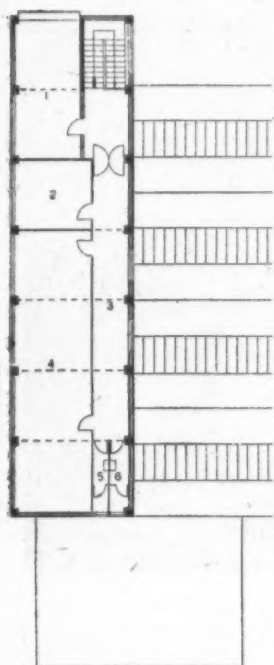
**GENERAL.**—Built for the manufacture of cables, this factory is the first part of a comprehensive industrial estate planned at Risca, South Wales. The whole scheme will cover a site of over 5 acres, but only the section shown has been completed, comprising offices, laboratories, and the plastics manufacturing section. Future sections to be built for other processes will contain canteens and other amenities, and will be connected with

the existing building by a covered gangway.

**CONSTRUCTION.**—Construction is of steel frame divided into 20-ft. and 40-ft. bays, the roof being covered with asbestos and lined with insulating board. The two-storey front building containing offices and cloakrooms, has brick piers and precast reinforced concrete floors and roof; walls are of 4-in. concrete blocks, rendered and painted. The factory floor is of



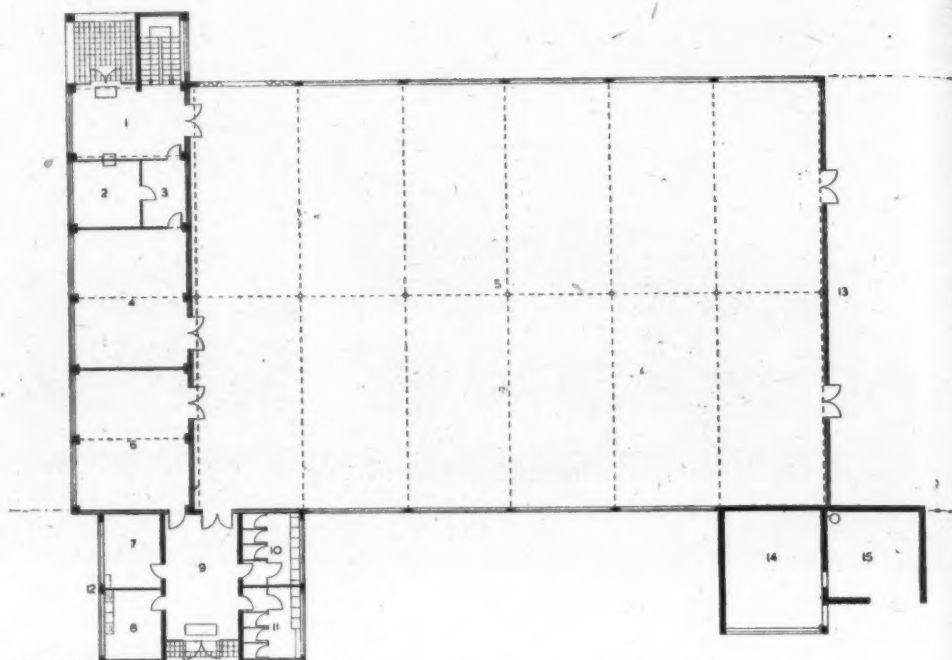
*Above: offices and cloakrooms from the north-west; right, interior of the manufacturing area.*



FIRST FLOOR PLAN

KEY : FIRST FLOOR PLAN

- 1. Office space.
- 2. Manager.
- 3. Corridor.
- 4. Laboratory.
- 5 and 6. Toilets.



GROUND FLOOR PLAN [Scale:  $\frac{1}{4}$ " = 1']

KEY : GROUND FLOOR PLAN

- 1. Entrance Hall.
- 2. Reception.
- 3. Waiting Room.
- 4 and 6. Workers' Lockers.
- 5. Workshop.
- 7. First-aid Room.
- 8. Tea Kitchen.
- 9. Workers' Entrance.
- 10 and 11. Toilets.
- 12 and 13. Future Extensions.
- 14. Boiler House.
- 15. Coal Bunker.



DETAIL OF STANCHION  
[Scale:  $\frac{1}{4}$ " = 1' 0"]

*Reception room in  
the office building.*

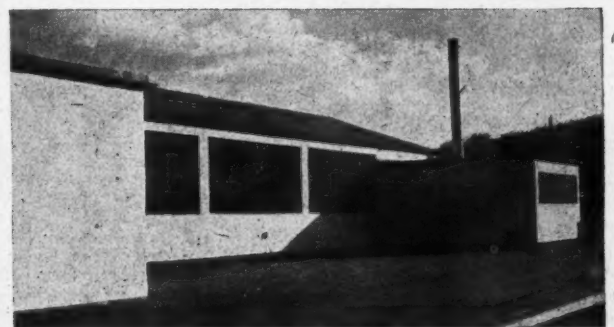
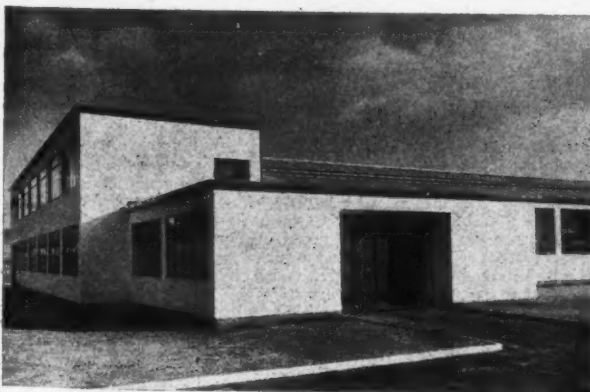
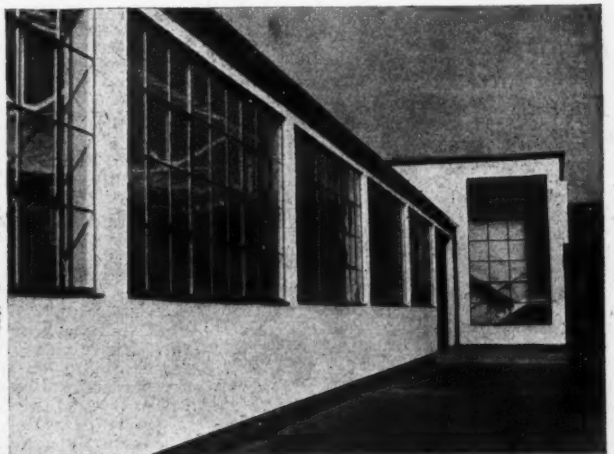


Right, interior of the manufacturing area. Below: four views of the exterior; top left, from the north-east; top right, from the south-east; bottom left and right, views from the north-west.

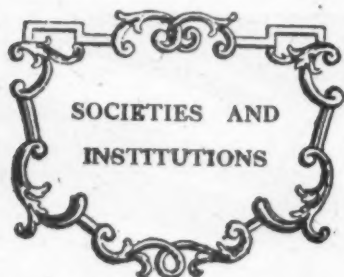


reinforced concrete, granolithic finished; office floors are asphalt paving; entrance hall and staircase are of light cream terrazzo tiles. Ceilings are white, interior steelwork and walls painted cream,

and doors blue. The folding gate is sufficiently large to allow lorries to enter the factory. The general contractors were Messrs. T. F. Howells Ltd. For list of sub-contractors see page 352.



DESIGNED BY RUDOLF FRANKEL



*Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their initials—see front cover. Lectures cannot usually be reported in full, but the extracts given are in the speaker's own words.*

TPI

## Thomas Sharp

April 7. At Caxton Hall, Westminster. Extracts from a lecture by Thomas Sharp on VILLAGE DESIGN.

**Thomas Sharp:** The village in the past has always had its economic roots in the land immediately surrounding it, or occasionally in the sea at its doors. The agricultural and the fishing settlement, but especially the first, have all the quintessential character which the word "village" commonly calls before our mind's eye, though there is no reason why even the mining village, which is in almost every physical respect the direct antithesis of these, should not also, if it had developed in a different age, have been almost identical with them. Now the point about the agricultural villages, for my purpose at the moment, is that it is, or at least was, a comparatively simple social organization. Its purpose was to house the people who worked on the surrounding land and, of course, their dependents—these, basically, but also, necessarily, those others who served them in various ways, whether as parson, publican, craftsman or shopkeeper. The social structure of the village was therefore extremely simple. The shared interests, and (in the case of the fishing village especially) the shared dangers, together with the clear simplicity of the social structure, produced a community which was comparatively simple in its inter-relationships and comparatively single-minded in its purposes.

From this fact of being economically tied to the surrounding countryside, and wholly dependent on it, there arose another quintessential characteristic of the village. Because of the small volume of labour required in agricultural activity and because there were, until recently, strict and narrow limits to the distance which workers could conveniently travel between home and work,

the village has hitherto been comparatively small in size.

Here, then, we have two outstanding social characteristics of the traditional village—simplicity and smallness. Now I think it is those characteristics that broadly determined its physical appearance. A simple social structure produced a simple material form; the simple social structure subsisted because of singleness of purpose and the simple material form subsisted because of smallness of size.

At this point I find myself forced to attempt to define what I mean by a village, and to do this it is necessary also to consider what is the difference between a village and a small town. If the social structure of the community becomes complicated by the taking on of activities outside the basic activity, then one of the essential characteristics of the village becomes compromised, and the place becomes the less of a true village in proportion to the degree of additional activity which it undertakes. This is, indeed, the difference between the true village and the small country town. Though the small country town may house many people who work on the land, it is also a market, a trading centre, for far more than its own inhabitants; it will probably also be a manufacturing centre in a small way.

The further point of difference lies in mere size. As a place becomes more complicated in its activities, so generally, though not inevitably, it tends to grow bigger. This necessarily brings about complexity in its physical form. But size in itself, even without complexity of activity, is a deciding factor. Even a purely agricultural settlement that was very large would be almost bound to have complexity of form. And that complexity, I believe, is alien to true village character. It is the village of about 300-450 inhabitants (the commonest size), that holds the quintessential spirit of the true English village. Above this size the form begins to get complicated, and at a population of more than about 1,000 the complication becomes so marked that true village character becomes increasingly compromised and soon disappears altogether.

### SIMPLICITY OF FORM

I have been speaking of simplicity of form as being an essential attribute of village character. I must try to define that more particularly, though it is rather difficult to do so in words. First of all let us take the meaning of simplicity. It means "consisting of one element, being all of a kind, not being complicated or elaborate or adorned, or involved or highly developed; plain in appearance or manner, unsophisticated." The attributes of consisting of one element, of being all of a kind, I have clearly enumerated. The rest are clearly to be seen in almost all the ten thousand and more villages and hamlets which England is said to possess.

They are especially to be seen in the outline form, the ground plan. This ground plan is so simple that it is immediately apprehensible to anyone who sees it. There are, for the main part, two broadly distinguishable types of plan, though of course a great many villages display something of the characteristics of both types in one. There is the roadside or linear type, and there is the squared or enclosed type; the first type being commoner in the south of England, and the second, no doubt for historical reasons which I need not go into now, being more frequent in the north. The one is a short ribbon; the other is a kind of knot or blob. In neither case does the simplicity lie in regularity. On the contrary the form is nearly always irregular, sometimes markedly so, but in spite of the irregularities, simplicity remains because generally the outline stands together as a single whole, or in some examples the parts are wholes in themselves; that is to say there are no distracting competing elabora-

tions of certain elements such as bring complexity into the picture. I know that all this sounds a very complex way of analysing simplicity, so I will not go any further into it now. But I should like to emphasize again what I have already said, that one of the essential characteristics of the ground plan of the true village is that its outline pattern is immediately apprehensible.

But, at the same time, though it may sound like a contradiction in terms, there are nearly always certain subtleties of detail within the simplicity of outline. Even in the elementary form of the roadside village the siting of the main village buildings is such that striking pictorial qualities result. The church will generally be at a turn of the road, or right at the head of the village street, dominating it. A manor house, a group of almshouses, a tithe barn, an inn, or some other building will be so situated as to create a particular effect within the general picture. The frequency with which this happens is astonishing. Why it happens it is difficult to say. I believe that there are historical explanations of it other than blind chance. But I cannot say more than that now. It must suffice for my purpose here merely to make the point—which, of course, you already know very well.

### SOCIAL PSYCHOLOGY

And here there is another essential point with regard to physical form which I must make, a point which has architectural importance, but still greater importance and significance in social psychology. In almost every single English village that I know, the road plan within the village declares the existence of the village as a place, a significant point, a local climax, the home of a community. In all the thousands of villages throughout the country, by virtue of some slight curve or some sharp twist within the village or at its extremities, the roads seem to enter and leave the village, rather than merely push it aside as they seem so often to do in other countries. Here again there are probably historical reasons which I have not time to go into. I ask you simply to remember the fact and to give it its due significance. The significance cannot, I think, be over-emphasized. The views into the village are closed. In other words, it is the village that is vital, that exists in its own right. The roads that centre upon it are essentially a means of going out and coming in, not merely of passing through.

Thus, in spite of certain subtleties of effect, there is, I must repeat, an essential simplicity about the outline form of the traditional village. And so there is about the details within that outline form. The simplicity of the outline is generally strengthened rather than weakened by the subsidiary elements. This occurs sometimes in a negative rather than a positive way, by omission rather than by design, but is none the less vital for that. The most important example of this is the absence of subsidiary enclosures which would confuse the simplicity of the main enclosure made by the buildings. This is particularly illustrated in the absence of enclosed front gardens. Villages do, sometimes, have enclosed front gardens, but they never seem to hold the essential spirit and quality of the true village. It is astonishing to modern eyes, which have become accustomed to suburbanism, that the enclosed front garden is uncommon in a village. But it is so. The houses nearly always front straight on to a green, or, in the roadside villages, straight on to a public path with only a narrow strip of earth between, a few inches wide, where a few modest cottage flowers, artlessly arranged, soften the hard line between plinth and path. And it is the same with other features. The village green, the trees, the pond, and the rest of the common features, are never elaborately arranged or highly developed in some complicated relationship to each other and

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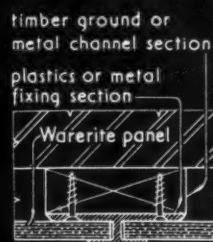
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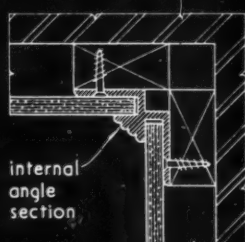


**SHEET MATERIALS | PLASTICS | APPLICATIONS****15.T1**

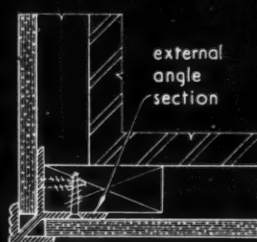
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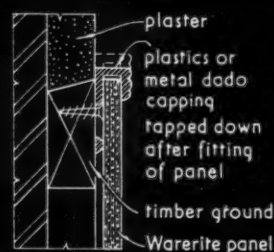
straight joint



internal corner joint

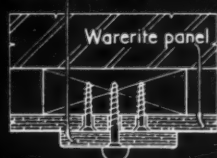


external corner joint

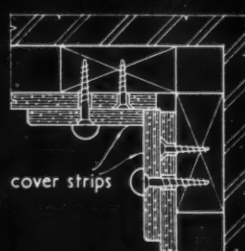


dado capping

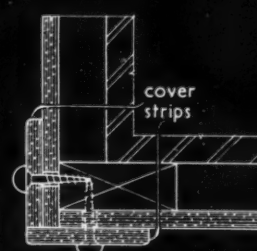
DETAILS SHOWING USE OF PLASTICS OR METAL JOINTING SECTIONS.

Waverite cover strip  
fixed with decorative  
headed screws

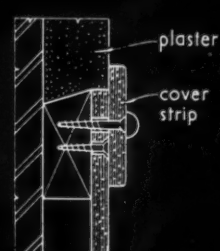
straight joint



internal corner joint

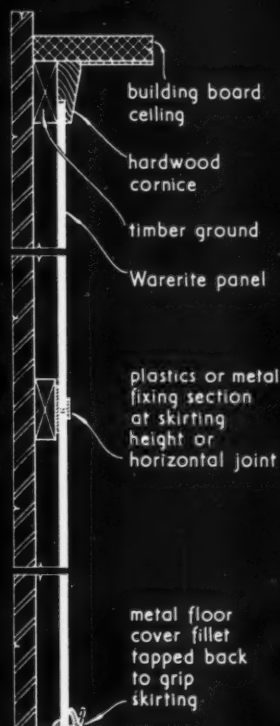


external corner joint

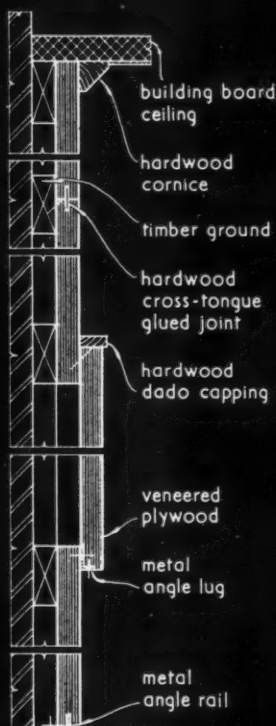


dado capping

DETAILS SHOWING USE OF WAPERITE COVER STRIPS FOR JOINTS.

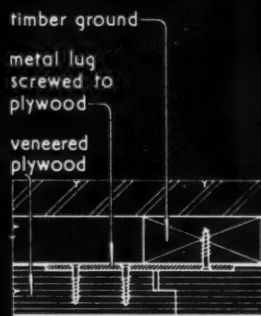


WAPERITE PANELS.

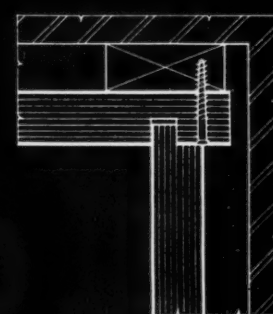


VENEERED PLYWOOD.

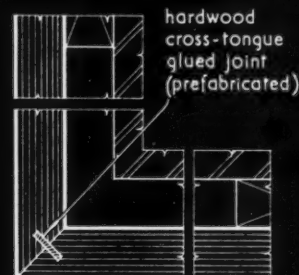
SKIRTING, DADO AND CORNICE DETAILS.



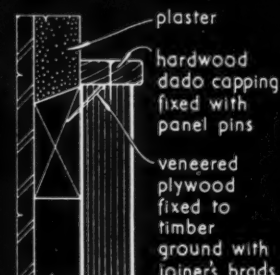
straight joint



internal corner joint



external corner joint



dado capping

DETAILS SHOWING METHOD OF  
SECRET FIXING.

## 15.T1 ·WARERITE· LAMINATED PLASTICS : WALL COVERINGS

This Sheet describes the use of Warerite laminated plastics in the forms of veneered boards and panels and illustrates their uses as wall coverings. Sheet 15.S1 describes the characteristics of the materials and gives the colour range in which they are available. Sheet 15.T2 illustrates the uses of veneered boards and panels for shop counters, table tops and doors.

### Veneered Plywood

*Skirting, dado and cornice :* In the lower centre detail the skirting, dado and wall are of veneered plywood secret-nailed to timber grounds. The cornice and dado cappings are of hardwood and the joint at the junction of the floor and skirting is made with a metal angle rail, the flange of which fits in a groove in the plywood.

### Secret Fixings

*Straight joint :* The detail shows a butt or straight joint secretly fixed to the timber grounds. The metal lug on the left-hand panel is screwed to the grounds before the right-hand panel is placed in position.

*Internal corner joint :* The adjacent panels are tongued and grooved and the grooved panel is screwed to the timber grounds before the other panel is fitted into position.

*External corner joint :* The adjacent panels are fixed together by means of a hardwood cross-tongue ; no actual fixing to the grounds is necessary.

*Dado capping :* The detail shows the treatment at the junction of a dado and plastered wall.

### Panels

*Skirting and wall :* In the lower left-hand detail the skirting and wall are of Warerite panel fixed at floor and top of skirting (or at horizontal joint) with plastics or metal sections and at ceiling with a hardwood cornice.

### Plastics or Metal Jointing Sections

*Straight joint :* In this detail the wall panel is fixed with a plastics or metal H section.

*Internal corner joint :* A plastics or metal angle section is screwed to the timber grounds to receive the wall panel.

*External corner joint :* The method shown is similar to that for the internal corner joint.

*Dado capping :* The fixing section is made with vertical slot holes and is tapped down into position after fitting the panel.

### Warerite Cover Strips

All screws should be fixed through over-size holes as shown to allow for some freedom of movement of the panels.

*Straight joint :* In this detail strips of panel are used to cover the joints; the exposed screws are fitted with decorative heads.

*Internal corner joint :* Cover strips of panel are butted at the angle and fixed similarly to the straight joint.

*External corner joint :* The method shown is similar to that for the internal corner joint.

*Dado capping :* In this detail the cover strip is fixed slightly above the panel to form a check for the plaster.

### Trade Name

This is a proprietary material manufactured under the trade mark ·Warerite·.

Compiled from information supplied by :

Warerite Limited (Unit of Bakelite Limited).

Address : Ware, Herts.  
Telephone : Ware 502.




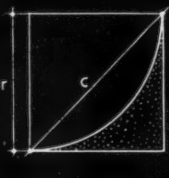

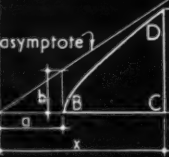

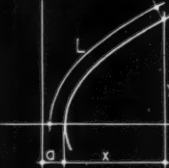

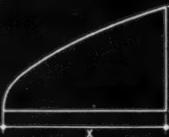

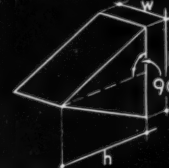
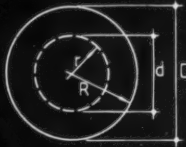

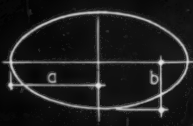
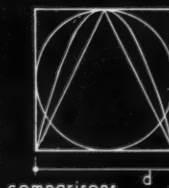




## BUILDING SCIENCE | MENSURATION

2.HI

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 <p>circle</p>	<p>A = area C = circumference  <math>A = \pi r^2 = 3.1416 r^2 = 0.7854 d^2</math>  <math>C = 2 \pi r = 6.2832 r = 3.1416 d</math>  <math>r = C \div 6.2832 = \sqrt{A \div 3.1416} = 0.564 \sqrt{A}</math>  <math>d = C \div 3.1416 = \sqrt{A \div 0.7854} = 1.128 \sqrt{A}</math>  length of arc for centre angle of <math>1^\circ = 0.008727 d</math>  length of arc for centre angle of <math>n^\circ = 0.008727 n d</math></p>	 <p>spandrel or fillet</p>	<p>A = area  <math>A = r^2 - \frac{\pi r^2}{4} = 0.215 r^2</math>  <math>= 0.1075 c^2</math></p>
 <p>sphere</p>	<p>V = volume: A = area of surface  <math>V = \frac{4 \pi r^3}{3} = \frac{\pi d^3}{6} = 4.1888 r^3 = 0.5236 d^3</math>  <math>A = 4 \pi r^2 = \pi d^2 = 12.5664 r^2 = 3.1416 d^2</math>  <math>r = \sqrt[3]{\frac{3V}{4\pi}} = 0.6204 \sqrt[3]{V}</math></p>	 <p>hyperbola</p>	<p>A = area BCD  <math>A = \frac{xy}{2} - \frac{ab}{2} \log_e \left( \frac{x}{a} + \frac{y}{b} \right)</math></p>
 <p>circular ring</p>	<p>A = area  <math>A = \pi (R^2 - r^2) = 3.1416 (R^2 - r^2)</math>  <math>= 3.1416 (R + r) (R - r)</math>  <math>= 0.7854 (D^2 - d^2) = 0.7854 (D + d) (D - d)</math></p>	 <p>parabola</p>	<p>L = length of arc  <math>L = a \left[ \sqrt{\frac{x}{a} \left( 1 + \frac{x}{a} \right)} - \log_e \left( \sqrt{\frac{x}{a} + 1} + \sqrt{1 + \frac{x}{a}} \right) \right]</math>  when x is small in proportion to y the following is a close approximation  <math>L = y \left[ 1 + \frac{2}{3} \left( \frac{x}{y} \right)^2 - \frac{2}{5} \left( \frac{x}{y} \right)^4 \right]</math> or <math>L = \sqrt{y^2 + \frac{4}{3} x^2}</math></p>
 <p>cylinder</p>	<p>V = volume: S = area of cylindrical surface  <math>V = 3.1416 r^2 h = 0.7854 d^2 h</math>  <math>S = 6.2832 r h = 3.1416 d h</math>  total area A of cylindrical surface and end surfaces:  <math>A = 6.2832 r (r + h) = 3.1416 d \left( \frac{1}{2} d + h \right)</math></p>	 <p>parabola</p>	<p>A = area  <math>A = \frac{2}{3} xy</math>  the area is equal to two thirds of the rectangle which has x for its base and y for its height</p>
 <p>cone</p>	<p>V = volume: A = area of conical surface  <math>V = \frac{3.1416 r^2 h}{3} = 1.0472 r^2 h = 0.2618 d^2 h</math>  <math>A = 3.1416 r \sqrt{r^2 + \frac{d^2}{4}} = 3.1416 r s = 1.5708 d s</math>  <math>s = \sqrt{r^2 + \frac{d^2}{4}} = \sqrt{\frac{d^2}{4} + h^2}</math></p>	 <p>wedge</p>	<p>V = volume  <math>V = \frac{1}{2} b h w</math></p>
 <p>hollow sphere</p>	<p>V = volume  <math>V = \frac{4 \pi}{3} (R^3 - r^3) = 4.1888 (R^3 - r^3)</math>  <math>= \frac{\pi}{6} (D^3 - d^3) = 0.5236 (D^3 - d^3)</math></p>	 <p>cycloid</p>	<p>A = area  L = length of cycloid  <math>A = 3 \pi r^2 = 9.4248 r^2 = 2.3562 d^2</math>  <math>= 3 \times \text{area of generating circle}</math>  <math>L = 8 r = 4 d</math></p>
 <p>ellipse</p>	<p>A = area: P = perimeter or circumference  <math>A = \pi ab = 3.1416 ab</math>  an approximate formula for the perimeter is -  <math>P = 3.1416 \sqrt{2(a^2 + b^2)}</math>  a closer approximation is -  <math>P = 3.1416 \sqrt{2(a^2 + b^2) - \frac{(a-b)^2}{2.2}}</math></p>	 <p>comparisons</p>	<p>if d = base diameter and height of a cone, a paraboloid and a cylinder and the diameter of a sphere then the volume of these bodies are to each other as below</p> <p>cone: paraboloid: sphere: cylinder</p> <p><math>\frac{1}{3} : \frac{1}{2} : \frac{2}{3} : 1</math></p>

## 2.H1 CHARACTERISTICS OF COMMON GEOMETRICAL FIGURES

This Sheet describes the characteristics of common geometrical figures and tabulates the areas of a selected range of circles according to diameter. A subsequent Sheet will include a further range of geometrical figures.

1/16 in. to 1 in. in 1/16 in. Increments

Dia., in.	Area, sq. in.	Dia., in.	Area, sq. in.
1/16	0.00307	3/8	0.24850
1/8	0.01227	7/8	0.30530
3/16	0.02761	1 1/8	0.37122
1/4	0.04909	1 1/4	0.44179
5/16	0.07670	1 3/8	0.51849
3/8	0.11045	1 1/2	0.69132
7/16	0.15033	1 5/8	0.69029
1/2	0.19635	1	0.78540

1 1/16 in. to 6 in. in 1/16 in. Increments

Dia., in.	Area, sq. in.	Dia., in.	Area, sq. in.
1 1/16	0.9940	3 1/8	10.321
1 1/8	1.2272	3 1/4	11.045
1 1/4	1.4349	3 3/8	11.793
1 1/2	1.7671	4	12.566
1 5/8	2.0739	4 1/8	13.364
1 3/4	2.4053	4 1/4	14.186
1 7/8	2.7612	4 3/8	15.033
2	3.1416	4 1/2	15.904
2 1/16	3.5466	4 3/4	16.800
2 1/8	3.9761	4 7/8	17.721
2 1/4	4.4301	5	18.665
2 3/8	4.9087	5 1/8	19.635
2 1/2	5.4119	5 1/4	20.629
2 5/8	5.9396	5 3/8	21.648
2 3/4	6.4918	5 1/2	22.691
3	7.0686	5 3/4	23.758
3 1/16	7.6599	5 7/8	24.850
3 1/8	8.2958	6	25.967
3 1/4	8.9462		27.109
3 1/2	9.6211		28.274

6 1/16 in. to 12 in. in 1/16 in. Increments

Dia., in.	Area, sq. in.	Dia., in.	Area, sq. in.
6 1/16	30.680	9 1/8	67.201
6 1/8	33.183	9 1/4	70.882
6 3/8	35.785	9 3/8	74.662
7	38.485	10	78.540
7 1/16	41.282	10 1/8	82.516
7 1/8	44.179	10 1/4	86.590
7 3/8	47.173	10 3/8	90.763
8	50.265	11	95.033
8 1/16	53.456	11 1/8	99.402
8 1/8	56.745	11 1/4	103.87
8 3/8	60.132	11 3/8	108.43
9	63.617	12	113.10

1 ft. to 6 ft. in 0.25 ft. Increments

Dia., ft.	Area, sq. ft.	Dia., ft.	Area, sq. ft.
1.0	0.7854	3.5	9.6211
1.25	1.2272	3.75	11.045
1.5	1.7671	4.0	12.566
1.75	2.4053	4.25	14.186
2.0	3.1416	4.5	15.904
2.25	3.9761	4.75	17.721
2.5	4.9087	5.0	19.635
2.75	5.9396	5.25	21.648
3.0	7.0686	5.5	23.758
3.25	8.2958	5.75	25.967
		6.0	28.274

7 ft. to 103 ft. in 1 ft. Increments

Dia., ft.	Area, sq. ft.	Dia., ft.	Area, sq. ft.
7	38.485	54	2290.2
8	50.265	55	2375.8
9	63.617	56	2463.0
10	78.540	57	2551.8
11	95.033	58	2642.1
12	113.10	59	2734.0
13	132.73	60	2827.4
14	153.94	61	2922.5
15	176.71	62	3019.1
16	201.06	63	3117.2
17	226.98	64	3217.0
18	254.47	65	3318.3
19	283.53	66	3421.2
20	314.16	67	3525.7
21	346.36	68	3631.7
22	380.13	69	3739.3
23	415.48	70	3848.5
24	452.39	71	3959.2
25	490.87	72	4071.5
26	530.93	73	4185.4
27	572.56	74	4300.8
28	615.75	75	4417.9
29	660.52	76	4536.5
30	706.86	77	4656.6
31	754.77	78	4778.4
32	804.25	79	4901.7
33	855.30	80	5026.5
34	907.92	81	5153.0
35	962.11	82	5281.0
36	1017.9	83	5410.6
37	1075.2	84	5541.8
38	1134.1	85	5674.5
39	1194.6	86	5808.8
40	1256.6	87	5944.7
41	1320.3	88	6082.1
42	1385.4	89	6221.1
43	1452.2	90	6361.7
44	1520.5	91	6503.9
45	1590.4	92	6647.6
46	1661.9	93	6792.9
47	1734.9	94	6939.8
48	1809.6	95	7088.2
49	1885.7	96	7238.2
50	1963.5	97	7389.8
51	2042.8	98	7543.0
52	2123.7	99	7697.7
53	2206.2	100	7854.0

to the rest of the village. They, too, have their subtleties, but the effects they create are essentially of the simplest kind.

These, then, are what seem to me to be the simple characteristics of that simple creation, the traditional English village. I believe that the traditional form of the village is so good for its purpose that even our new villages should be based upon it. I can well imagine that there are people who may laugh at that for sentimentality, and would design a village as a single skyscraper of flats, or as a lot of little terraces, each four or five houses long, standing at right angles to a road, with windy spaces of communal gardens between. But though they might feel superior in having flung tradition aside, they would, in this instance, be wrong. I believe that the traditional form, and especially the squared form, is the most sensible (and not merely the most attractive) form that could be devised for a communal home in the country.

### THE SENSE OF ENCLOSURE

In my belief, the sense of enclosure is important in men's habitation everywhere. And I believe that it is doubly so in the country. It may be that the satisfaction that it gives arises in part from early instincts of mutual protection against lurking dangers. But it is far more than the satisfaction of subconscious need of protection against old instinctive fears or even for protection against weather (which, incidentally, is particularly shown in the way fishing villages turn their backs to the sea). There is a deep psychological satisfaction in it. And we have to remember that the satisfaction arises in the directly opposite direction from that in which the townsman finds his in his escape to the countryside. For people in towns, where views are close-focused and canalized, an open view in a park, or along a river, can afford great pleasure through relief and contrast. But to people whose working hours are spent in the fields and the open places of the countryside, the limitation of the view by enclosure in the places where they live provides a kind of psychological refuge. I am, of course, speaking of comparative, not complete, enclosure. There will always be views of trees and fields and hills beyond a village, or down the roads that run out of it, and from rooms that look outward into the country. But even these are pleasant chiefly by way of contrast with a general sense of being enclosed within a communal home, as within the walls of one's own room. Thus, in my opinion, the enclosed form of the traditional village is still the form we should give even our new villages today.

While I am speaking of this matter of tradition in form, it may be desirable that I should go a little further and speak of the question of tradition in general. I hope that it is not necessary for me to explain at any great length that in demanding respect for well-tried traditions I am not for a moment suggesting that we should imitate the past and extend our present villages, or build our new ones to resemble the old as much as possible. There is a world of difference between learning from the past and copying from it. While, for example, we can, in my opinion, learn much from a study of the plans of old villages that will enable us to establish principles as to how particular effects can be obtained by certain broad forms and by their interplay upon one another; and while, further, we may establish, as I think we can, that "free" planning will enable us to obtain something like true village character, it would, nevertheless, be utterly mistaken of us to attempt to create by conscious design the detailed effects of irregularity which have arisen out of the absence of conscious design. I do not, of course, suggest any such thing. On the contrary, I think that our new villages, and even our village extensions and in-fillings, while they should contain all the true village character

that we can give them, should be straightforward and honestly contemporary in their building forms.

Now, even though it is likely that only the more remote villages will maintain their simplicity of social structure, I think that we must, nevertheless, try to maintain simplicity of physical form if we wish to retain village character. The simplicity of our new work will be a conscious simplicity, not the unconscious simplicity of the old. And we shall have to be careful not to fall into affectation. But, providing our conscious attempt to achieve simplicity is honest and sincere, providing our motives are true, and providing the simplicity aimed at is functional and not merely æsthetic, we should be able to avoid the errors of affectation. Indeed, I think we may best achieve simplicity in a negative rather than a positive way by avoiding the use of elaborate, complicated, fussy and involved forms as much as by positively aiming at simplicity. In saying this I am not speaking merely of forms which are involved in themselves, but which are involved in their relationships to the rest of the village.

Let me give one example of this relationship in order to make my meaning a little clearer. Take the *cul-de-sac*. It is a form which has been used extensively in village additions, and to my mind nearly always with disastrous effect. It may be regarded as a simple, if sophisticated, form in itself, though when it is given the necessary turning space at its head its architectural effects become involved, and when it is given, as it so often is, that squalid post and wire fence which is one of the curses of our age, its interior forms become extremely elaborate and distracting as well as squalid. But even in its pure form it brings a complication into the village pattern since, because of its greater depth in proportion to its width, it is clearly something added to and elaborated upon the main form, instead of being part of it. Because of this it is both alien to the main form and destructive of its simplicity. The shallow quadrangle can, I think, be successfully used in a village on not too frequent occasions and in a free rather than a monumental way. It can be used successfully because the proportions of its form—little depth in relation to width—keep it within the main form of the village as a whole, whereas in the case of the *cul-de-sac* it is the exact opposite that occurs.

### TREATMENT OF NATURAL FORMS

One word more. Whatever I may have omitted to say about the building forms in the village, I cannot leave this subject without some reference to the use and treatment of natural forms. And I will make no attempt to hide the passionate way I feel about this. Few generations have been more severely tried than ours, and we have come out of our trials so far with our courage and our humanity battered but unbeaten. We are, I am sure, as good as our fathers in most ways. But how unspeakably vulgar we are! And how that vulgarity is brought out when we come to deal with simple natural forms.

A year or two ago a wicked examiner in our Institute's final examinations set the following question:—"The Parish Council of an old agricultural village is proposing that the pond at one side of the village green should be made into a model yacht pond with a fountain in the middle, and that concrete paths and flower beds should be laid out round it. Set out your reasoned advice, as the planning officer to whom the matter has been referred." It was in a sense a trap question, but the examiner thought he had made the trap so blatantly obvious that no one could possibly fall into it. Yet they tumbled into it in their hundreds. At least 90 per cent. of all candidates fell headlong in. And they lovingly and tenderly elaborated their refinements of vulgarity to almost unendurable degrees—what kind of

crazy-paving they would use on the paths, the flowering currants they would plant alongside, the shrubberies, the privet hedges, the begonias and all the rest of their confectionery. That experience dealt such a blow to the examiner that it is doubtful if he will ever recover his one-time faith in the inherent goodness of human nature.

But those unhappy candidates reflected the almost universal suburban-minded vulgarity of the day (and my coupling here of suburbanity and vulgarity is not fortuitous, for I believe the two are very closely related—a point, this, which we should ponder over in our town planning as well as our village planning). We ourselves are as guilty as parish councillors, county councillors and civil servants. The suggestion that village greens should be planted with diminutive flowering trees—cherry, crab-apple, laburnum and the rest, is nowadays quite the rage. Rage should be the word—but in another sense. That flowering vulgarity should literally and brutally be nipped in the bud. The place for these fussy, finicking pretty things is the garden. The trees for the public places of the village should be the simple robust trees of the everyday countryside. The essence of true village character and good village design is simply simplicity.

## Law, Report

Court of Appeal. Before Lord Goddard (Lord Chief Justice) and Justices Humphreys and Finnemore. *Holmes v. Bradfield Rural District Council*.

This matter came before the court for its decision on two points raised by an award of an official arbitrator, Mr. Done. The case arose out of the proposed erection of bungalows by Mr. J. H. Holmes in the area of Bradfield Rural District Council. It appeared that the council had given its consent to the erection of one bungalow on land owned by Mr. Holmes and he desired to erect ten others. Certain permissions were given and Mr. Holmes put in hand certain "work" that was necessary for the erection of the bungalows. Permission to erect the bungalows was finally withdrawn and Mr. Holmes now claimed compensation for "work" done prior to the withdrawal of the permission granted.

The Official Arbitrator raised two questions for the court's decision. The first was, whether under Section 7 of the 1943 Act "work" which was rendered abortive by the Order included work on the preparation of plans, which proved abortive, no building work having been begun. The second question was whether Mr. Holmes, by his withdrawal of his appeal in 1946, was entitled, under the section, to be paid for work done prior to the withdrawal.

The court answered both questions in the affirmative after legal argument.

Mr. Justice Finnemore, who gave the judgment of the court, said the question was what was the meaning of "work" as set out in Section 7? In his view sub-section 3 of Section 7 dealt with the exact matter. It not only dealt with the case where expenditure had been incurred in carrying out any work which was rendered abortive by a revocation order, but contracts entered into for work which was abandoned in consequence of the order. The sub-section also covered the charges made in connection with the work. Consequently that covered the "work" which was done on the plans. On this case the court would take the view that this charge was sensible and just and reasonable. Therefore it followed that the court would answer the questions in the affirmative.



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## TECHNICAL SECTION

*A digest of current information prepared by independent specialists; printed on one side of the paper only, to allow readers to cut out the items for filing and paste them up in classified order. Headings below.*

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#### 2.75 planning: general POPULAR GUIDE

*An Introduction to Planning.* G. B. Barker. (Percival Marshall & Co., Ltd., 1948. 3s. 6d.)

An over-simplified statement of planning procedure containing, however, some useful figures and reference data. Photographs. Bibliography.

This booklet, which is mainly directed to planning assistants, students and councillors serving on planning committees, aims at giving "all these people a fundamental introduction to planning." It is doubtful whether this purpose can be achieved in the manner attempted by the author, who in setting down facts as simply as possible becomes almost misleading in certain instances. His account of survey procedure, for instance, leads one to believe that all the work involved can be undertaken by one person.

It is, nevertheless, worth while to draw attention to a certain amount of reference data provided, which include figures regarding neighbourhood and district unit sizes and their essential equipment, such as numbers, types and acreages of schools, shops, etc. A chapter dealing with road design contains data in relation to roundabouts, road widths, curves and gradients. There is a table concerning retail trade distribution for shopping centres based on population figures, and dimensions of pitches for various games are listed. Seating capacities of theatres in relation to town populations are given, together with a table showing approximate sizes of areas to be reserved for theatres.

The bibliography which is provided should at least enable the user to see whether a book was published some 20 or 30 years ago. It refers to a number of standard

works and text books, but omits practically all planning literature of recent date, whether official or otherwise.

#### 7.16 practice MODEL MAKING

*Modelled Architecture.* P. R. Wickham (Percival Marshall & Co. Ltd., 1948. 12s. 6d.)

Intended more for amateurs than architects this book goes into considerable detail, especially on modelling historical types of building. 161 pp. illustrated.

#### 7.17 practice MASON APPRENTICES

*Recruitment of Masons.* Ministry of Works. (HMSO, 1949. 3d.)

Report by Building Apprenticeship and Training Council considering serious position of masonry craft and problem of adequate recruitment to it.

The Council recommend that the minimum number of mason apprentices to be recruited annually should be 2½ per cent. of the apprentices estimated to be required for all building crafts (see 7.18). More work in stone should be provided, and the possibility of special financial assistance to meet the extra cost of building in this medium should be considered. Industrial welfare conditions in the masonry trade should be improved and the widest publicity should be given to the national importance and future prospects of the craft.

#### 7.18 practice BUILDING APPRENTICES

*Building Apprenticeship: Recruitment and Training.* Ministry of Works. (HMSO, 1949. 4d.)

Report by Building Apprenticeship and Training Council reviewing apprenticeship position in building industry. Recommendations to ensure adequate supply of craftsmen.

The report draws attention to the industry's labour requirements in relation to the present and anticipated amount of building work. It is stated that a total labour force of 550,000 craftsmen requires 22,000 apprentices to be recruited annually divided in a definite ratio between the various trades. A comprehensive investigation should be undertaken in order to establish accurate and realistic figures for the proposed percentage distribution.

The Council consider the present recruitment position to be disquieting and are of the opinion that this is chiefly due to the sense of insecurity pervading the industry as regards the future volume of work. In addition, the restriction of building work in the post-war years has put a severe limitation upon the scope of apprentice training. It is, therefore, recommended that sufficient work of the right variety and quality be made available in order to create conditions of stability for a period ahead. The Apprentice Master Scheme, which is fully described in an appendix, should be continued on the present emergency basis.

#### 11.15 materials: general BRS REPORT

*Building Research.* 1946. (HMSO, 1949. 1s. 6d.)

General report on the work of BRS during 1946. Although late in appearing, and in part covering work already reported in various other publications, this review gives a good general picture of the work of BRS, and includes references to a number of items which so far have not reached the status of separate publication.

#### 13.40 materials: timber TIMBER SUBSTITUTION

*The Economics of Timber Substitution.* (Timber Development Association).

Pamphlet giving analysis of extra cost, extra labour and extra coal consumption resulting from the enforced use of substitute materials for timber. The arguments are, on the face of it, convincing. An appendix lists items for which steel and concrete have been substituted for timber.

Among other points, the following are emphasised in the pamphlet:—

(1) That by substituting steel for timber, steel has to be imported, at a higher cost than timber, and very largely from the same countries as would export timber.

(2) That in processing the steel a considerable extra amount of labour is involved.

(3) That by exporting finished steel articles, and substituting timber articles manufactured from imported timber, there would be a considerable saving of dollars. The saving for the substitution of wood instead of metal windows alone is 4 million pounds worth of dollars.

(4) That it would be possible to substitute timber in about 15 to 20 per cent. of the light rolled products now manufactured in steel, thus releasing non-alloy steel for the manufacture of goods for export.

(5) That Great Britain is at present unable to meet the demands for exported steel and that the value of the steel now used in this country, and for which timber could be substituted, so releasing it for export, would considerably exceed the cost to this country of importing the requisite amount of timber. An estimated saving of 10 million pounds worth of dollars is quoted.

(6) That in attempting to substitute concrete products for timber, capital equipment will have to be increased, thus exceeding the limit of economical production in the cement industry. Also, by abandoning timber, capital equipment already existing in the latter industry is immobilized.

(7) That the amount of extra labour and transport involved in the manufacture and handling of concrete products is wasteful.

(8) That the saving in coal, by using timber instead of substitute materials, would be considerable. C.f. coal consumption in manufacture of steel framing covered with asbestos sheeting, 1.70 cwt; timber framing and tiles, 0.4 cwt.

(9) That the bulk of aluminium used in this country comes from Canada, which might otherwise export timber to this country, and that the cost of aluminium is considerably higher than the cost of timber.

(10) That the substitution of other materials for timber in recent domestic house designs has been very largely responsible for increased costs.

The pamphlet is well documented and the arguments are clearly presented. Since timber is so obviously the most sympathetic material for so many uses in building, one cannot help wondering, after reading the pamphlet, why the industry is denied a material which is so badly needed, and which, to all appearances, would affect considerable savings in expenditure.





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**15.48 materials: applied finishes and treatments**  
**METALLIC FINISHES**

*Bronze and Metallic Finishing.* (The Decorator, Jan., 1949, pp. 79 & 80.)

Directions and recipes for finishes for display stands, stove fittings, lighting fixtures, etc., to simulate bronze, oxidized silver, etc., using cellulose lacquers and also descriptions of acid treatments for brass and bronze metal.

**15.49 materials: applied finishes and treatments**  
**CHARACTERISTICS OF SHELLAC**

*Some Uses for Shellac.* (The Decorator, Jan., 1949, pp. 69-73.)

Short reference to its origins and discussion of its properties as a sealer, as finishing for woodwork and floors with special reference to teak and cedar, and as a quick-drying paint for sign writing, etc. Warnings about storage and possible discoloration of enamel work.

It is stated that in the last few years developments have taken place to produce a varnish combining both shellac and cellulose, chiefly to increase the rather poor moisture resistance of shellac. Tests have shown that a shellac varnish from which the natural wax has been removed and which contains about 10 per cent. cellulose will dry more quickly than pure shellac, wears better, and withstands repeated washing without turning white.

**18.24 construction: theory**  
**PRE-STRESSED CONCRETE**

*Prestressed Concrete.* By Gustave Magnel. (London, 1948, Concrete Publications, Ltd. Price 15s.)

Principles and methods of prestressing. Design of simply supported and continuous beams. Tests. Creep. Buckling. Permissible stresses. Applications.

The author of this book is one of the leading experts on pre-stressed concrete and was responsible for the design of a number of outstanding structures in this new method of construction. His book gives a clear explanation of the principles and characteristics of pre-stressed concrete and contains a number of interesting applications.

Professor Magnel's method of design is based on the approximate determination of the dimensions of the concrete, followed by a graphical representation of the basic relations. It is not suggested that this method cannot be improved.

Various tests on beams and struts and observations on the effect of creep, both

on concrete and steel, are discussed. Suggestions are made for permissible stresses to be assumed in the design.

The book is a translation from French, with conversions from the metric system.

**19.63 construction: details**  
**CONCRETE FLOORS AND ROOFS**

*Flexicore Floor and Roof Slabs.* G. B. Price. (J. of the American Concrete Inst., Dec., 1948, pp. 325-337.)

Design data-manufacture, tests and erection of precast pre-stressed cored slab units.

The Flexicore slab has a standard cross section 12 in. wide and 6 in. thick, lightened by two holes  $4\frac{1}{2}$  in. diameter running the full length of the slab made in lengths up to a maximum of 22 ft. 6 in. Reinforcement consists of two top bars for handling and two or three pre-stressed bars at the bottom to take care of the bending moment.

The cores are produced by inflated rubber tubes. The concrete is placed by a special pouring apparatus. The units are vibrated and cured in a kiln so that 22 hours after casting the concrete strength is about 2,200 lb./sq. in. and the forms can be stripped.

The reinforcement is of medium tensile strength and the pre-stress is only 20,000 lb./sq. in. It is likely to be lost owing to shrinkage and creep.

The results show that the deflection, even on a 22 ft. span is far below the permissible limit and the factor of safety against failure is adequate.

**20.117 construction: complete structures**  
**UNITY HOUSE**

*The Unity House.* Kendrick Findley & Partners. (The Builder, March 11, 1949, pp. 307-8.)

External walls consisting of precast reinforced concrete posts at 3 ft. centres clad with precast concrete slabs inside and outside with 6 in. cavity between. Party walls: two skins of clinker concrete slabs with a 2-in. cavity.

**20.118 construction: complete structures**  
**340-FT. SPAN RC HANGAR**

*Record-Breaking Concrete Roof Span.* (Eng. News-Rec. [USA], Feb. 3, 1949, pp. 59-61.)

Hangars for bomber bases at Maine and Rapid City now under construction have largest span arch roofs in reinforced concrete. Clear span 340 ft., maximum inside clearance 90 ft. External ribs spaced at 25 ft. Roof slab 6 in. thick at ribs tapering to 5 in.

**20.119 construction: complete structures**  
**PRE-STRESSED CONCRETE**

*Diversité des Applications du Béton Précontraint.* (Various applications of pre-stressed concrete). M. Lalande. (Travaux [France], Jan., Feb., 1949, pp. 1-22, 47-64.)

Description of the Freyssinet system and its applications in large-span bridges, harbour work, airfields, dams, tunnels, reservoirs, floors; 120 illustrations.

**25.69 water supply and sanitation**  
**SANITARY FITTINGS**

*The Design and Selection of Sanitary Fittings.* A. F. B. Nall (J. of the Royal Sanitary Institute, March, 1949, pp. 101-119.)

Deals primarily with domestic fittings. Historical considerations. Materials. Technical aspects of construction.

This paper provides a useful general review of the design and selection of sanitary fittings for domestic buildings. In the historical section the author describes various factors which may have limited developments.

The section on materials is interesting and more reliably informative than most statements on the subject. Of the newer materials the author points to the need for more experience before aluminium and plastics can be considered suitable for all the uses which are being suggested.

On the question of design, a number of useful detail points are made about each type of fitting. Many of these points seem obvious when stated, but are often overlooked in practice, and the paper serves as an excellent reminder of their importance.

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Should the factory buildings, including the land on which they stand, be included in the valuation, although the only difference between the values in 27(i) and 27(ii) would appear to be the loss of site value?

Similarly, is the house included with the value of the land adjoining the factory?

**A** It would be better to make separate claims, one for the factory and one for the house and site, because the factors affecting the loss of development rights are different in each case.



340-ft. span hangar in reinforced concrete. See 20.118.





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By Brian Grant

### GAS AND ELECTRIC WATER HEATING

These notes are written almost as Sir Stafford Cripps is making his Budget speech and there is really no general comment to be made on a no-change budget. There remains, however, a very reasonable case to be made out for a reduction in the purchase tax on gas and electric water heaters, whose manufacturers have had a pretty discouraging existence for the last two years or more.

It is, of course, quite obvious that the tax was applied not as a means of raising revenue, but to discourage the use of any pieces of equipment which might add to the gas or electricity load. So far as electricity is concerned it is probable that a heavy tax on space heaters was a reasonable measure, but it is open to argument whether electric immersion heaters really add very much to the peak load. Water heating by electricity as the sole method should perhaps be discouraged, but the immersion heater is most often used as an alternative to the solid fuel boiler, which will generally be in use to provide background heating during the winter months when the electricity load is at its peak. There is also the additional argument of the higher charge per unit during the winter quarter, which also tends to cut down the peak load.

In a memorandum prepared some months ago the Electric Water Heater Manufacturers' Association pointed out that the electric water heater is almost the only practicable device for (in effect) storing electricity in the form of heat, and the consumption of current for this purpose can be controlled without any inconvenience to the consumer, and probably even without his knowledge, by Ripple Control. This system can operate from the generating station, or some other central point, and the Clow report recommended that trials of its more extended use should be made.

There are various other arguments to be brought forward concerning the types of fuel used by power stations and in the domestic boiler, all of which have some bearing on the problem, but the water heater makers maintain that the possible reduction in peak load does not justify the crippling 100 per cent. tax, which has played havoc with production and can only lead to increased costs in the long run.

The gas industry, on the other hand, is not quite so badly off in that purchase tax was reduced from 100 to 66 per cent. last July. Gas water heaters, however, like the electrical types, are one of the few forms of labour-saving device available in the lower income household, and it should be remembered that by no means all of them are of the instantaneous type using considerable quantities of gas in a short time, as the small circulator and the small storage sink heater are also quite widely used. A further argument put forward by the gas interests, which I imagine applies equally

to electricity, is that heating water in a kettle on a stove is comparatively inefficient, the figures for boiling 1 gallon of water being 2,700 B.T.U. for a kettle on a gas stove against 2,000 for doing the same thing with a water heater.

So it would seem that there is a reasonable case for a reduction in tax as there is, amongst other things, the export market to be considered, and prices cannot be kept low without a reasonably stable home demand, the last thing to happen when there are changes in tax every six months or so.

### GAS APPLIANCE SALES

From the beginning of this month Ascots have taken over the sales of all the products of Radiant Heating Ltd., who make convection and radiant space heaters, some large-scale cooking equipment and sundry other appliances. The Floortherm heater illustrated here is a typical example. (Ascot Gas Water Heaters Ltd., 43, Park Street, London, W.1, and Radiant Heating Ltd., Radiant Works, Barnsbury Park, London, N.1.)

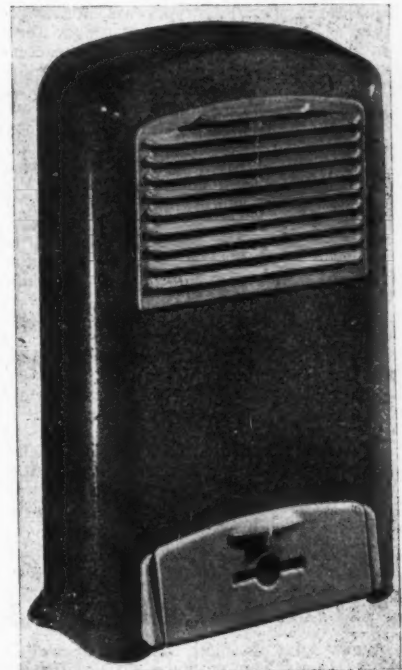
### FIXING METAL WINDOWS

Catalogue No. 124 from Crittalls deals with the fixing of their standard metal windows, and is really much more a handbook than a catalogue. It contains full size and quarter scale details of many different fixing methods—one of the quarter scale drawings is reproduced below. There are some useful notes on the handling of windows before fixing and the methods of forming openings when the windows are not multiples of brickwork courses. The details cover fixing in 11 in. and 9 in. walls, rendered and otherwise, either fixing the frames direct or using the different types of pressed steel sub-frame, or the separate sill unit. A useful booklet which has plenty of drawings and not too much matter in type. (The Crittall Manufacturing Co. Ltd., 210, High Holborn, London, W.C.1.)

### ALUMINIUM ROOFING

British Aluminium have just issued a booklet dealing with Rigidal corrugated aluminium roofing sheet, which is now freely available.

Aluminium sheet has been found to be in excellent condition after thirty years' service in direct contact with sulphurous fumes and in less severe atmospheric conditions in residential and agricultural areas the metal has been found to be in perfect

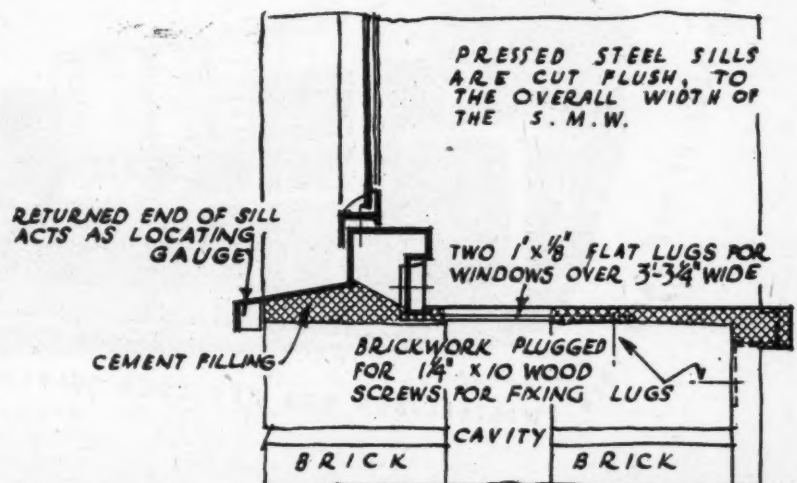


*The Floortherm heater.*

condition after considerably longer periods. The alloy used for Rigidal sheet contains 1.25 per cent. manganese and is highly resistant to corrosion, and, being homogeneous, the metal is not affected by the punching of holes for nails or hook bolts, which, with some materials, creates points at which corrosion may begin.

The sheet is supplied in a full range of lengths from 6 to 12 ft. in both 8/3 and 10/3 corrugations, as well as the mansard type with flats and corrugations at 6 in. pitch. Standard thicknesses are 20, 22 and 24 s.w.g., but the intermediate gauges are also sometimes specified, and will be available.

Fastenings such as nails, screws, hook bolts and clips are made in the same alloy, and will have the same length of life as the sheeting, but galvanized fittings are quite



*Quarter scale drawing showing metal window in a pressed steel sill, as reproduced in the Crittall catalogue No. 124.*

suitable if the alloy types are not available. Copper, brass, or other copper alloy fittings should *not* be used. Other accessories in the same alloy include three different types of ridging, and a side wall flashing is also made for corners.

The same firm has also just announced a new pattern of positive grip chequer plating for industrial and marine uses. The pattern of the plating is much deeper than in the normal chequer plating and should give a better grip, while it remains "open" enough to be easily cleaned down with a hose and brush. (*The British Aluminium Co. Ltd., Salisbury House, London Wall, London, E.C.2.*)

#### PUBLICATIONS RECEIVED

**Radiant Heat Processing.** A useful guide and summary of radiant heating by gas as applied to industrial processes. (*Bratt, Colbran Ltd., 10, Mortimer Street, London, W.1.*)

**Ketton Freestone.** An illustrated booklet drawing attention to the fact that the Ketton quarries have been re-opened after the war years. (*The Ketton Freestone Quarries, Ketton, Rutland.*)

## Announcements

A new suite of offices has been opened at Kent House, Market Place, Oxford Circus, W.1, to house the London Sales Staff of Messrs. Rubery Owen & Co. Ltd., of Darlaston, and that of certain other associated companies of the Owen organization, hitherto contained at various centres in London. In addition, the Owen Organization Export Staff will also be operating from these headquarters. Mr. S. Gordon Sloan, previously London Sales Manager of Messrs. Rubery Owen, has been appointed general

sales manager of the company and is now operating at the Darlaston head office. Mr. G. E. Montague succeeds him as London manager and has taken up office at the new London address.

The Timber Control has written to the President of the Hardwood Flooring Manufacturers' Association to the effect that the Ministries of Health, Works and Education have been advised that hardwood may be made available for block flooring in 1949 to almost any reasonable extent.

## Buildings Illustrated

**Workshop at Birmingham** (pages 339-342). Architect, Rudolf Frankel, F.R.I.B.A. General contractors: William Sapcote & Sons. Sub-contractors: steel frame, Rubery Owen & Co.; steel deck, Ruberoid Co. Ltd.; windows, Crittall Manufacturing Co. Ltd.; heating, Brightside Foundry & Engineering Co. Ltd.; fencing, Parker, Winder & Achurch, Ltd.; steel rolling shutters, Haskins; steel partitions, Sankey-Sheldon, Ltd.; paving, Art Pavements & Decorations, Ltd.

**Factory at Risca, South Wales** (pages 343-345). Architect, Rudolf Frankel, F.R.I.B.A. General contractors: T. F. Howells, Ltd. Sub-contractors: steel work and roof lights, Rubery Owen & Co.; steel sliding gates, Bolton Gate Co. Ltd.; sanitary fittings, Bolding & Sons Ltd.; metal windows, doors and screens, John Williams & Sons (Cardiff), Ltd.; roof insulation, John Bland & Co. Ltd.; paving, Vale de Travers Asphalte Paving Co. Ltd.; joinery and ironmongery, A. J. Binns; electric installation, Troughton & Young; precast flooring, Bath & Portland Stone Firms Ltd.; heating and water, M. & J. Lossos & Co. Ltd.; terazzo, Art Pavements & Decorations Ltd.

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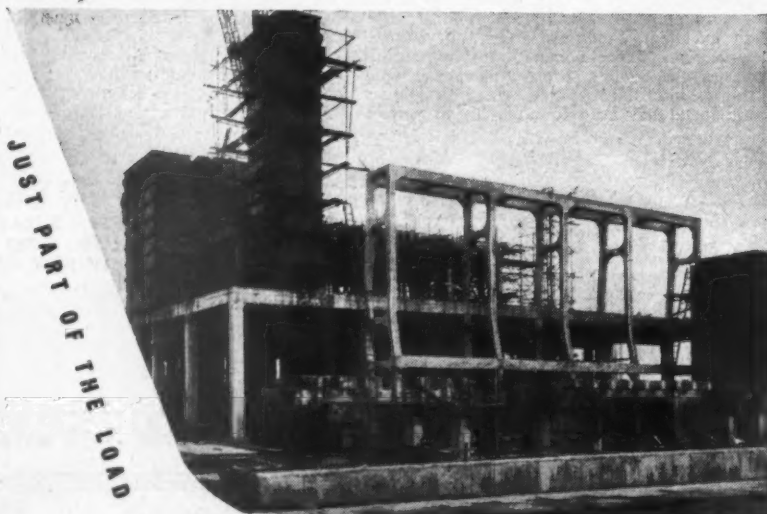
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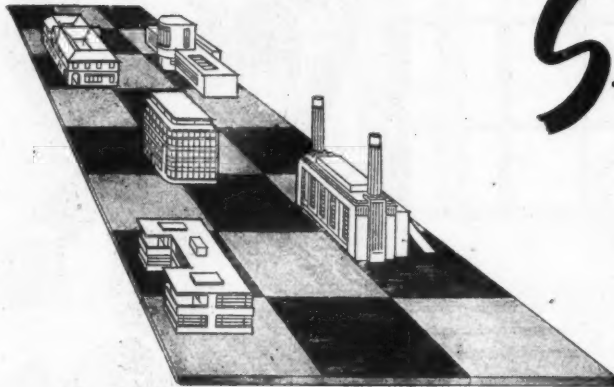
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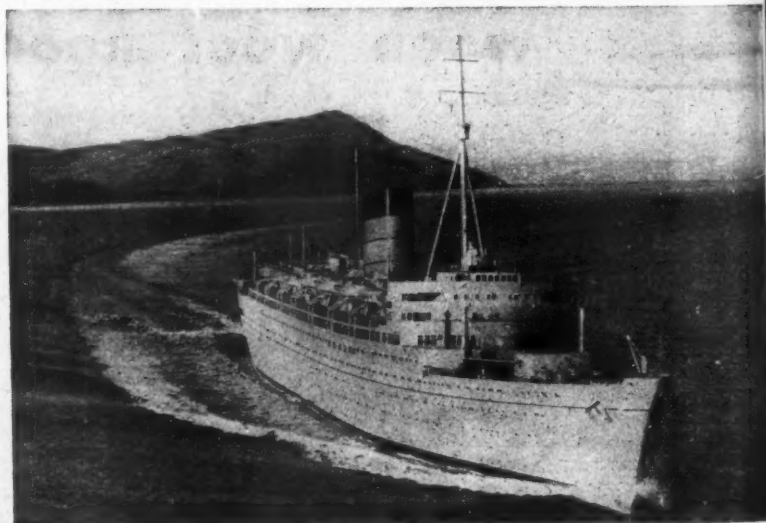


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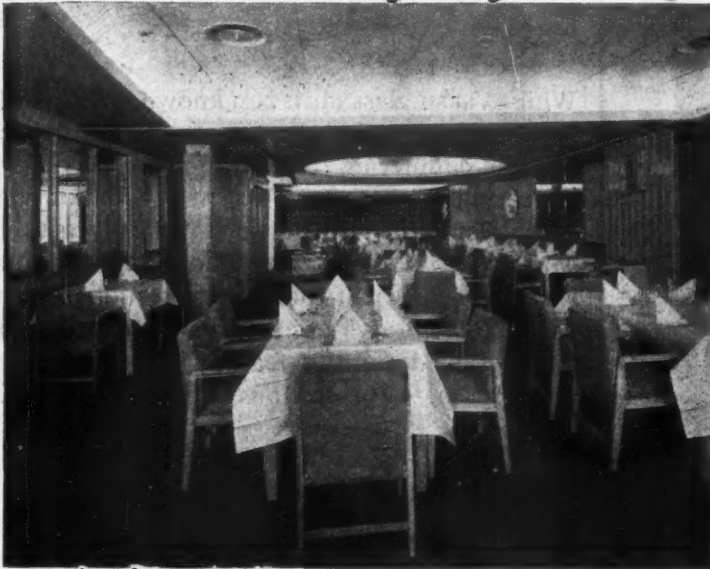
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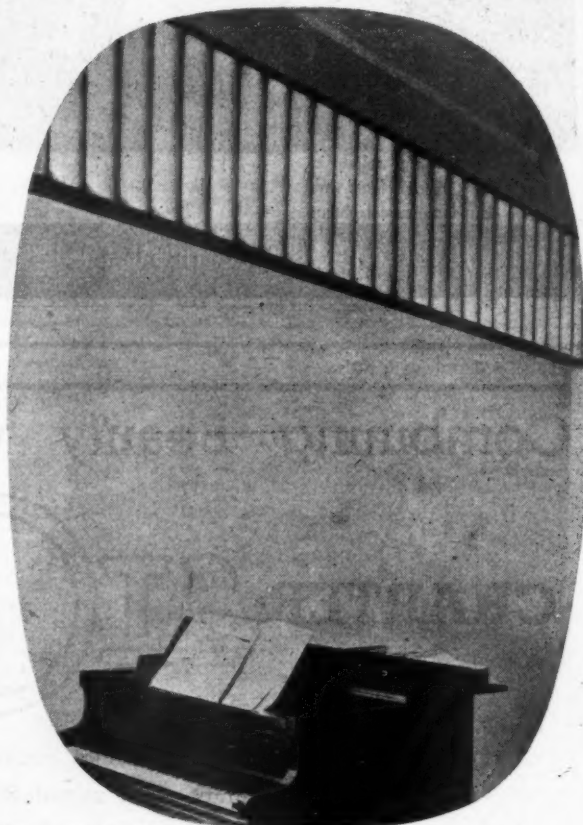
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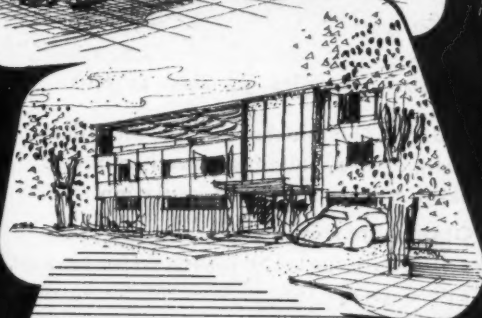
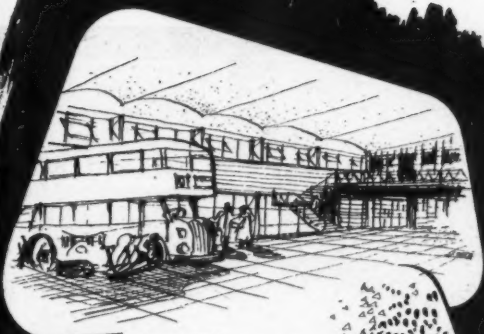


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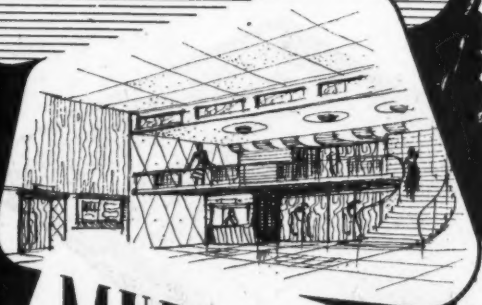
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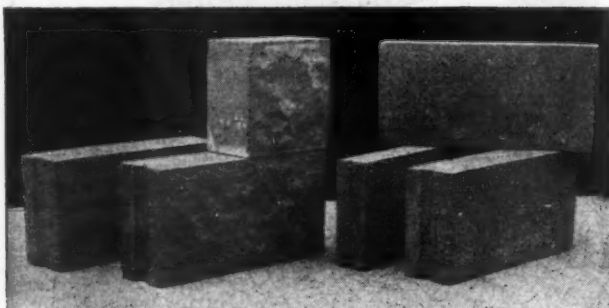


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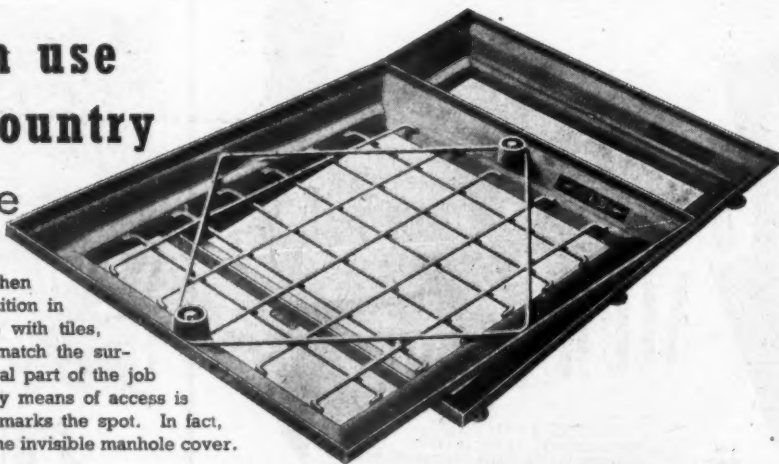
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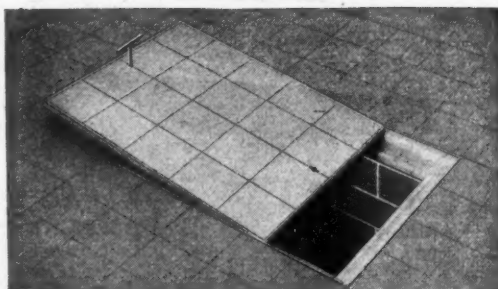
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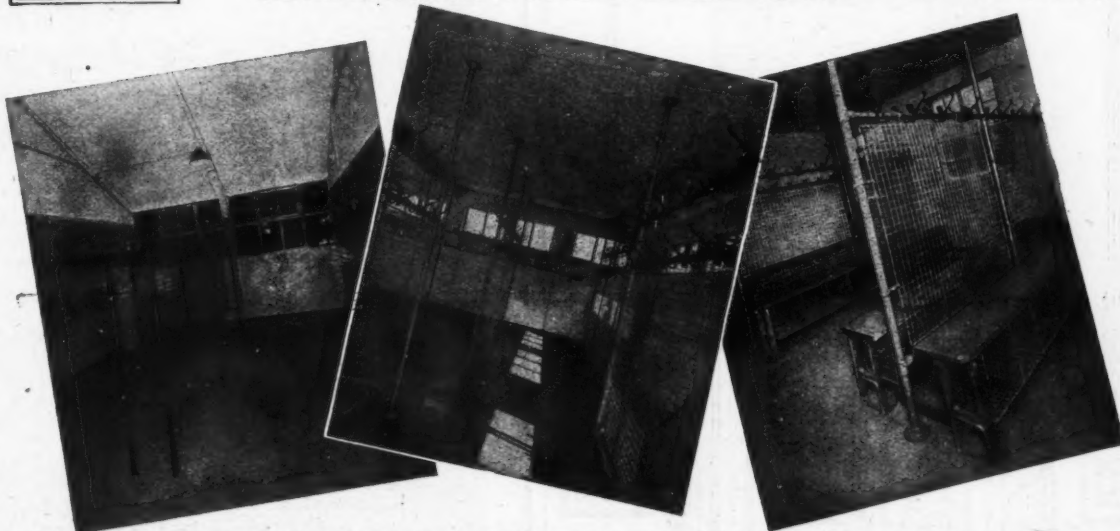


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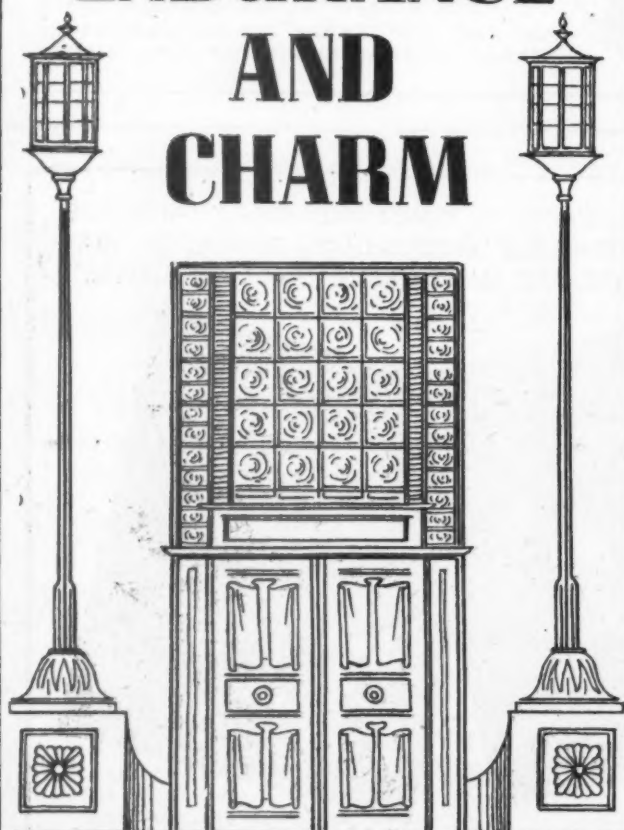
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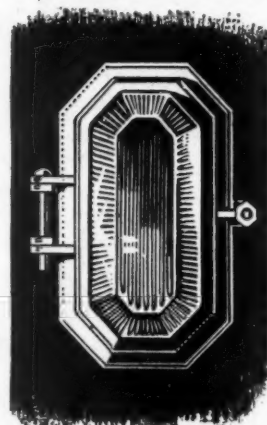
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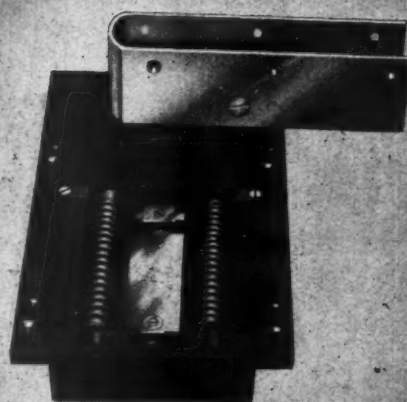
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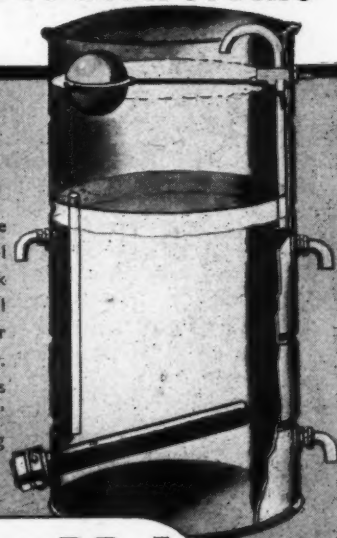
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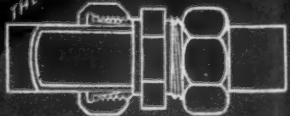
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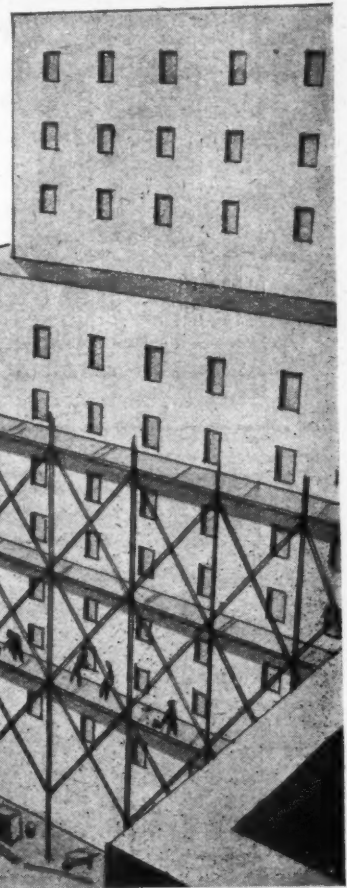
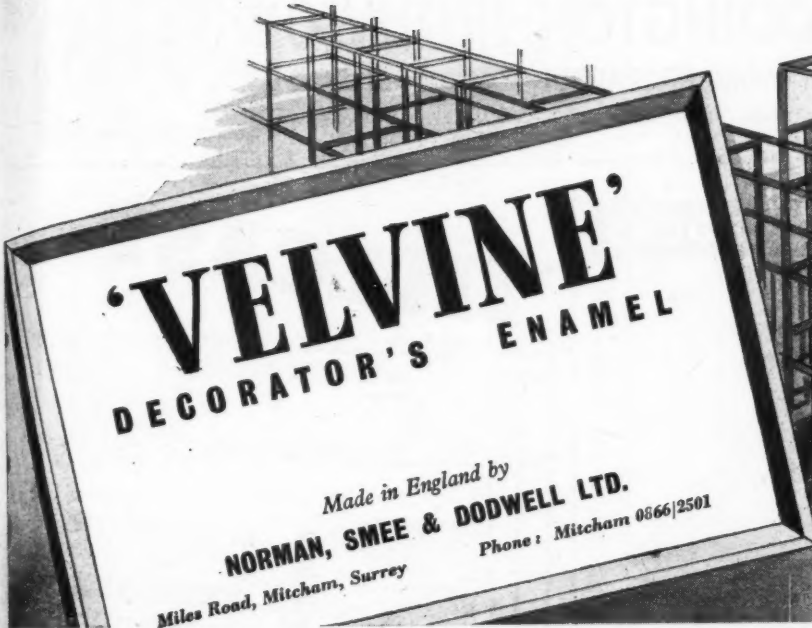


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*Microphones concealed in bowls of flowers*

Six Philips microphones and thirty loudspeakers, installed in the Empire Room at the Trocadero Restaurant, contribute to what is believed to be the most advanced sound equipment ever fitted in a hall.

The microphones, which can be concealed in bowls of flowers, can be plugged into any of the seven six-way connecting boxes fitted flush with the floor. The loudspeakers are built into the ceiling and have been made to harmonise with the design of the whole room.

Controlling the microphones is a small six-way switchbox. When one of the switches is depressed, it connects with the microphone concerned, and automatically brings into operation whichever loudspeakers have been selected on the large pre-selection panel on the amplifier console.

### UNIQUE FEATURE OF AMPLIFIER-PANEL REDUCES RISK OF "HOWLING"

The pre-selection panel, which embodies many automatic switches, is a unique feature and automatically turns off the loudspeaker nearest to whichever microphone is in use. This allows the volume control to be increased without the risk of "howling", thereby allowing the microphone to be placed farther away from the person speaking. As a result, this Philips equipment is perhaps the only type in the world where it is unnecessary to put microphones on tall stands in front of each speaker's face.

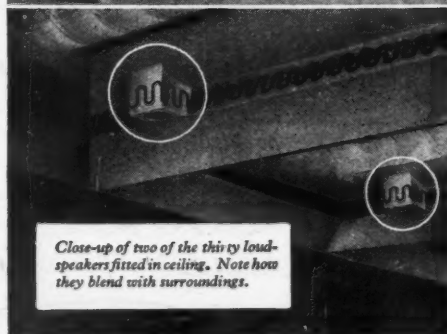
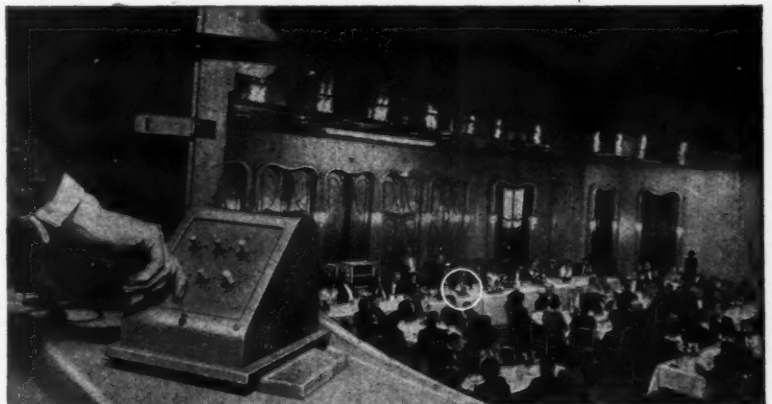
A full description of this installation is available on request.

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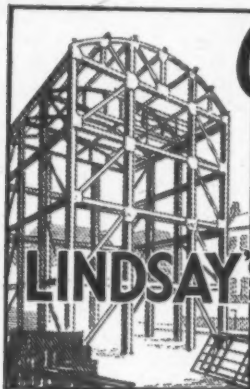
AMPLIFIER DEPARTMENT, CENTURY HOUSE, SHAFTESBURY AVENUE, LONDON, W.C.2



Close-up of two of the thirty loudspeakers fitted in ceiling. Note how they blend with surroundings.

A view of the Skat Club dinner, recently held in the Empire Room at the Trocadero, as seen from the control room. Mr. Beasley, High Commissioner for Australia, is in front of the microphone which rests in a bowl of flowers. The electrician's hand can be seen on the switchbox which controls each microphone.



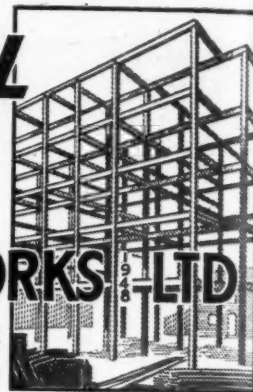


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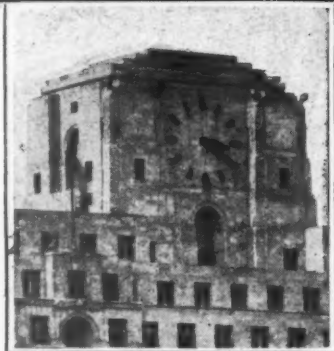
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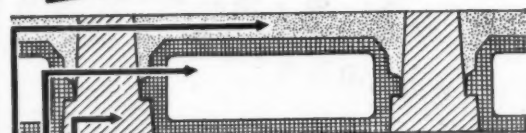
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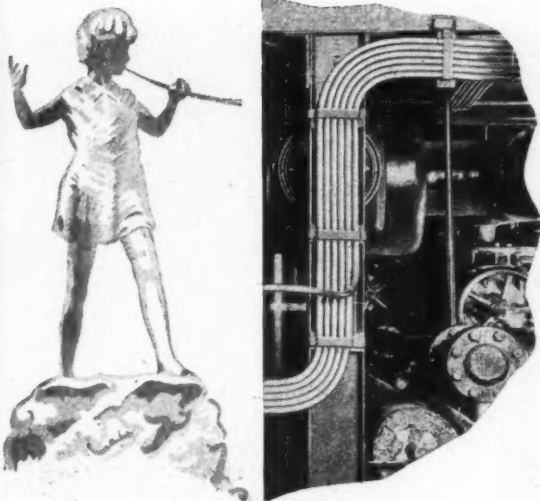
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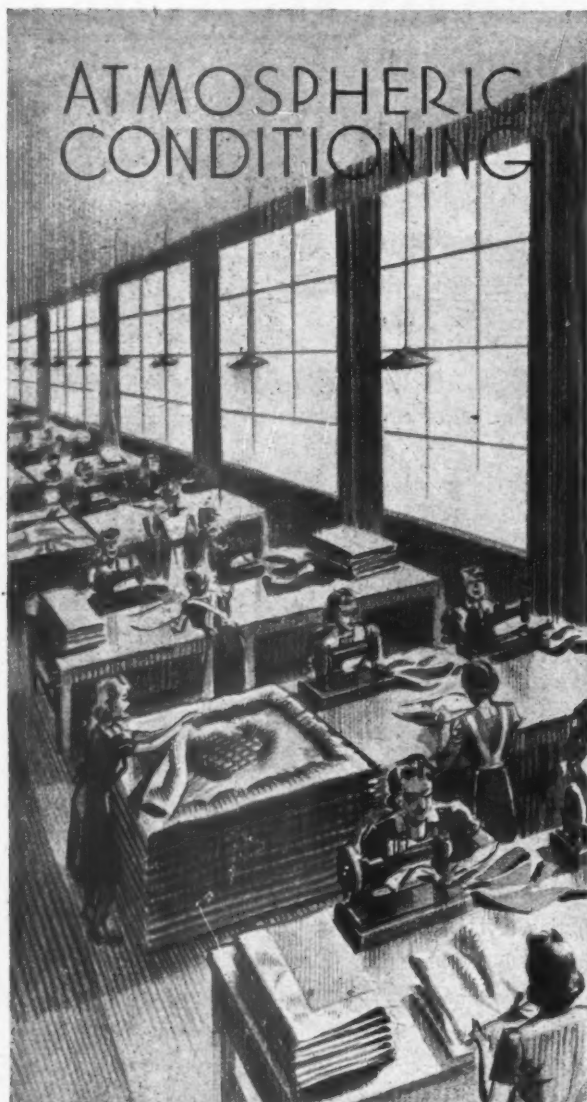
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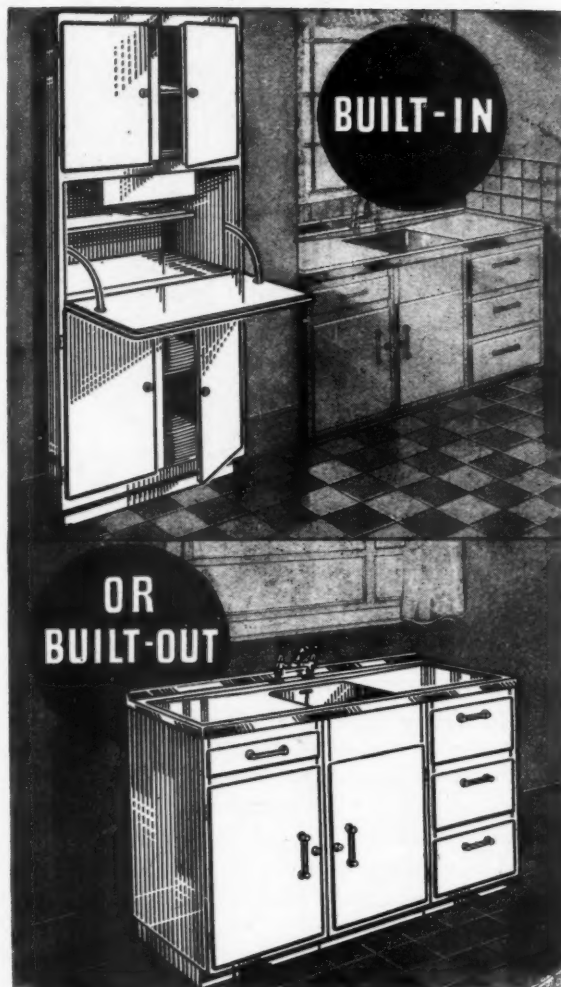
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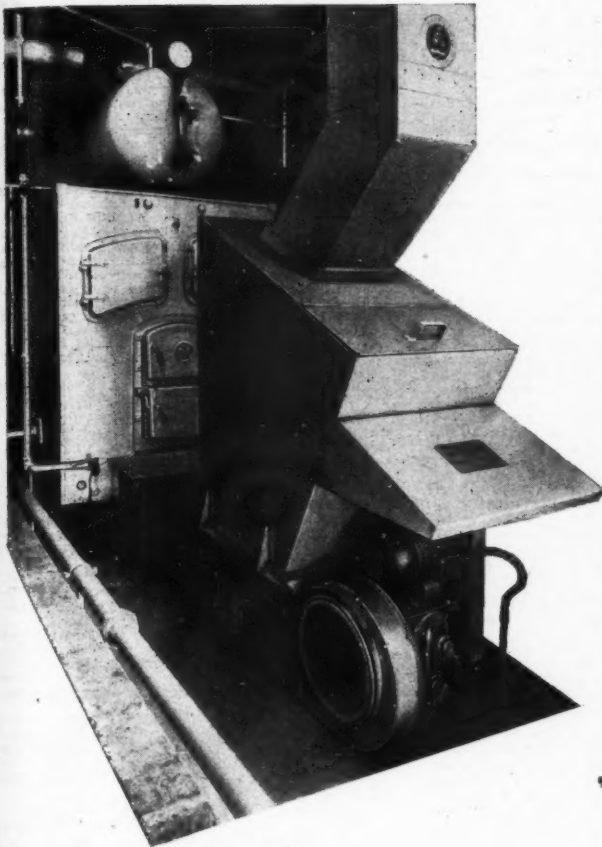
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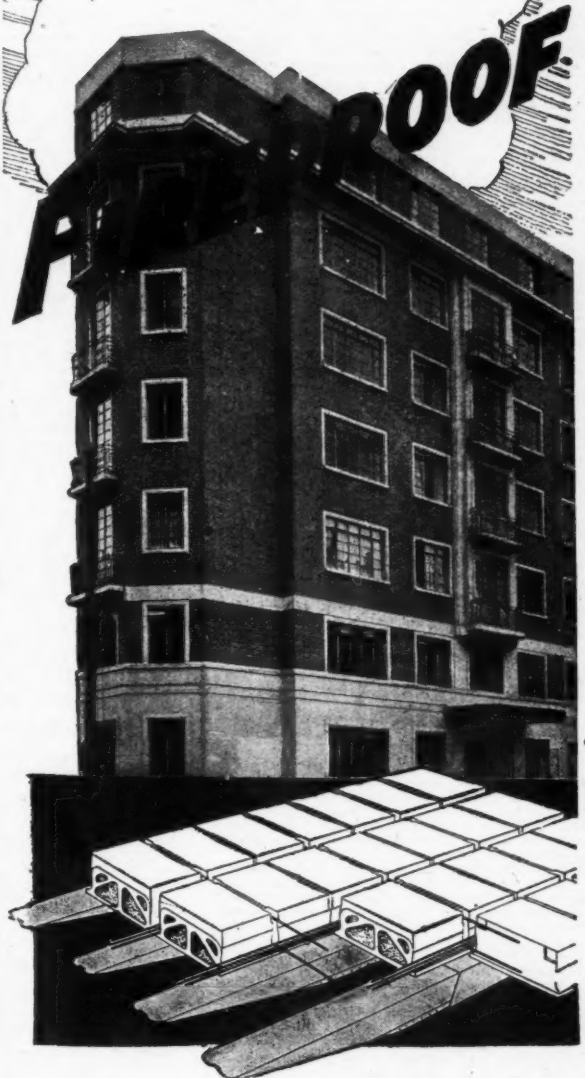
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Advertisements should be addressed to the *Advt. Manager, The Architects' Journal*, 3, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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### LONDON COUNTY COUNCIL.

Applications are invited for unestablished positions of (i) ARCHITECT, Grade III (salaries up to £700 a year) and (ii) ARCHITECTURAL ASSISTANTS (salaries up to £550 a year), in the Housing and Valuation Department. Commencing salaries in either grade will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Act, and successful candidates will be eligible for consideration for appointment to the permanent staff on the occurrence of vacancies.

Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to candidates holding a recognized professional qualification.

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.E.3). Canvassing disqualified. (2269) 1046

### BOROUGH OF WALLSEND.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Candidates must hold a recognized architectural qualification and have sound experience in the preparation of drawings and specifications for housing and other building works carried out by a Local Authority. Salary in accordance with Grade IV, A.P.T., Division, of the National Scale of Salaries, commencing at £480 per annum and rising by annual increments of £15 to £525 per annum. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, endorsed "Architectural Assistant," stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, to be delivered to the undersigned not later than 12th June, 1949.

CHAS. E. BRADBURY.

Town Clerk.

Town Hall, Wallsend.

525

### BUCKS COUNTY COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade IV, £480-£525 p.a., in the County Architect's Department. Candidates should preferably have been trained at a recognized School of Architecture and have a fair for design.

The appointment will be subject to termination by one month's notice in writing 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, stating age, qualifications, and particulars of present and previous appointments, and giving the names and addresses of three referees, to be sent to the County Architect, County Offices, Aylesbury, not later than 19th April, 1949. 2292

### CITY OF SALFORD.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the Architects' Department. Salary Grade V, £520 to £570.

Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and should possess a sound experience in design and construction, and also be experienced in the management of building contracts.

The appointments will be subject to:—  
(a) The Conditions of Service of the National Joint Council as adopted by the City Council.

(b) The provisions of the Local Government Superannuation Act, 1937.

(c) The passing successfully of a medical examination.

(d) The Standing Orders of the Council.

Applications, stating age, qualifications and experience, together with particulars of past and present employment—accompanied by copies of two recent testimonials—should be forwarded in envelopes endorsed "Architectural Assistant," addressed to the City Engineer and Surveyor, Town Hall, Salford, 3, and be delivered not later than Wednesday, 4th May, 1949.

Applicants must disclose, in writing, whether or not they are related to any Member of the Council or an Officer of the Authority.

H. H. TOMSON, Town Clerk.

580

### CITY OF COVENTRY. PLANNING DEPARTMENT.

Applications are invited for the following appointments on the permanent staff of the Planning Department:—

(a) TWO PLANNING ASSISTANTS. A.P.T., Va (£550-£610).

(b) ONE DRAUGHTSMAN. General Division. Maximum: Men, £385; women, £308.

Applicants for appointments (a) should have had considerable experience in survey work in connection with the preparation of the Development Plan, and must hold appropriate qualifications.

The appointments are subject to the following: (a) National Scheme for Local Government Officers, as amended by the Coventry Corporation, 1937, as amended re annuities for widows by the Coventry Corporation Act, 1936, and the Coventry Municipal Officers' Widows' and Orphans' Pension Fund; (c) medical examination; (d) one calendar month's notice on either side.

Housing accommodation may be made available for the successful candidates for appointments (a).

Applications, suitably endorsed, stating age and, in date order, education, training, technical qualifications, experience, present position and salary, together with the names of three referees, to be delivered to the Joint Planning Officers not later than the 25th April, 1949.

E. H. FORD, O.B.E., M.Inst.C.E.,

M.Inst.Man.E., M.T.P.I.,

D. R. E. GIBSON, M.A., A.R.I.B.A.,

A.M.T.P.I.,

Joint Planning Officers.

Planning Department, Earl Street, Coventry.

30th March, 1949. 512

### WEST SUSSEX COUNTY COUNCIL.

Applications are invited for the following appointments at salaries in accordance with the National Scale of Salaries (bonus consolidated):—

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Division, Grade VI (salary £595 to £650 per annum). Applicants must be Associates R.I.B.A. who have had considerable experience in the design and construction of modern school buildings. Previous experience with a Public Authority is not essential in the case of candidates with outstanding qualifications in architectural design.

(b) ASSISTANT MAINTENANCE SURVEYOR AND CLERK OF WORKS, A.P.T. Division, Grade I (salary £390 to £435 per annum). Applicants should have had experience in connection with the supervision of maintenance works, and must be able to prepare reports, specifications, schedule of dilapidations and estimates of cost. Previous experience with a public authority is desirable.

(c) JUNIOR QUANTITY SURVEYING ASSISTANT, General Division (salary according to age; Male, rising to £385 per annum at 32). Applicants, whose education should have reached matriculation standard and be accurate with figures, will have opportunity for training for this work.

Further particulars should be obtained from F. R. Steele, F.R.I.B.A., F.R.I.C.S., M.T.P.I., County Architect, County Hall, Chichester, to whom detailed applications, based on the further particulars, must be submitted not later than the 23rd April, 1949.

T. C. HAYWARD,

Clerk of the County Council.

County Hall, Chichester.

29th March, 1949. 511

### SURREY COUNTY COUNCIL.

Applications are invited for the following appointments:—

ASSISTANT QUANTITY SURVEYOR, Grade VI. Salary £596 to £660 per annum, plus London allowance of £30 per annum.

Preference will be given to applicants who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and who have an adequate experience in the preparation of Bills of Quantities, site measuring, and in settlement of final accounts.

Full details of past and present appointments should be given.

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

CLERK OF WORKS, on major building projects on the temporary establishment of the County Council. The salary will be up to a maximum of £12 per week, according to the qualifications and experience of the applicant.

All applicants must have been properly trained as craftsmen, and for preference have served as Foremen on substantial contracts, prior to 1940.

Applications, stating age, qualifications, full details of experience, salary required, and accompanied by copies of three testimonials, should be addressed to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, to reach him not later than the 23rd April, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

The Council will be unable to provide any housing accommodation, and the successful applicants will be required to make their own arrangements in this direction.

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 508

### METROPOLITAN BOROUGH OF SHOREDITCH. BOROUGH ARCHITECT AND SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, in Grade A.P. & T., IV (£480-£525 per annum, plus London weighting).

Applicants should have good general Architectural experience, and will be required principally to undertake the preparation of working drawings and details for housing schemes.

Preference will be given to candidates who have passed the Intermediate examination of the R.I.B.A.

The appointments will be subject to the Council's conditions of service.

Applications, stating age, training and experience, and the names of two persons to whom reference may be made, should be submitted to the undersigned not later than 21st April, 1949, and endorsed "Architectural Assistant."

Any applicant who is related to a member of the Council or to the holder of any senior office under the Council must disclose the fact in his application.

C. A. JAMES,

Town Clerk.

Town Hall, Old Street, E.C.1.

March, 1949. 2291

### COUNTY BOROUGH OF EASTBOURNE. BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF TWO ASSISTANT ARCHITECTS.

#### SALARY GRADE VII.

Applications are invited for the above appointments, at a salary in accordance with Grade A.P.T., VII (£634-£710 p.a.).

The successful applicants will be engaged principally in the design and construction of new schools, and experience in this type of work is desirable.

Applicants should be Associate Members of the Royal Institute of British Architects, and have had good experience in the design, supervision, and construction of new buildings.

The appointment is subject to the National Joint Council's Conditions of Service and the Local Government Superannuation Act, 1937.

The Council will assist in finding suitable housing accommodation for the successful applicants.

Applications, giving full details of age, present position, qualifications and experience, together with the names and addresses of two persons from whom references can be obtained, should be forwarded to the undersigned not later than Tuesday, 19th April, 1949.

RAYMOND WILLIAMS, B.Sc., A.M.I.C.E.,

Borough Engineer.

2 & 4, Saffrons Road, Eastbourne.

29th March, 1949. 2284

### COUNTY BOROUGH OF MIDDLESBROUGH EDUCATION COMMITTEE

Applications are invited for the following appointments on the permanent establishments:—

(a) Assistant Architects: A.P.T. Division VI (Salary £595-£660 p.a.).

(b) Assistant Architects: A.P.T. Division V (Salary £520-£570 p.a.).

Applicants for appointment (a) must be Associates of the Royal Institute of British Architects with experience in the design and construction of school buildings and capable of carrying out large contracts.

Applicants for appointment (b) should preferably be fully qualified architects with experience of the design and construction of school buildings.

Forms of application and general conditions of service may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom completed applications should be returned by not later than Monday, 25th April, 1949.

E. C. PARR,

Town Clerk.

557

### CITY AND COUNTY OF BRISTOL.

#### CITY ARCHITECT'S DEPARTMENT.

Applications invited for the following Permanent Staff Appointments:—

#### SENIOR ASSISTANT ARCHITECTS:

(a) Grade VII.

(b) Grade VI.

(c) Grade V.

#### ASSISTANT ARCHITECTS:

(d) Grade III.

(e) Grade II.

#### JUNIOR ASSISTANTS:

(f) General Division.

Applicants for appointment (a), (b) and (c) should be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have good general experience in design and construction. Experience in Local Authority office work will be an advantage.

Appointments are subject to provisions of Local Government Superannuation Acts, 1937 and 1939, and successful applicants required to pass medical examination. All appointments terminable by one month's notice in writing on either side.

Housing accommodation provided, if necessary, at an economic rent.

Applications, indicating specific appointment applied for, stating age, training, qualifications, experience, present appointment and salary, and the names of two referees, must be delivered to the undersigned not later than Friday, 22nd April, 1949.

J. NELSON MEREDITH, F.R.I.B.A.,

City Architect.

Eagle House, Colston Avenue, Bristol, 1. 597



# COUNTY BOROUGH OF TYNEMOUTH. BOROUGH SURVEYOR'S DEPARTMENT. STAFF.

Applications are invited for the following appointments:

- (a) TWO ENGINEERING ASSISTANTS. Grade IV, £480-£525.
- (b) ARCHITECTURAL ASSISTANT. Grade IV, £480-£525.
- (c) SENIOR TOWN PLANNING ASSISTANT. Grade VI, £595-£660.
- (d) TOWN PLANNING ASSISTANT. Grade V, £520-£570.

Applicants for appointment (a) must be Associate Members of the Institution of Civil Engineers or hold equivalent qualifications, and have had good general municipal engineering experience, including constructional work. Experience in reinforced concrete design, main drainage and coast defence work will be an advantage.

Applicants for appointment (b) must be Associates of the Royal Institute of British Architects, and have had good general architectural experience, particularly Housing.

Applicants for appointments (c) and (d) must be Associate Members of the T.P. Institute, and should have experience in the carrying out of basic surveys and the replanning of built-up areas. A recognized Engineering or Architectural qualification will be an advantage.

Applications, on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Herlihy, B.Sc.(Eng.), M.I.C.E., Howard Street, North Shields, together with copies of not more than three recent testimonials, should be addressed to the Borough Surveyor, to arrive by 10 a.m. on the 30th day of April, 1949.

All appointments are subject to the National Scheme of Conditions of Service, the Local Government Superannuation Act, 1937, a medical examination, and one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify, and applicants must state whether or not to their knowledge they are related to any member of the Council or to a holder of any senior office under the Council.

Dated this 4th day of April, 1949.

(Sgd.) FRED. G. EGNER.

Town Clerk.

14, Northumberland Square, North Shields. 575

## LONDON COUNTY COUNCIL. PLANNING STAFF.

Vacancies in the following grades (some permanent):

- PLANNING OFFICER, Grade I, £840 to £960 a year.
- PLANNING OFFICER, Grade II, £700 to £840 a year.
- PLANNING OFFICER, Grade III, £550 to £700 a year.
- TECHNICAL ASSISTANT (a), £440 to £580 a year.
- TECHNICAL ASSISTANT (b), 55s. to 167s. 6d. a week.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

Full particulars and forms of application obtainable from the Architect to the Council (AR/P/P), The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). Canvassing disqualifies. (193) 899

## SURREY COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:

### ASSISTANT QUANTITY SURVEYOR (GRADE III).

Commencing salary £450, rising by annual increments of £15 to a maximum of £495 per annum, plus London allowance of £30.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 30th April, 1949.

Canvassing, either directly or indirectly, will disqualify a candidate from consideration. The Council will be unable to provide any housing accommodation, and the successful candidate will be expected to make his own arrangements in this direction.

DUDELEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 590

## BOROUGH OF SOUTHALL.

### APPOINTMENT OF SENIOR TOWN PLANNING ASSISTANT (GRADE Va).

Applications are invited for the above appointment, on the permanent staff of the Corporation, at a salary in accordance with Grade A.P.T., Va, of the National Scheme (£550-£610), plus appropriate London weighting.

Candidates must hold a recognized Town Planning qualification.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him on or before Monday, 25th April, 1949.

J. S. SYRETT,

Town Clerk.

Town Clerk's Office, Southall. 2287

## WESTMORLAND COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

- (1) SENIOR ASSISTANT ARCHITECT. Grade VI, £595-£660.

Applicants must have had good recent design and constructional experience, preferably on modern school building, and be capable of controlling sizable building contracts.

- (2) BUILDING INSPECTOR. Grade III, £450-£495.

Applicants must have had a wide experience of all branches of the building trade, and be capable of supervising new building works. Experience in carrying out maintenance and minor alteration works and ability to prepare accurate reports and reasonable estimates, will be considered an advantage.

The appointments will be subject to the terms and conditions of service of the National Joint Council, and to the Local Government Superannuation Act, 1937. Successful candidates must pass a medical examination. The appointments will be subject to one month's notice on either side, expiring at the end of a calendar month.

Applications, giving particulars of age, married or single, education, technical training, qualifications, previous appointments, present salary and appointment, and full details of experience, in the order stated above, should be accompanied by one recent testimonial and the name of two other persons to whom reference can be made. They should be sent to R. H. Crompton, A.R.I.B.A., A.M.T.P.I., County Hall, Kendal, to reach him not later than 4th May, 1949.

H. B. GREENWOOD,

Clerk to the Council.

County Hall, Kendal. 588

## CITY OF PLYMOUTH.

### DEPUTY CITY ARCHITECT.

Applications are invited for the above appointment, at a salary of £1,000 per annum. The person appointed will be under the control of the City Architect, who is responsible for the whole of the Architectural Work of the Corporation.

Candidates should hold appropriate professional qualifications, and previous experience with a Local Authority is desirable.

The person appointed will be required to devote the whole of his time to the duties of the office and not to engage in private practice. All fees and emoluments received by him in respect of his duties must be paid by him into the Council's account. The appointment will be terminable by three months' notice on either side, is subject to the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Forms of application may be obtained from the City Architect, Weston Lodge, Seymour Road, Plymouth, and should be forwarded to the undersigned in envelopes endorsed "Deputy City Architect," not later than 30th April, 1949.

Housing accommodation may be made available to a successful married applicant, if he requires it.

COLIN CAMPBELL,

Town Clerk.

Pounds House, Peverell, Plymouth. 587

## LONDON COUNTY COUNCIL. ARCHITECT'S DEPARTMENT.

### ARCHITECTURAL ASSISTANTS.

Vacancies exist for technical assistants in the Architect's Department for the preparation of drawings and specifications in connection with the construction and adaptation of varied types of public buildings.

Commencing rate (up to £580 a year), according to qualifications and experience. The positions will be temporary in the first instance, but successful candidates will be subject to the Council's Superannuation and Provident Fund, and will be eligible for promotion on merit to the permanent staff and to higher positions on the occurrence of vacancies.

Full particulars and form of application from the Architect to the Council (quoting AR/P/A). The County Hall, Westminster Bridge, S.E.1 (enclose stamped addressed foolscap envelope). (272) 2083

## CITY OF NOTTINGHAM.

### CITY ENGINEER'S DEPARTMENT.

#### APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for appointments as Architectural Assistants in the following grades:—

- (a) Grade VII (£635-£710).

Applicants must be Members of the Royal Institute of British Architects and have had good Municipal experience.

- (b) Grade VA (£550-£610).

Applicants must have had good Municipal experience.

- (c) Grade III (£450-£495).

Applicants must have either passed the Final examination of the Royal Institute of British Architects, or had a good training in an Architect's office.

The appointments are subject to the Local Government Superannuation Act, 1937, and to the passing of a medical examination.

Applications are to be on forms to be obtained from R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than Friday, 13th May, 1949.

J. E. RICHARDS,

Town Clerk.

Guildhall, Nottingham. 609

## COUNTY BOROUGH OF BRIGHTON.

### APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the unestablished position of an Assistant Architect, Grade A.P.T.D.-V., £520-£570, in the Architect's Section of the Borough Engineer and Surveyor's Department.

Candidates should be suitably qualified and able to prepare designs, working drawings and specifications, and preference will be given to those having experience of Local Authority work.

Applications, stating age, qualifications and experience, and accompanied by copies of three testimonials, should be sent to D. J. Howe, Esq., M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, 26/30, King's Road, Brighton, not later than the 30th April, 1949.

J. G. DREW,

Town Clerk.

Town Hall, Brighton. 613

## NORTH RIDING OF YORKSHIRE COUNTY COUNCIL.

### ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of TWO ASSISTANT ARCHITECTS in A.P.T. Division, Grade IV (£480-£525), on the permanent staff.

Candidates should have passed the Intermediate examination of the Royal Institute of British Architects.

Appointments superannuable and subject to satisfactory medical examination, to the National Scheme of Conditions of Service, and to two months' notice in writing on either side.

Forms of application are not being issued, but further information may be obtained from the County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference may be made, to reach the undersigned not later than the 2nd May, 1949.

Canvassing will disqualify, and candidates should state in writing whether they are related to any member of or senior officer under the Council.

HUBERT G. THORNLEY,

Clerk of the County Council.

County Hall, Northallerton. 607

## HOLLAND COUNTY COUNCIL.

### COUNTY PLANNING DEPARTMENT.

#### AREA PLANNING OFFICER. Grade VI.

£595-£660.

Applications are invited for the above post from persons with wide experience in Town and Country Planning.

They should be fully conversant with recent legislation governing all aspects of Development Control, the Preparation of Factual Surveys and Reports leading to the preparation of a Development Plan.

The successful applicant will be required to provide a motor car, for which he will be paid a travelling allowance in accordance with the County Scale.

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

Applications, stating age, education, qualifications and experience, accompanied by a copy of one recent testimonial and the names of two persons to whom reference may be made, should be sent to arrive not later than 14 days after the publication of this notice. Known relationship to any member or senior officer of this Council must be disclosed.

Envelopes should be endorsed "Area Planning Officer," and addressed to the County Planning Officer, Harrington House, Broad Street, Spalding, Lincs.

H. C. MARRIS,

Clerk of the County Council.

County Hall, Boston, Lincs. 611

## LONDON COUNTY COUNCIL.

### VACANCIES FOR QUANTITY SURVEYORS AND ASSISTANTS IN ARCHITECT'S DEPARTMENT.

SURVEYOR. Grade II, £700-£735-£840 a year.

SURVEYOR. Grade III, £550-£610-£700 a year.

TEMPORARY TECHNICAL ASSISTANT (a).

£440-£520-£580 a year.

TEMPORARY TECHNICAL ASSISTANT (b).

Up to 167s. 6d. a week.

Commencing rates for Grade III and Technical Assistants according to qualifications and experience.

Candidates for Grade II and Grade III should be Associates of the Royal Institution of Chartered Surveyors, and experienced in abstracting and billing, estimating, interim valuations for payment on account, measuring, adjusting and agreeing final accounts, "taking off," and the preparation of Bills of Quantities. Applicants for positions as Temporary Technical Assistants should be up to Intermediate R.I.C.S. standard, and should have had previous experience in a quantity surveyor's office.

Successful candidates are required to contribute to the Council's Superannuation and Provident Fund. There are opportunities for Temporary Assistants to compete on merit for permanent appointment.

Application forms from the Architect (AR/P/Q), County Hall, Westminster, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (389) 582

The Department of Estate Management, University of Cambridge, requires the services of ASSISTANT ARCHITECT, who has passed the Final examination of the R.I.B.A.; ASSISTANT BUILDING SURVEYOR, who has passed the Final examination of the R.I.C.S., Sub-division III (Building); ASSISTANT QUANTITY SURVEYOR, who has passed the Final examination of the R.I.C.S., Sub-division III (Quantities). Applicants for these three posts must be not less than 25 years of age. Commencing salaries according to age and experience.

Successful candidates will, subject to 6 months' probationary service, be eligible for appointment to graded pensionable posts, the salary scales for which will be forwarded to applicants.

Detailed applications, with copies of three recent testimonials, to Secretary, Department of Estate Management, 74, Trumpington Street, Cambridge.

577

#### MART ANGLIAN REGIONAL HOSPITAL BOARD.

Vacancies exist in the Architect's Department of the Board's Headquarters in the following grades:—

A.P.T., II (£490-£465 per annum).

A.P.T., III (£450-£495 per annum).

A.P.T., IV (£490-£525 per annum).

A.P.T., V-VI (£520-£660 per annum).

For posts in Grade II applicants should have reached Intermediate standard of the R.I.B.A.; Grade III should have qualified as Associates R.I.B.A.; Grade IV and V-VI should have qualified as Licentiate or Associates R.I.B.A. and have at least 18 months' and 5 years' office experience respectively.

Forms of application will be forwarded by the undersigned on request.

K. V. F. MORTON,

Secretary.

117, Chesterton Road, Cambridge.

576

#### GOVERNMENT OF NORTHERN IRELAND. CIVIL SERVICE COMMISSION. ASSISTANT QUANTITY SURVEYOR.

Applications are invited for the post of Assistant Quantity Surveyor, Grade I, in the Ministry of Health and Local Government, Northern Ireland. Subject to a probationary period of two years, the post will be permanent and pensionable.

Qualifications: Candidates must be British subjects, normally resident in the United Kingdom and Associates of the Royal Institution of Chartered Surveyors (formerly F.R.S.I. Quantities Section). A wide experience of Quantity Surveying in all its branches is essential. Preference will be given to those with a working knowledge of current housing practice and an aptitude for cost analysis.

Remuneration: The consolidated scale of salary is £500, rising by annual increments of £25 to £750 per annum.

Preference will be given to suitably qualified ex-Servicemen of the 1914-1918 or 1939-45 war, provided they can, or within a reasonable time will be able to, perform the duties efficiently.

Closing date: Applications must be made on the prescribed form, which may be obtained from the Secretary, Civil Service Commission, Stormont, Belfast, and must be returned duly completed with copies of two recent testimonials so as to reach him not later than 22 May, 1949.

602

#### FIFE COUNTY COUNCIL.

##### COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL DRAUGHTSMAN. Applicants must have had experience in an Architectural drawing office and be quick and accurate draughtsmen. Consolidated salary £330, rising to £430 per annum. Medical test under Superannuation Scheme. Applications, stating age, experience and qualifications, to be lodged with the undersigned by 26th April, 1949.

J. M. MITCHELL,

County Clerk.

County Buildings, Cupar-Fife.

9th April, 1949.

618

#### BOROUGH OF PINCHLEY.

##### APPOINTMENT OF ARCHITECTURAL ASSISTANT.

The Council of the Borough of Finchley invites applications for the appointment of an Architectural Assistant in their Borough Engineer and Surveyor's Department, at a salary within the range of Grade VI (£595 to £650 per annum) of the A.P.T. Division of the National Scale of Salaries, plus London weighting.

Preference will be given to persons who are Associates of the Royal Institution of British Architects.

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

The person appointed will be required to pass a medical examination.

Applications, stating age, qualifications, present and past appointments, with details of experience and giving names of three persons to whom reference as to character and ability can be made, should be forwarded to the Borough Engineer and Surveyor, Mr. F. M. Spencer, A.M.I.C.E., M.I.M.S.E., 294/296, Regents Park Road, Finchley, N.3, by not later than first post on Friday, 29th April, 1949.

R. M. FRANKLIN,

Town Clerk.

Municipal Offices, Finchley, N.3.

April, 1949.

615

#### CITY OF COVENTRY.

Applications are invited for the following whole-time appointments on the permanent staff of the City Architectural Department:—

(a) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., VII, commencing at £635 per annum and rising to £710 per annum.

(b) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., V, commencing at £520 per annum and rising to £570 per annum.

In certain circumstances, Housing accommodation may be made available for the successful applicants.

Applicants should be Associate Members of the Royal Institution of British Architects, or hold equivalent qualification.

(c) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum.

(d) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., III, commencing at £450 per annum and rising to £495 per annum.

Applicants should have passed the Intermediate examination of the Royal Institution of British Architects.

(e) ONE ASSISTANT ARCHITECT. Salary on Grade A.P.T., II, commencing at £420 per annum and rising to £465 per annum.

(f) ONE ASSISTANT QUANTITY SURVEYOR. Salary on Grade A.P.T., IV, commencing at £480 per annum and rising to £525 per annum.

Applicants for (f) should have passed the Intermediate examination of the Royal Institution of Chartered Surveyors (Quantities Division).

Salary increments are subject to satisfactory service.

The posts are subject to one month's notice on either side, and to the provisions of the Local Government Superannuation Act, as amended in regard to annuities to widows by the Coventry Corporation Act, 1936, and a satisfactory certificate will be requisite from the Council's medical referee. The successful male applicants will be required to contribute to the Coventry Municipal Officers' Widows' and Orphans' Pension Fund.

Applications for all the above appointments must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than ten days after the publication of this advertisement.

Canvassing, directly or indirectly, will be a disqualification.

D. E. E. GIBSON,

City Architect.

1A, Warwick Row, Coventry.

14th April, 1949.

619

CROWN AGENTS FOR THE COLONIES. Applications from qualified candidates are invited for the following post:—

ARCHITECTURAL DRAUGHTSMAN required by the Government of Kenya for four years in first instance. Commencing salary according to experience in the scale £670 a year, rising to £840 a year. Free passages. Outfit allowance £30.

Candidates should be accurate and rapid draughtsmen, with sound knowledge of building construction and with architect's office experience. Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/24272/3D on both letter and envelope.

583

#### WEST AFRICAN BUILDING RESEARCH ORGANIZATION.

##### VACANCY FOR DIRECTOR.

Applications are invited for the post of Director of the above Organization, which is to be established to serve the needs of the four British West African territories (Nigeria, Gold Coast, Sierra Leone and the Gambia). The Organization, which will cover all fields of building research, will probably have its Headquarters in the Takoradi area, Gold Coast, and its scope will in the first instance be confined to building questions (as opposed to engineering).

(2) The first duty of the Director on appointment will be to draw up a scheme for the establishment and future work of the Organization in consultation with the four Governments, including estimates on which future expenditure will be based.

(3) Candidates, who must hold a good honours degree in science or civil engineering or equivalent qualifications, must possess considerable experience in research, and have held a post which would qualify them to initiate, direct, and supervise investigations into building problems with which the Organization will be called upon to deal.

(4) The appointment will, in the first instance, be on agreement for three years (two tours of 18 months each, including leave). Salary £1,200 per annum, plus expatriation allowance of £400 per annum. Income tax is payable at low West African rates. If Government quarters are provided a rental of £150 per annum would be charged. When the Colonial Research Service is established, absorption into that Service may be offered. Free first-class passages provided for successful applicant and wife on appointment and on leave. Leave in accordance with local regulations. Outfit allowance payable on first appointment. Existing F.S.S.U. policies will be maintained (if possible) on usual basis, otherwise a gratuity equal to 15 per cent. of basic salary drawn will be payable on satisfactory completion of contract.

(5) Forms of application obtainable from Under-Secretary of State, Colonial Office (Research Department), Sanctuary Buildings, Great Smith Street, London, S.W.1.

617

#### COUNTY BOROUGH OF CROYDON. ASSISTANT ARCHITECT.

Applications are invited for this appointment from suitably qualified candidates who have had architectural experience (particularly housing) with a Local Authority.

Salary Grade A.I. V, £550-£600 per annum, inclusive of London weighting of £30 per annum. The appointment is pensionable, subject to medical examination.

The Council are unable to offer housing accommodation.

Forms of application may be obtained from the Borough Engineer, Town Hall, Croydon, and should be returned to him not later than Saturday, the 23rd April, 1949.

Canvassing will disqualify.

R. TABERNER,

Town Clerk.

31st March, 1949.

594

#### KENT EDUCATION COMMITTEE.

##### THANET SCHOOL OF ART, HAWLEY SQUARE, MARGATE.

HEAD OF BUILDING DEPARTMENT required to take up duties in September, 1949.

The appointment is subject to the assent of the Ministry of Education.

Salary Grade (3) Barnham Scale for Heads of Departments (£700-£725-£850).

Candidates should hold suitable professional qualifications and have both teaching and industrial experience.

Application forms from the Regional Principal, Canterbury College of Art, St. Peter's Street, Canterbury, should be returned to him completed as soon as possible.

586

#### CITY AND COUNTY OF BRISTOL.

##### CITY ARCHITECT'S DEPARTMENT.

Applications invited from qualified Architects for the appointment of SECTION HEAD (EDUCATION).

Candidates must be Senior Members of the Royal Institution of British Architects, with considerable recent experience in the design and construction of all types of School Buildings. Candidates should also have experience in attending Committees, preparing reports, also in the control of a number of Senior and Junior Architectural Staff.

The salary offered is Grade K (£700-£800-£850).

Appointment subject to the provisions of the Local Government Superannuation Acts, 1937 and 1939, and the successful applicant required to pass medical examination. Appointment also terminable by one month's notice in writing on either side.

Housing accommodation provided, if necessary, at an economic rent.

Applications, stating age, training, qualifications, experience, present appointment and period held, and salary, together with the names of three referees, must be delivered to the undersigned by not later than 22nd April, 1949.

J. NELSON MEREDITH, F.R.I.B.A.,

City Architect.

Eagle House, Colston Avenue, Bristol, 1.

596

#### NORFOLK EDUCATION COMMITTEE.

##### APPOINTMENT OF EDUCATION ARCHITECT.

Applications are invited from suitably qualified persons for the appointment of Education Architect, on a salary scale of £1,100-£150-£1,300 inclusive.

Applicants should have had appropriate administrative and architectural experience.

The post is a permanent one, and the person appointed will be expected to contribute under the Local Government Superannuation Acts and to pass a medical examination.

The person appointed will be required to provide his own car and mileage and subsistence allowances will be paid in accordance with the appropriate County Council scale.

The successful candidate will be required to take up duty as soon as possible.

Forms of application and particulars of the appointment may be obtained from the undersigned on receipt of a stamped addressed envelope which should be returned not later than 14 days after the date of this advertisement. All communications regarding this matter should be marked "Education Architect" on the envelope.

W. O. BELL,

Chief Education Officer.

County Education Offices,

Stracey Road, Norwich.

596

#### COUNTY BOROUGH OF HALIFAX.

##### BOROUGH ENGINEER'S DEPARTMENT.

##### APPOINTMENT OF PRINCIPAL ARCHITECT FOR SCHOOLS.

Applications are invited for the above appointment, at a salary in accordance with combined National Grade, A.P.T., VII-VIII, £635-£760 p.a. The commencing salary will be fixed having regard to the candidate's experience, qualifications, and present salary. Housing accommodation will be available. The person appointed will be responsible for the design and construction of new schools and other architectural work under the control of the Education Committee, and will be terminable by two months' notice by either side.

The appointment is a superannuated one. Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials, and endorsed "Principal Architect-Schools," should be delivered to the undersigned not later than Saturday, 30th April, 1949.

RICHARD de Z. HALL,

Town Clerk.

Town Hall, Halifax.

4th April, 1949.

591



**PONTYPOOL URBAN DISTRICT COUNCIL.**  
**ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of Assistant in the Council's Architectural Department (P. Edwards Walker, A.R.I.B.A., A.R.I.C.B., Architect).

Salary to be in accordance with A.P.T. Division, Grade IV (£480 × £15 = £525 per annum). The successful applicant will be required to pass a medical examination and be subject to the Local Government Superannuation Act.

Preference will be given to Registered Architects who have qualified by examination and who have knowledge and experience of Housing and other Architectural work in the service of a Local Authority, including the preparation of Bills of Quantities and the measuring and agreeing of final accounts.

Applications, giving details of age, training, qualifications and experience, accompanied by copies of one recent testimonial and the names of two additional referees, and endorsed "Architectural Assistant," must reach the undersigned not later than Monday, 25th April, 1949.

H. COOK, Clerk of the Council.

Town Hall, Pontypool, Mon. 5th April, 1949.

**SUDAN GOVERNMENT.**

The Public Works Department requires (a) ONE ASSISTANT ARCHITECT and (b) ONE ARCHITECTURAL ASSISTANT for service in the Sudan, for (a) the design of and preparation of working drawings for the several building works of a public authority, and for (b) the preparation of working drawings for general building work. Candidates for (a) must hold recognized professional qualifications; preference will be given to those who have passed the whole, or part, of the Final examination R.I.B.A. Adequate experience of design is required and also of the preparation of working drawings to general building Construction Standard. Candidates for (b) should have had a sound architectural training and experience of general building work and be capable of the preparation of working drawings. In both cases experience of Hospital work would be an advantage. Appointment will be on a Short Term Contract for two years. The salary range in the case of (a) is £2,600 to £3,120, and in the case of (b) £1,480 to £1,975. The starting rate in each case would be according to age, experience and qualifications. Cost-of-living allowance, ranging from £2.180 to £2.390 per annum according to the number of dependants, is at present payable. An outfit allowance of £2.60 in the case of (a) and £2.40 in the case of (b) is payable when contract is signed, provided salary on appointment does not exceed £2,800. No income tax is at present payable in the Sudan. £2.1 = £1 0s. 6d. Strict medical examination. Free passage on appointment. Further information and application form obtainable from: Sudan Agent in London, Wellington House, Buckingham Gate, London, S.W.1. Please mark envelope "Assistant Architect" or "Architectural Assistant" as appropriate.

**COUNTY BOROUGH OF DEWSBURY.**  
**BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.**  
**APPOINTMENT OF CHIEF ASSISTANT ARCHITECT.**

Applications are invited for the permanent appointment of Chief Assistant Architect, in the Borough Architect's Department, at a commencing salary in accordance with A.P.T. Grade VI (£595-£660 per annum) Salary Scale of the National Scheme of Conditions of Service.

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 applicant will be required to pass a medical examination.

Housing accommodation is available for the successful applicant, stating age, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Saturday, 30th April, 1949, endorsed "Chief Assistant Architect."

A. NORMAN JAMES, Town Clerk.

Town Hall, Dewsbury. 6th April, 1949.

**BURGH OF CLYDEBANK.**

Applications are invited for the permanent appointment of a QUANTITY SURVEYOR on the Staff of the Burgh Surveyor.

The grading applicable to the post is A.P.T. IV. of the National Scales of Salaries (£480 × £15 to £525 per annum). Placing on the scale will be according to experience and ability.

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

Applicants should have approved qualifications, and be capable of undertaking the preparation of Bills of Quantities, preliminary estimates, site measurements, and interim certificates.

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

Applications, stating age, training, qualifications, experience, present appointment and period held, together with the names of three referees, must be delivered to the undersigned not later than the 25th April, 1949.

E. CORNOCK, M.I. Struct. E., Burgh Surveyor.

Municipal Buildings, Clydebank. 5th April, 1949.

**BOROUGH OF SOUTHGATE.**  
**BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.****APPOINTMENT OF ARCHITECTURAL STAFF.**

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor:—

(a) CHIEF ARCHITECTURAL ASSISTANT.

A.P.T. VII-VIII.

(b) TWO ARCHITECTURAL ASSISTANTS.

A.P.T. V-V.

(c) TWO ARCHITECTURAL ASSISTANTS.

A.P.T. IV-V.

In all cases the appropriate "London weighting" will be paid, and the commencing salary will be at some point on the lower grade, such point to be fixed in accordance with the qualifications and experience of the successful candidate.

For appointments (a) and (b) applicants must be Associate Members of the Royal Institute of British Architects or hold an equivalent qualification. For appointment (c) candidates must at least be in possession of the Intermediate examination of that Institute.

Forms of application for each appointment may be obtained from the Borough Engineer and Surveyor, and should be returned clearly marked Appointment (a), (b), etc., as the case may be, to the undersigned not later than 9 a.m. on Monday, 2nd May, 1949.

Canvassing directly or indirectly, will be a disqualification.

GORDON H. TAYLOR, Town Clerk.

Town Hall, Palmers Green, London, N.13. 4th April, 1949.

THE WAR OFFICE wishes to recruit ARCHITECTS, ASSISTANT ARCHITECTS, LEADING ARCHITECTURAL ASSISTANTS and TOWN PLANNERS, for service in the Middle and Far East. The salary range for Architects and Planners is £750-£1,000 p.a., plus allowances, and for Assistants £500-£750 p.a., plus allowances. Vacancies also exist for ARCHITECTURAL ASSISTANTS in London. Full particulars and form of application may be obtained from The Technical and Scientific Register, York House, Kingsway, London, W.C.2. Reference number J/W.O. should be quoted.

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The above appointments are permanent and offer prospects of up-grading to competent Assistants. Successful candidates will be required to undergo a medical examination for entry into compulsory superannuation scheme.

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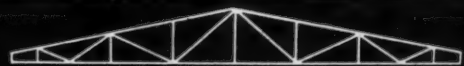
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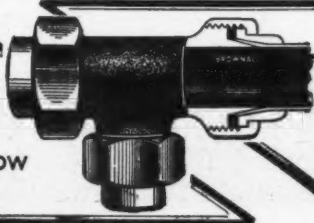


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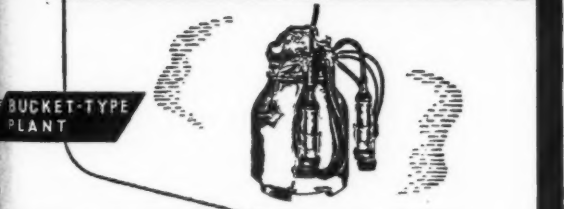
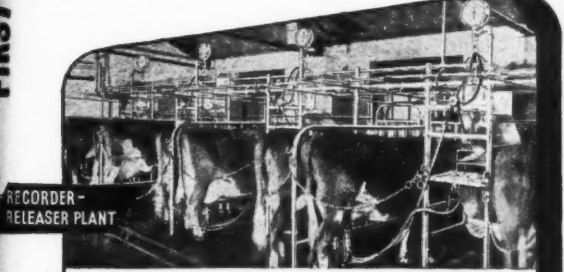
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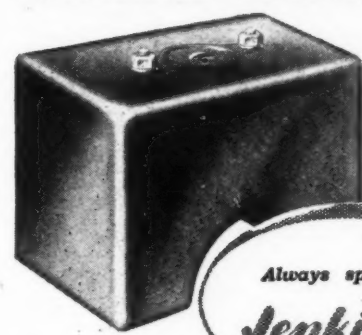
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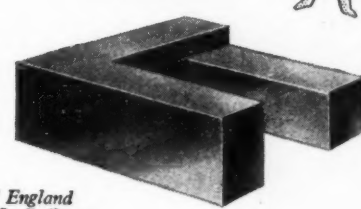
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