

STACK

THE ARCHITECTS' JOURNAL



standard contents

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

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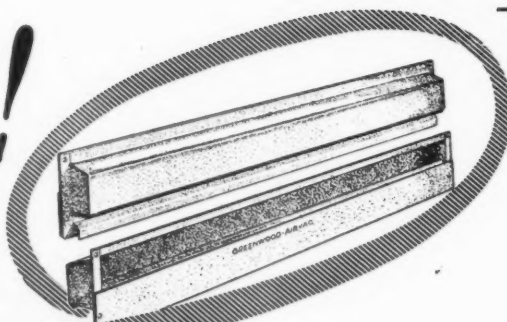
★ A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Je one week, Ig to Z the next. In all cases where the town is not mentioned the word LONDON is implicit 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. Langham 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. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4. Brixton 7048
 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. Langham 5721
 ASwW Association of Scientific Workers. 15, Half Moon Street, Piccadilly, W.1. Grosvenor 4761
 BAE Board of Architectural Education. 66, Portland Place, W.1. Langham 5721
 BATC Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. Reliance 7611, Ext. 1706
 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. 10, The Boltons, S.W.10. Flaxman 7766
 BEDA British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434
 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 F. R. Steele, F.R.I.B.A., County Hall, Chichester. Chichester 3001
 CCA Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255
 CCP Council for Codes of Practice. Lambeth Bridge House, S.E.1. Reliance 7611
 CDA Copper Development Association. Kendals Hall, Radlett, Herts. Radlett 5616
 CIAM Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland.
 CID Council of Industrial Design. Tilbury House, Petty France, S.W.1. Whitehall 6322
 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. Victoria 1534
 CVE Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1. Reading 72255
 DGW Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. Reliance 1761
 DIA Design and Industries Association. 13, Suffolk Street, S.W.1. Whitehall 0540
 DOT Department of Overseas Trade. 35, Old Queen Street, S.W.1. Victoria 9040
 EJMA English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448
 EPNS English Place-Name Society. 7, Selwyn Gardens, Cambridge.
 FAS Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837
 FASSC Federation of Association of Specialists and Sub-Contractors. 21, Tothill Street, S.W.1. Whitehall 9696
 FBI Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711
 FC Forestry Commission. 25, Savile Row, W.1.
 FCMI Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloane 1002
 FDMA The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623
 FLD Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverston 201
 FMB Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583
 FOB 1951 Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Waterloo 1951
 FPC The Federation of Painting Contractors, St. Stephen's House, S.W.1. Whitehall 3902
 FRHB Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041
 FS (Eng.) Faculty of Surveyors of England. 8 Buckingham Palace Gdns., S.W.1. Sloane 2837
 GG Georgian Group. 27, Grosvenor Place, S.W.1. Sloane 2844
 HC Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Whitehall 2881
 IAAS Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615
 ICA Institute of Contemporary Arts, 17-18, Dover Street, Piccadilly, W.1. Grosvenor 6186
 ICE Institution of Civil Engineers. Great George Street, S.W.1. Whitehall 4577
 IEE Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676
 IES Illuminating Engineering Society. 32, Victoria Street, S.W.1. Abbey 5215

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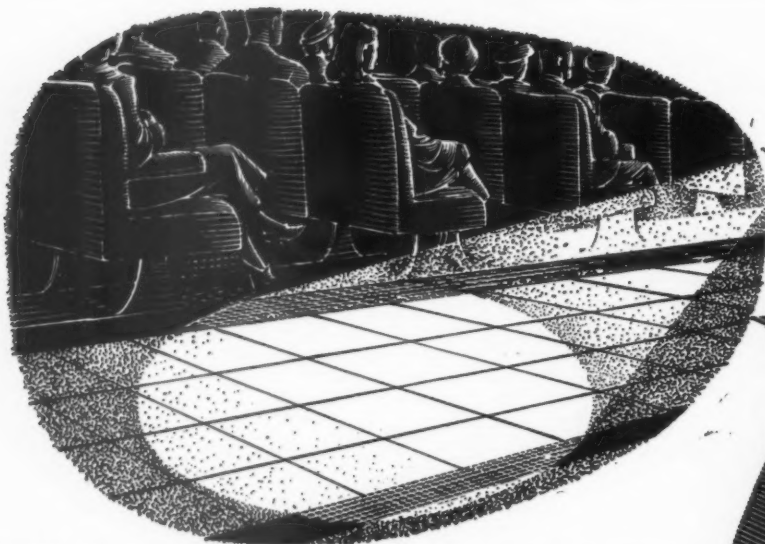
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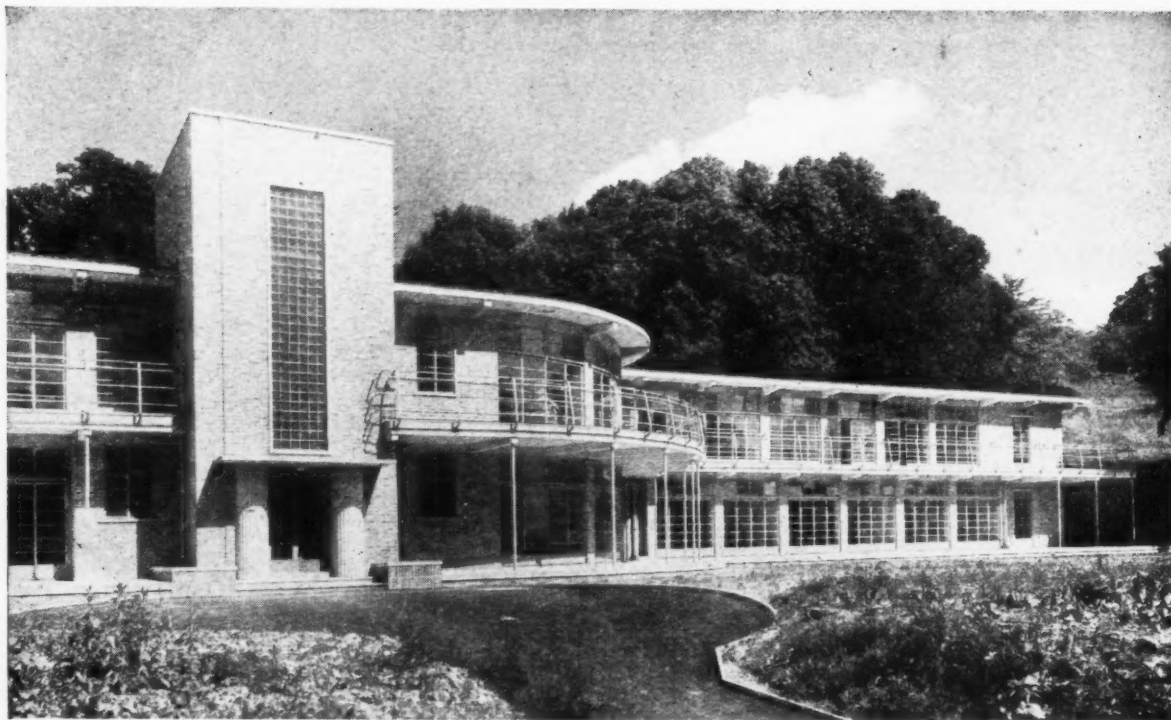
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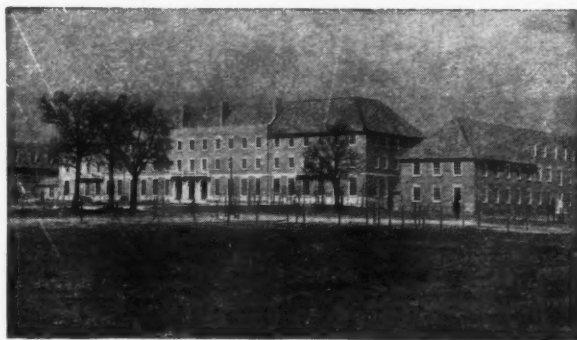


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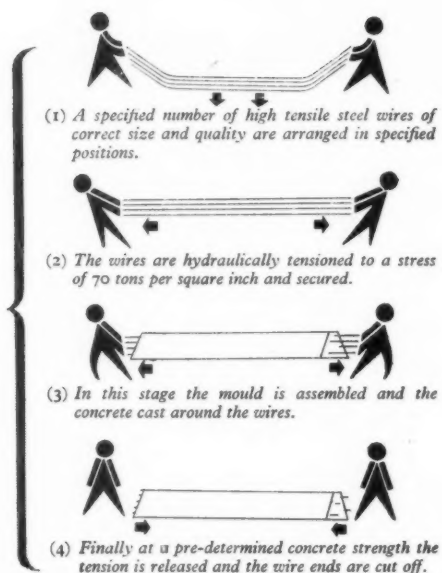
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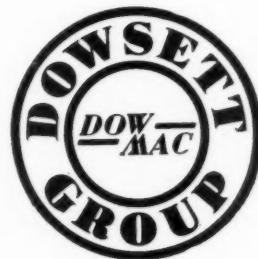


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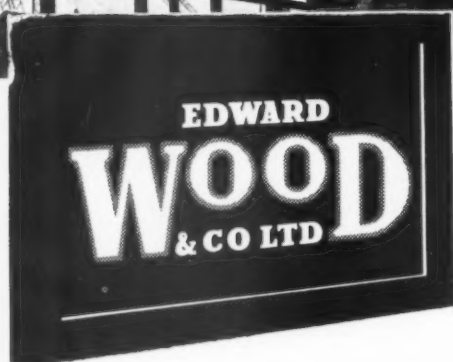
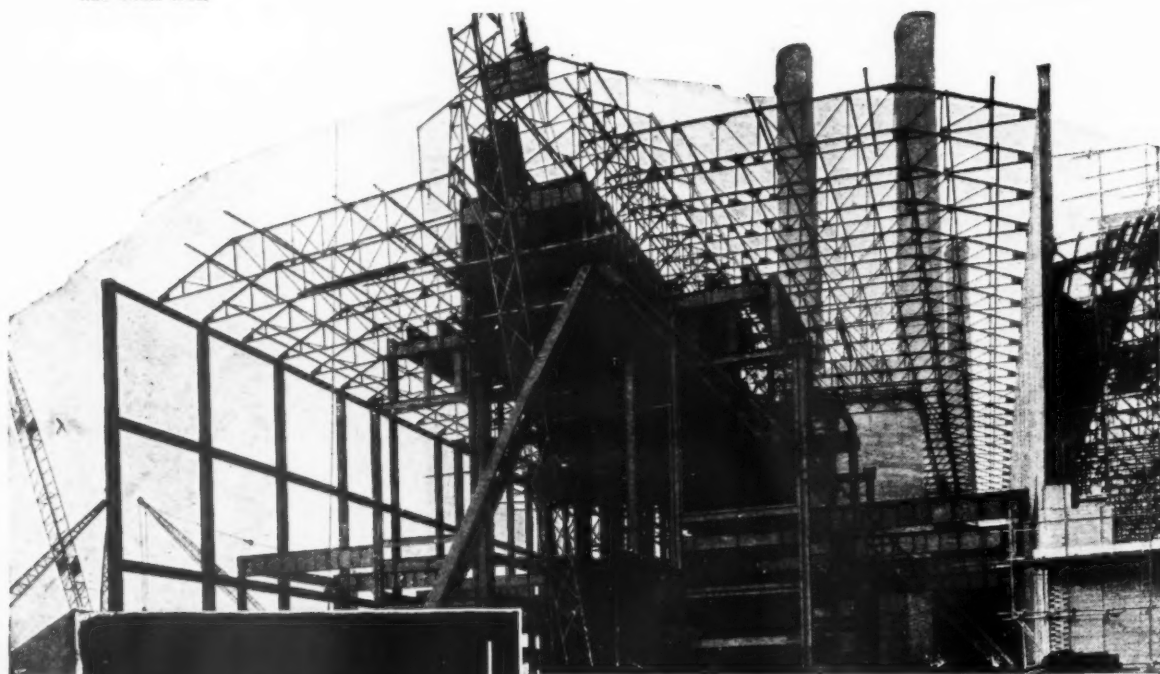
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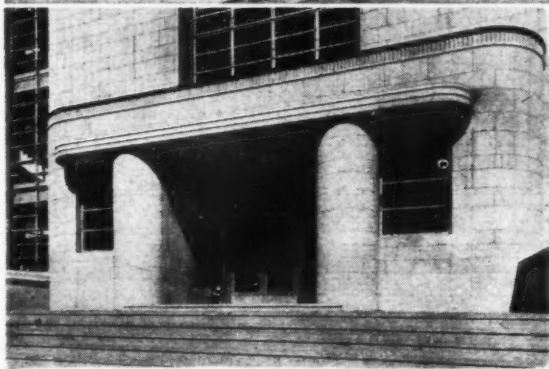
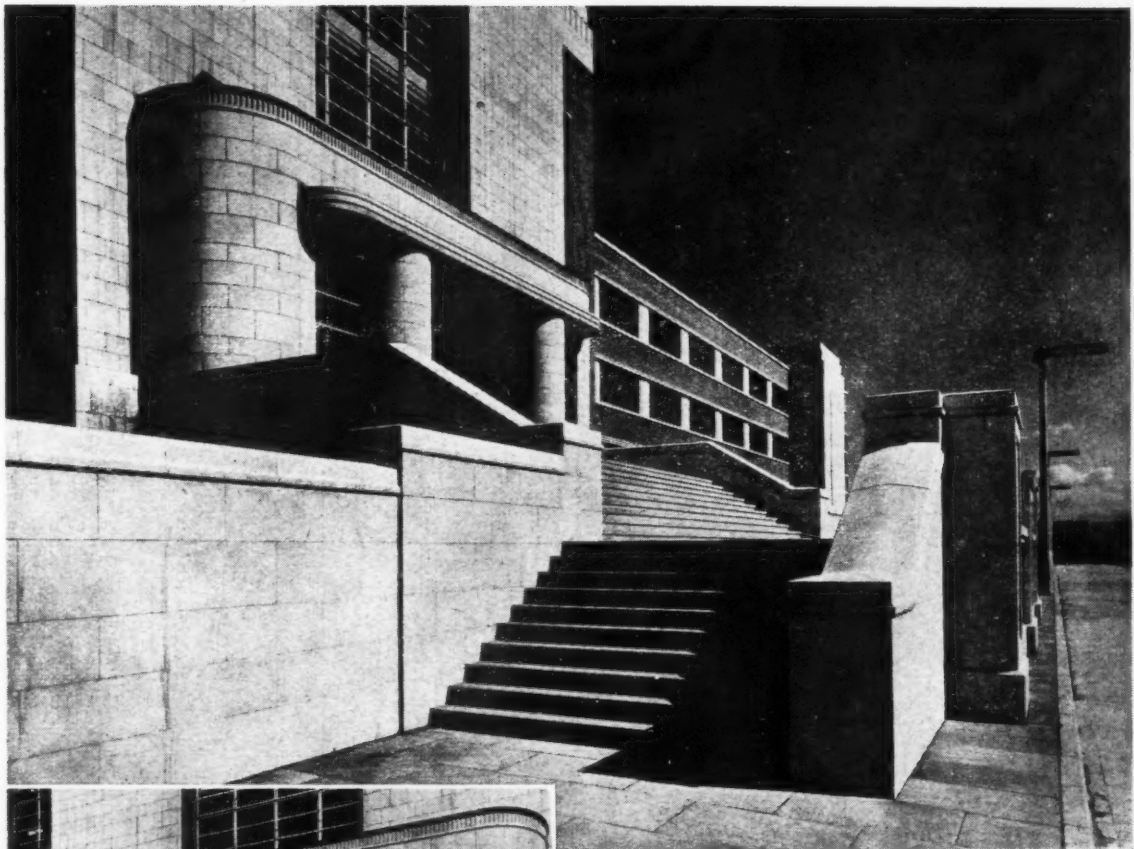
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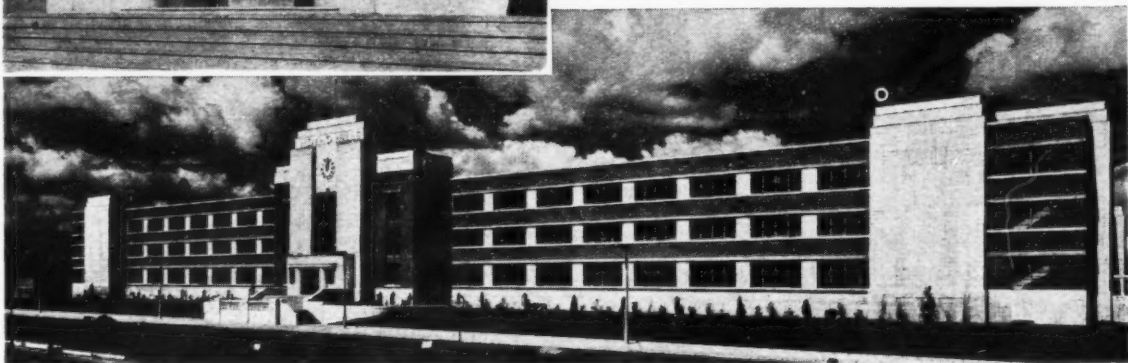


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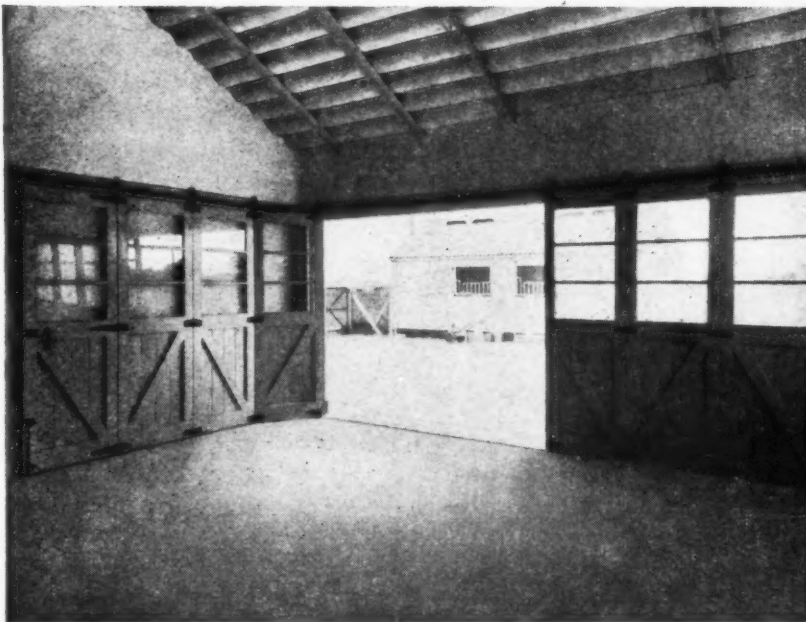
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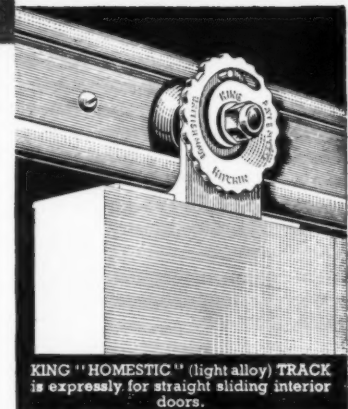
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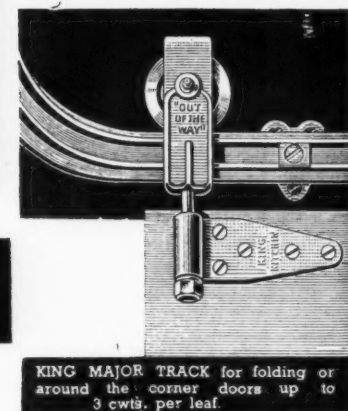
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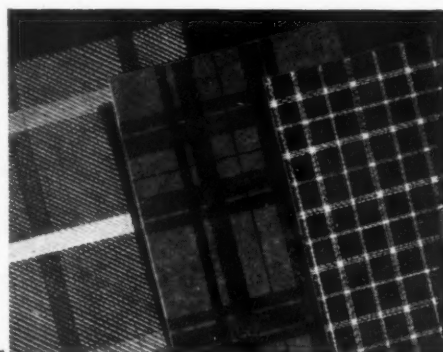
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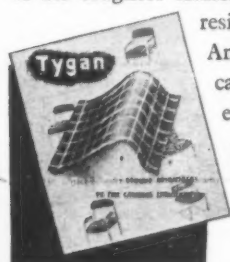
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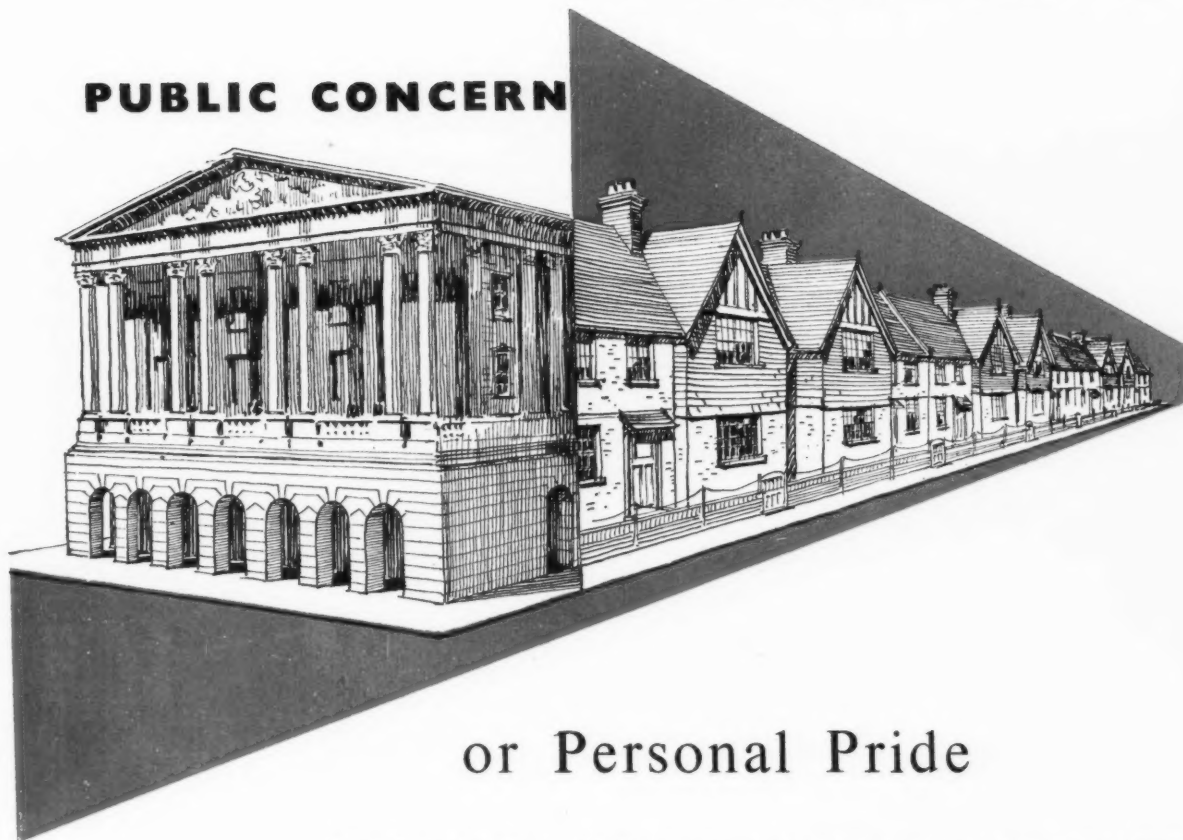
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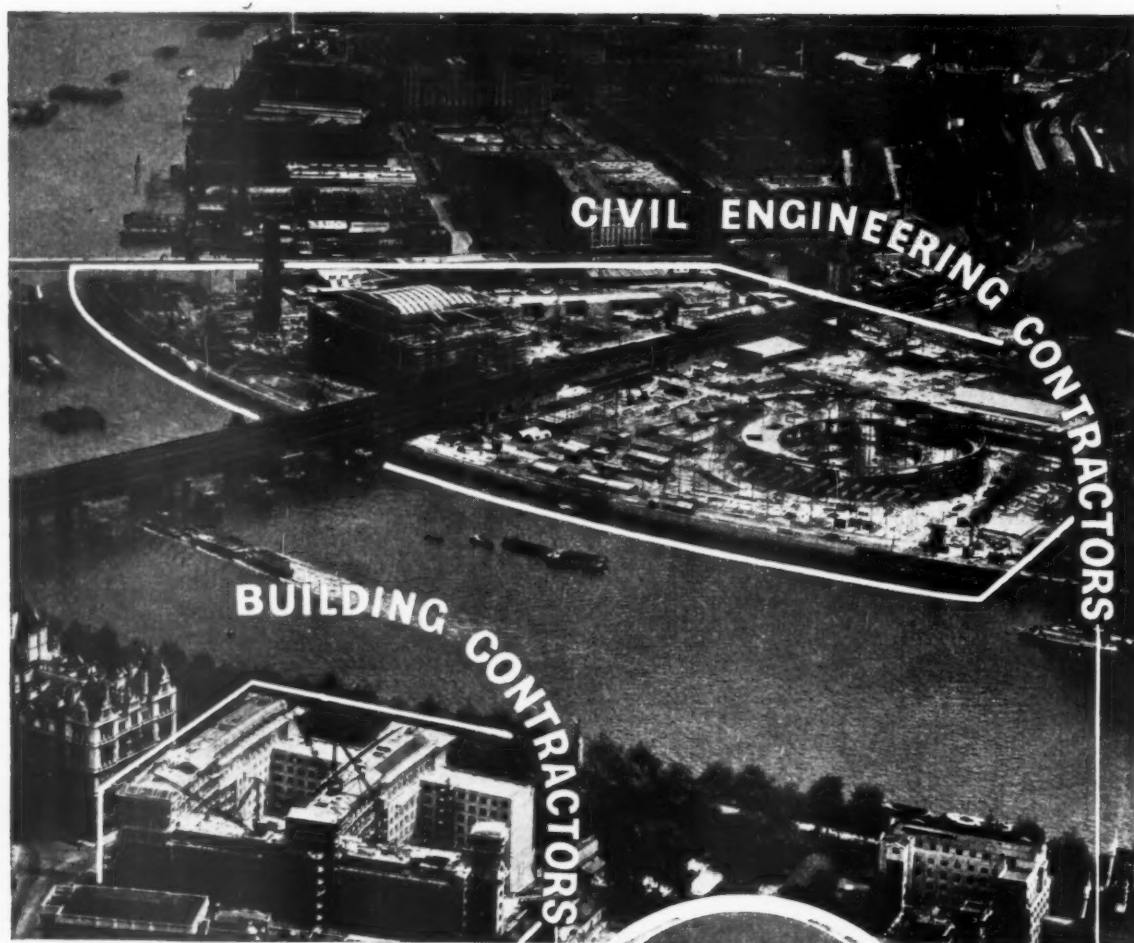
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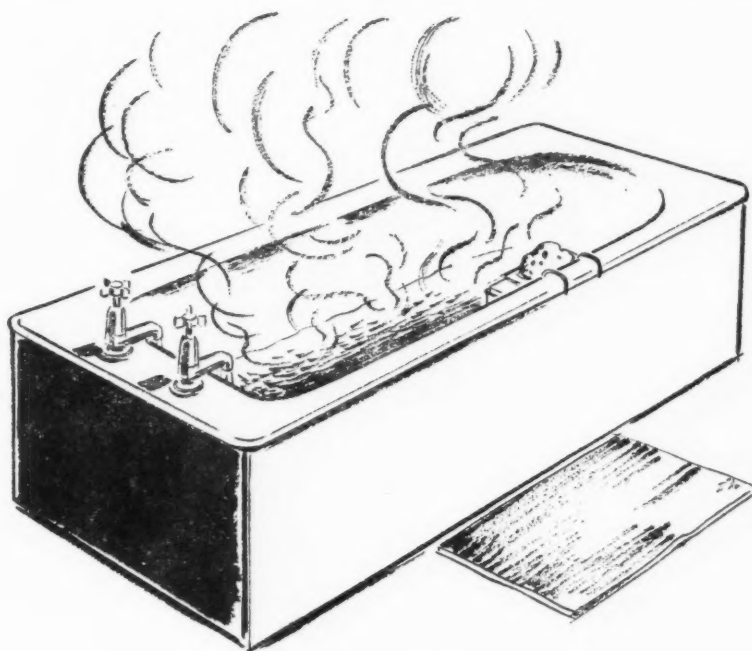
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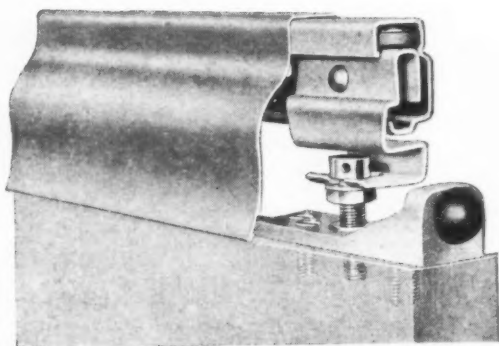
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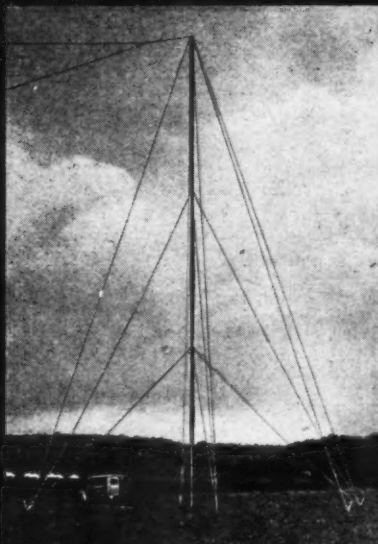
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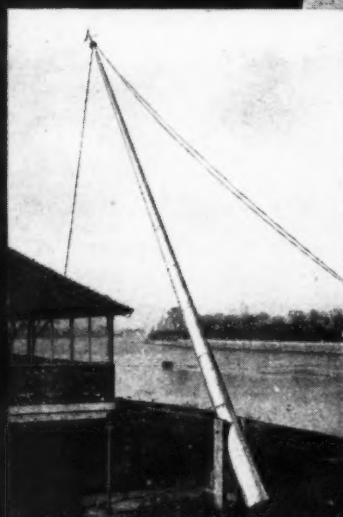
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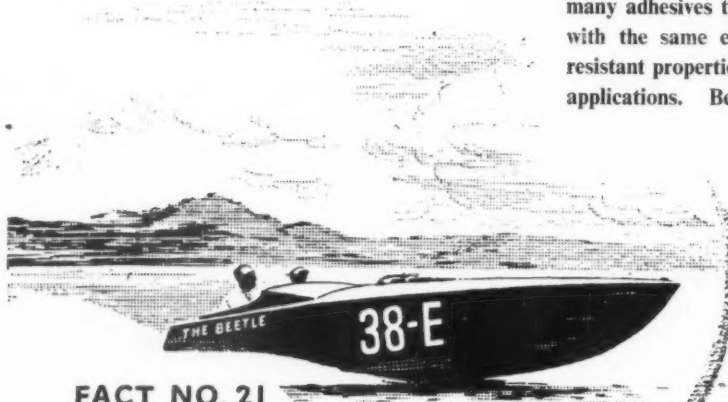


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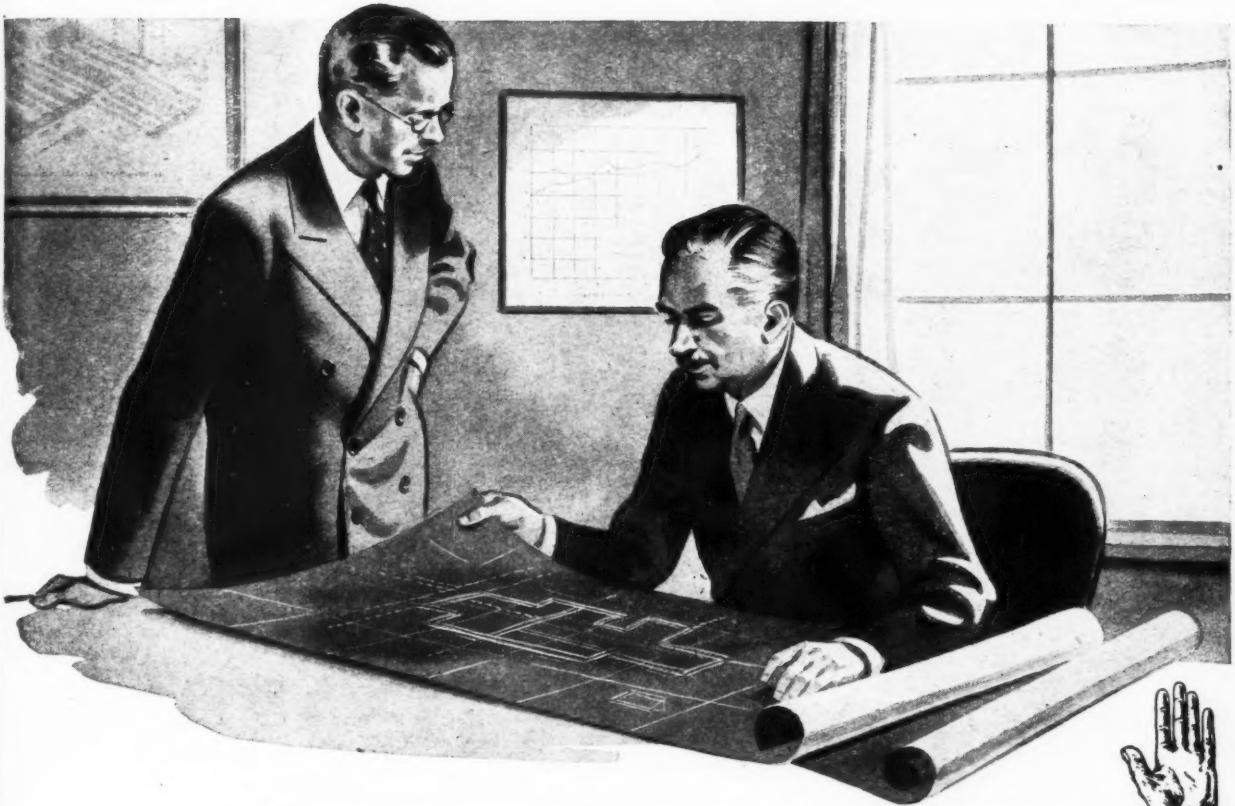
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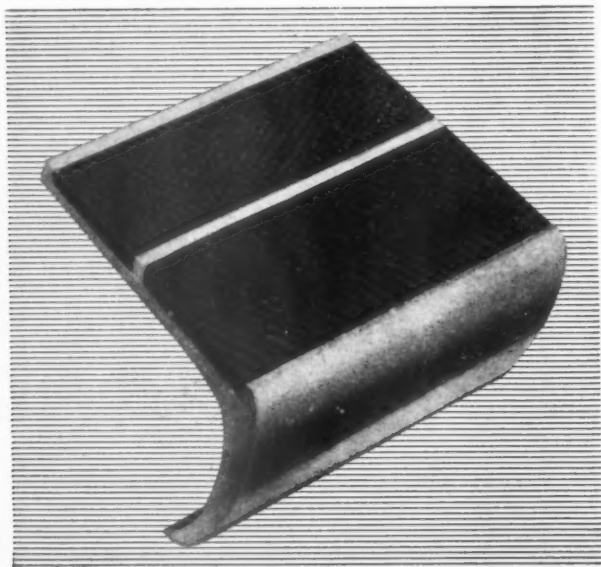


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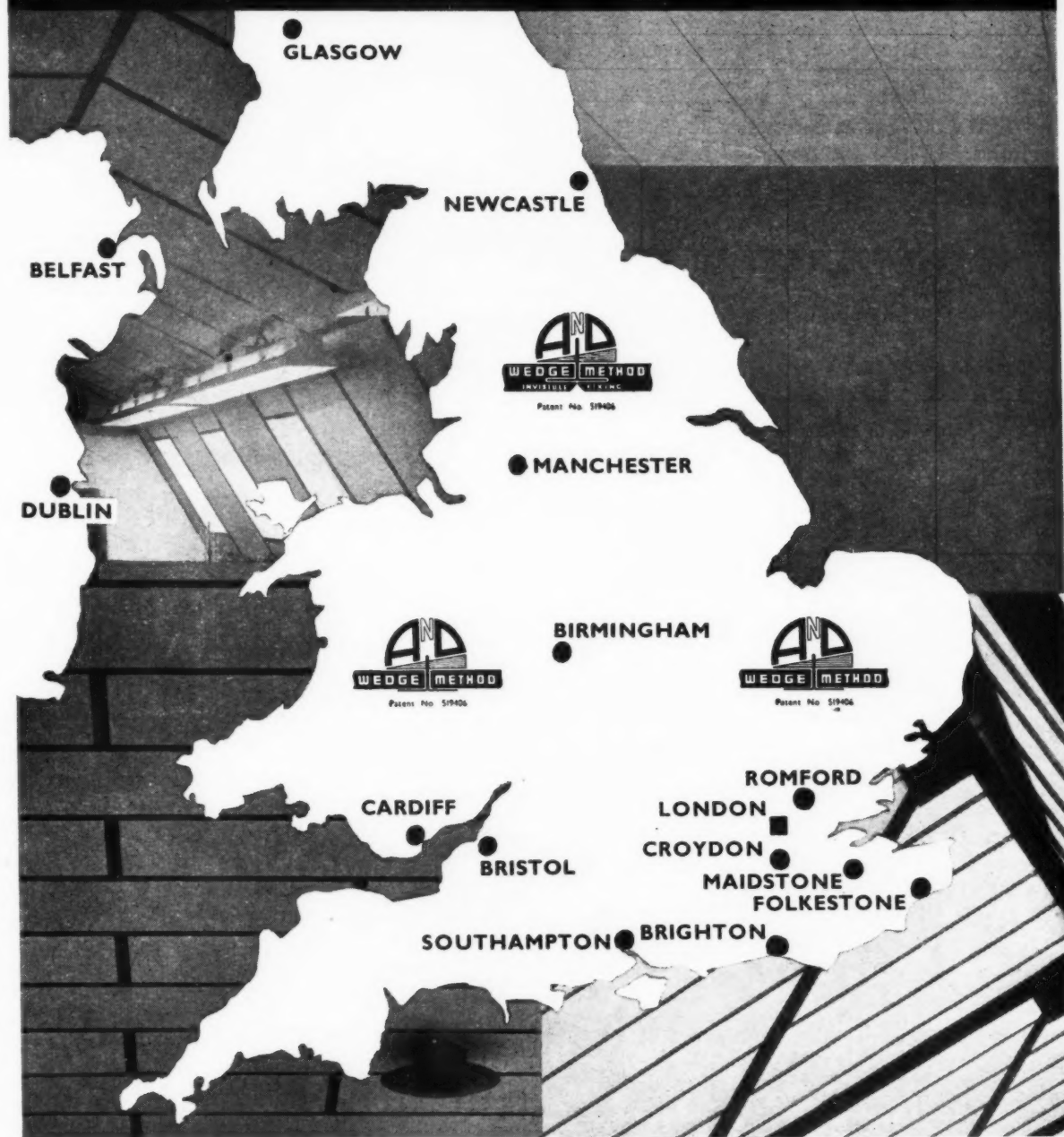
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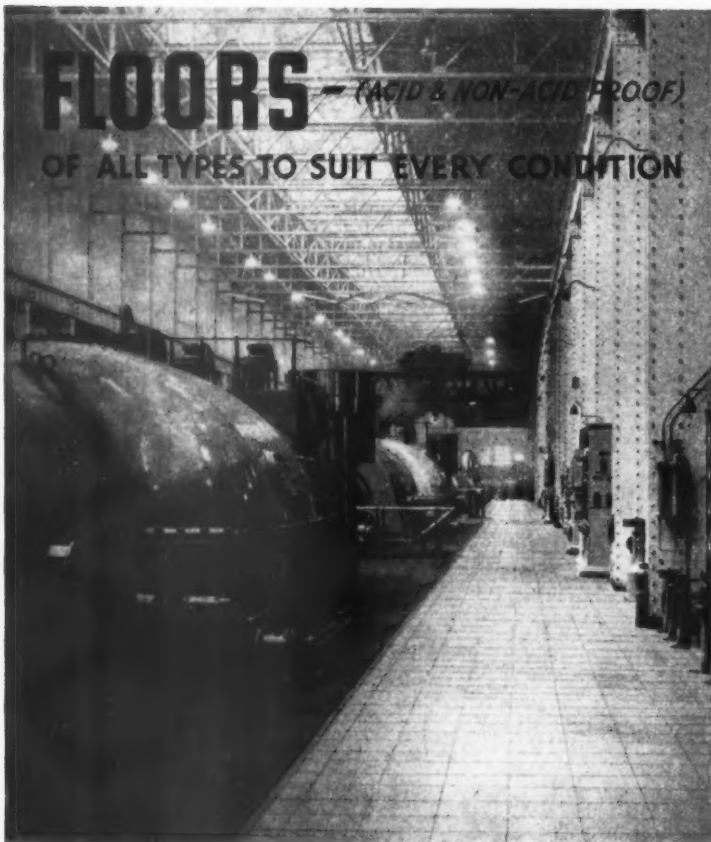
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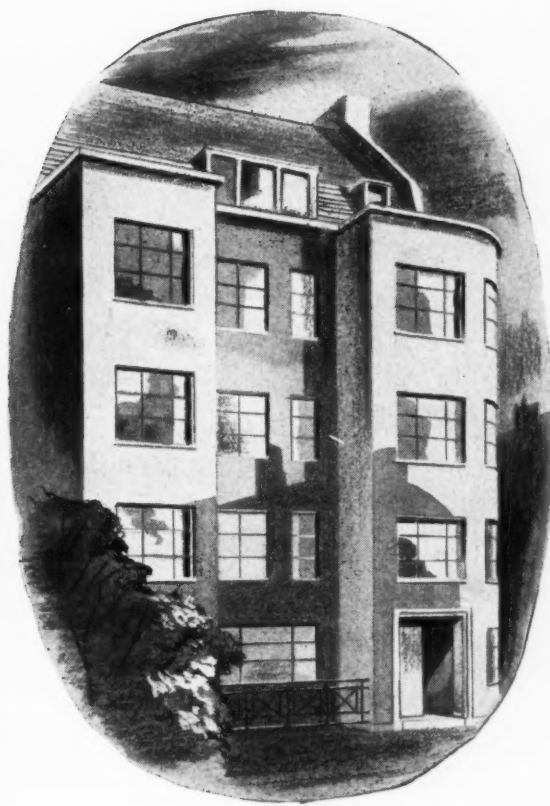
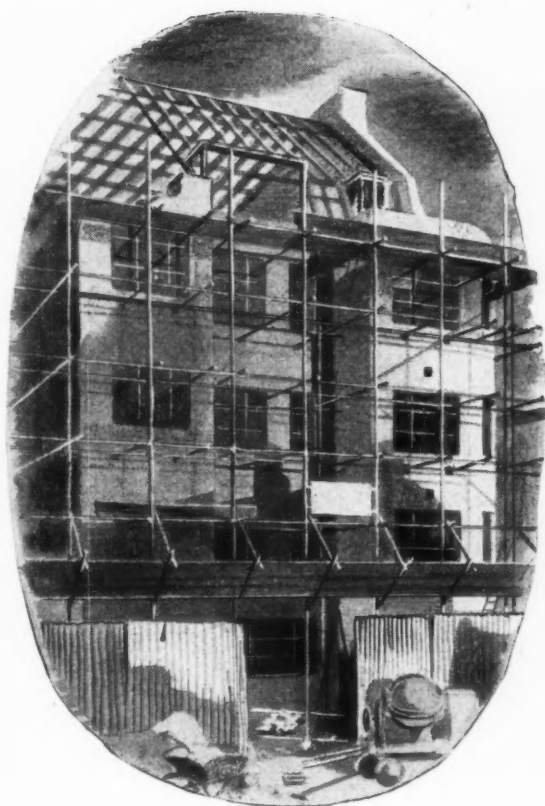


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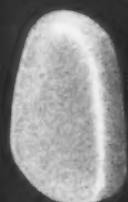
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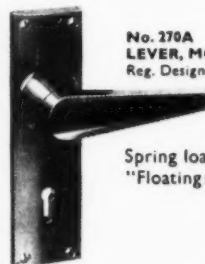
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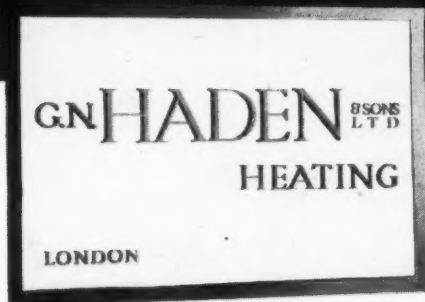


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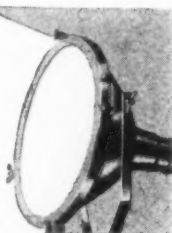
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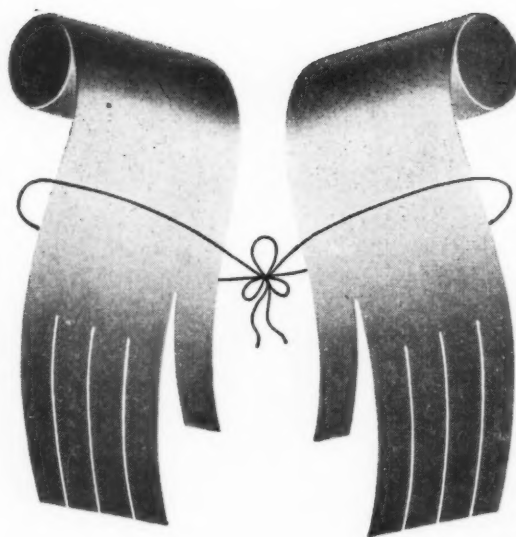
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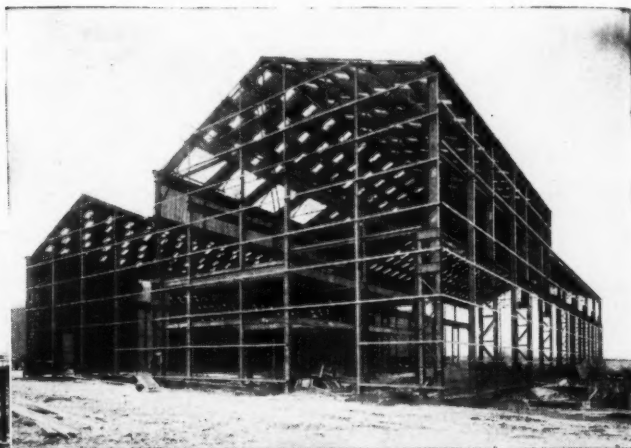
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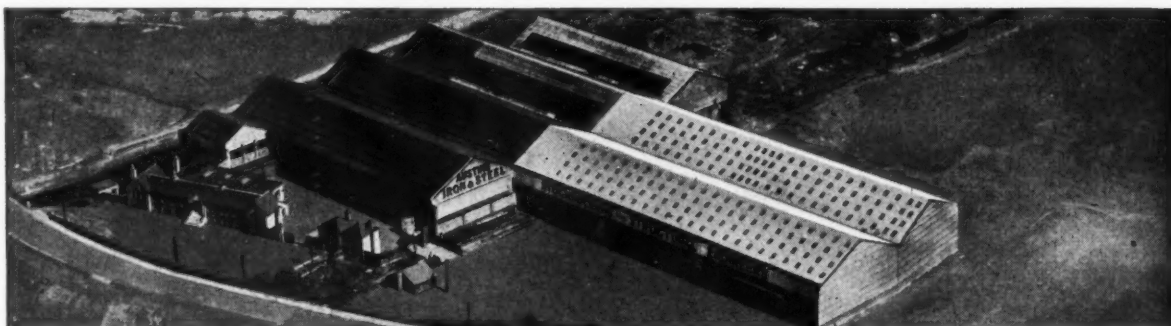
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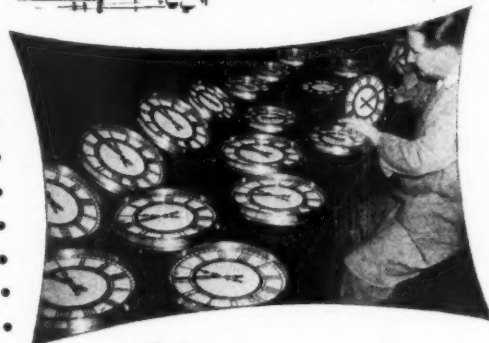
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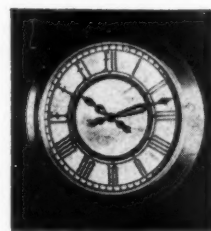
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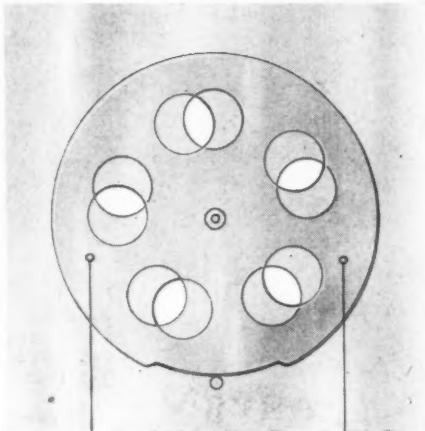
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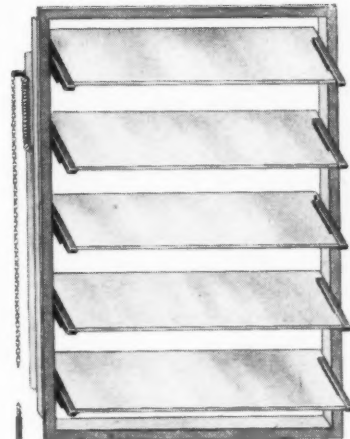
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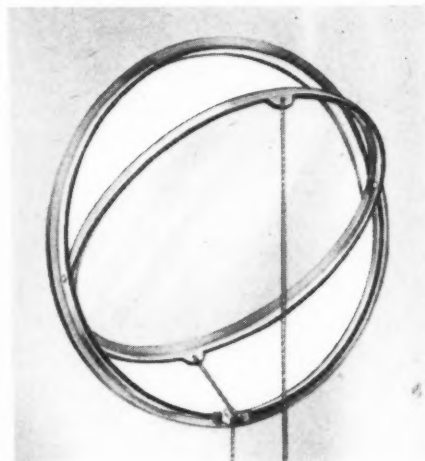


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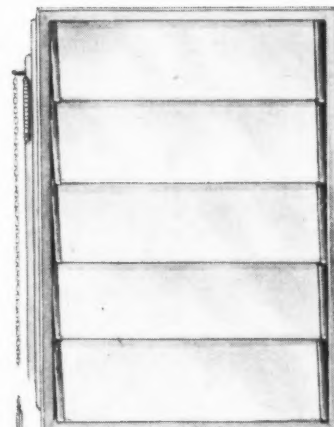
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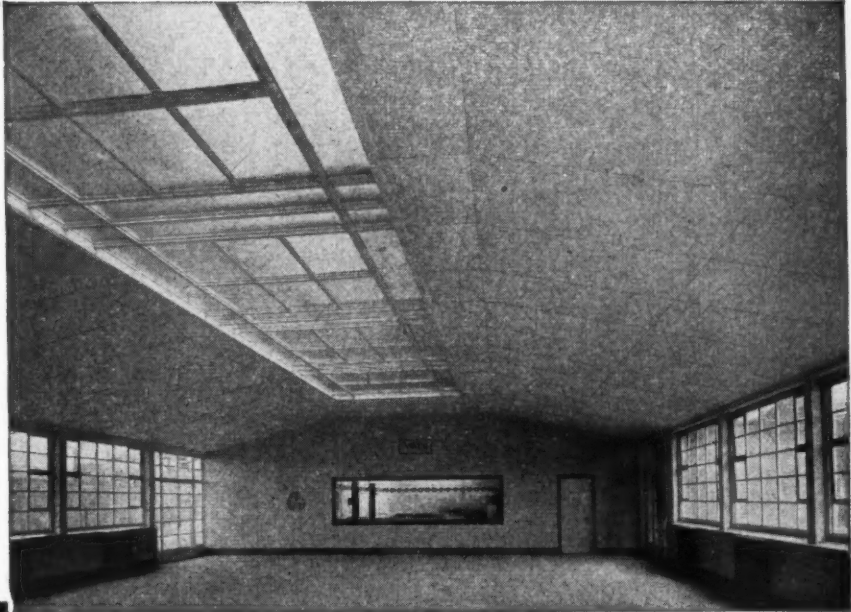
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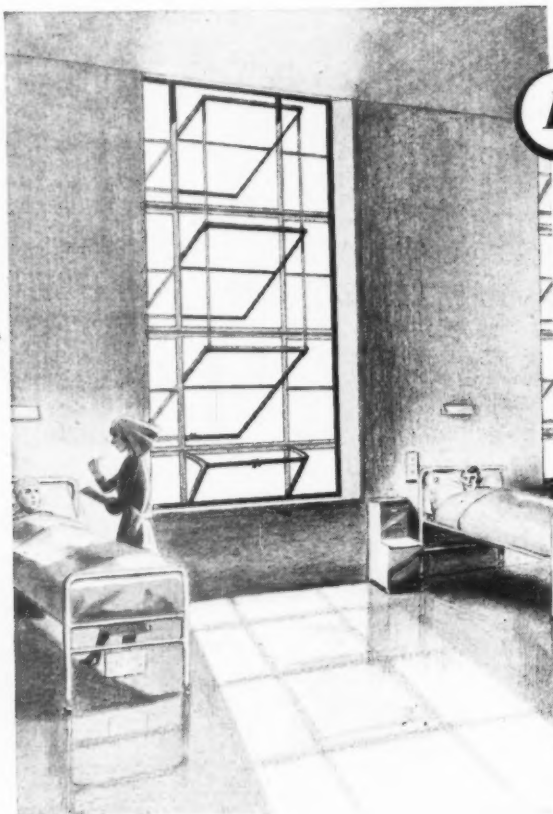
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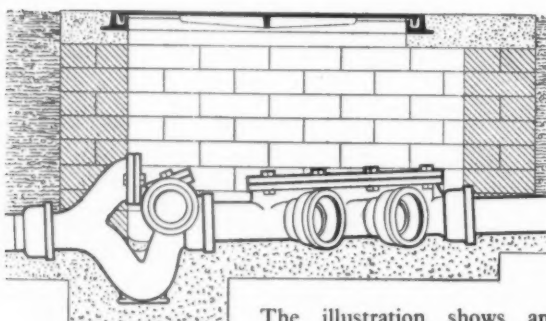
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Why? Because the staff to run records is getting more and more expensive; because the time taken to find and refer to them becomes more costly; because the space occupied by records is daily becoming more precious.

The problem, therefore, is this:

Where can we find a record which is

- (a) Quickly found and referred to
- (b) Speedy for recording purposes
- (c) Economical in space
- (d) Inexpensive in price.?

Take your own activities . . . what method do you use? Files? "Blind cards"? Bound books?

Are your records all housed together? Easy to get at—to enter—to correlate?

Now try to imagine housing all your records *together* . . . visibly. . . And visualise every single one of those records clearly in sight, instantly available, instantly referred to and/or posted.

Would not that be a considerable convenience?—saving much cross-reference and clerical labour? And if, furthermore, one clerk could sit at a desk with *fifteen thousand* records within arms reach, does it not begin to suggest all sorts of economies to you . . . in relation to sales and purchase ledgers, sales records, plant and machinery records, stores and stocks records, personnel records, hire purchase records, etc., etc.?

The upshot of the foregoing is this: a completely new and "streamlined" system has been evolved to handle *all* recording problems. In its creation the outstanding essentials were covered first. That is, it houses any number of records together. It makes each visible. It permits easy removal or insertion of records. It takes up very little room.

And it costs little money and saves a great deal.

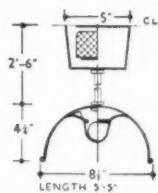
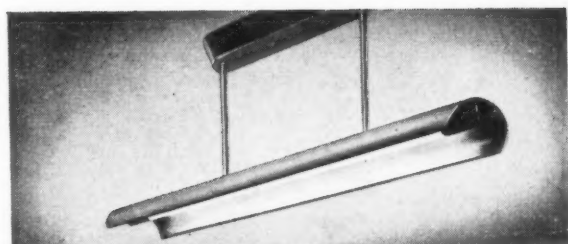
Ought you not—immediately—to know about this latest idea in record control? And may we therefore (without even a moral obligation) show you it? Then please scribble "Shannoleaf" on your letter heading and take the first step towards effecting considerable savings.

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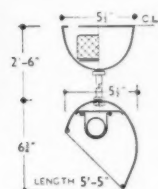
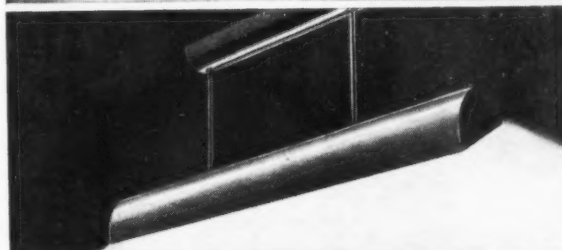
58 Shannon Corner New Malden Surrey



T.6 DIRECT

Finish: Stove Enamelled Off-White.

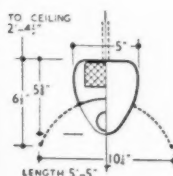
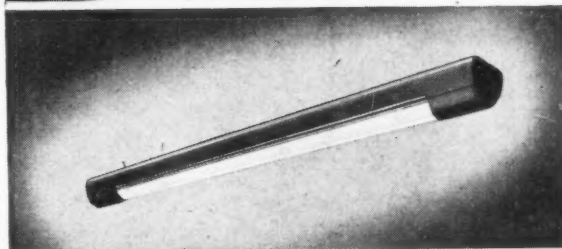
Lamps: One — 5 ft 80w Tubular Fluorescent.



T.7 ANGLE DIRECT

Finish: Stove Enamelled Off-White.

Lamps: One — 5 ft 80w Tubular Fluorescent.

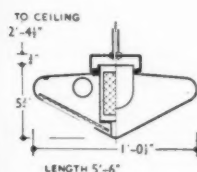
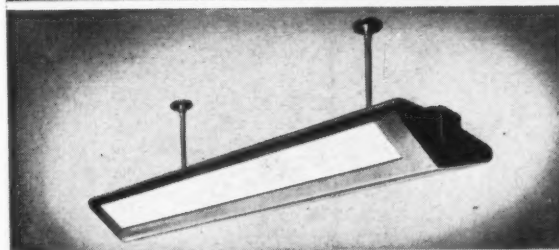


T.8 DIRECT

Finish: Stove Enamelled Off-White.

Lamps: One — 5 ft 80w Tubular Fluorescent.

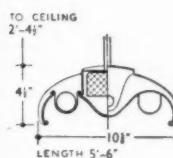
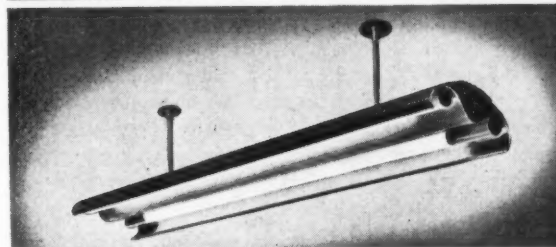
Add the following letters to catalogue number: S—Small Reflector, L—Large Reflector, C—Ceiling Fitting, P—Pendant.



T.2 GENERAL

Finish: Stove Enamelled Off-White. End Pieces Duck Egg Blue, Reeded and Clear Glass. Chromium Suspensions.

Lamps: Two — 5 ft 80w Tubular Fluorescent.



T.3 DIRECT

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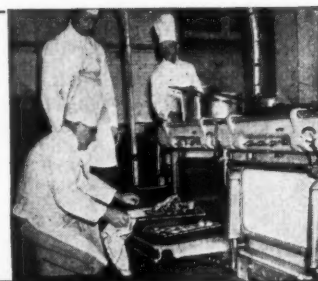
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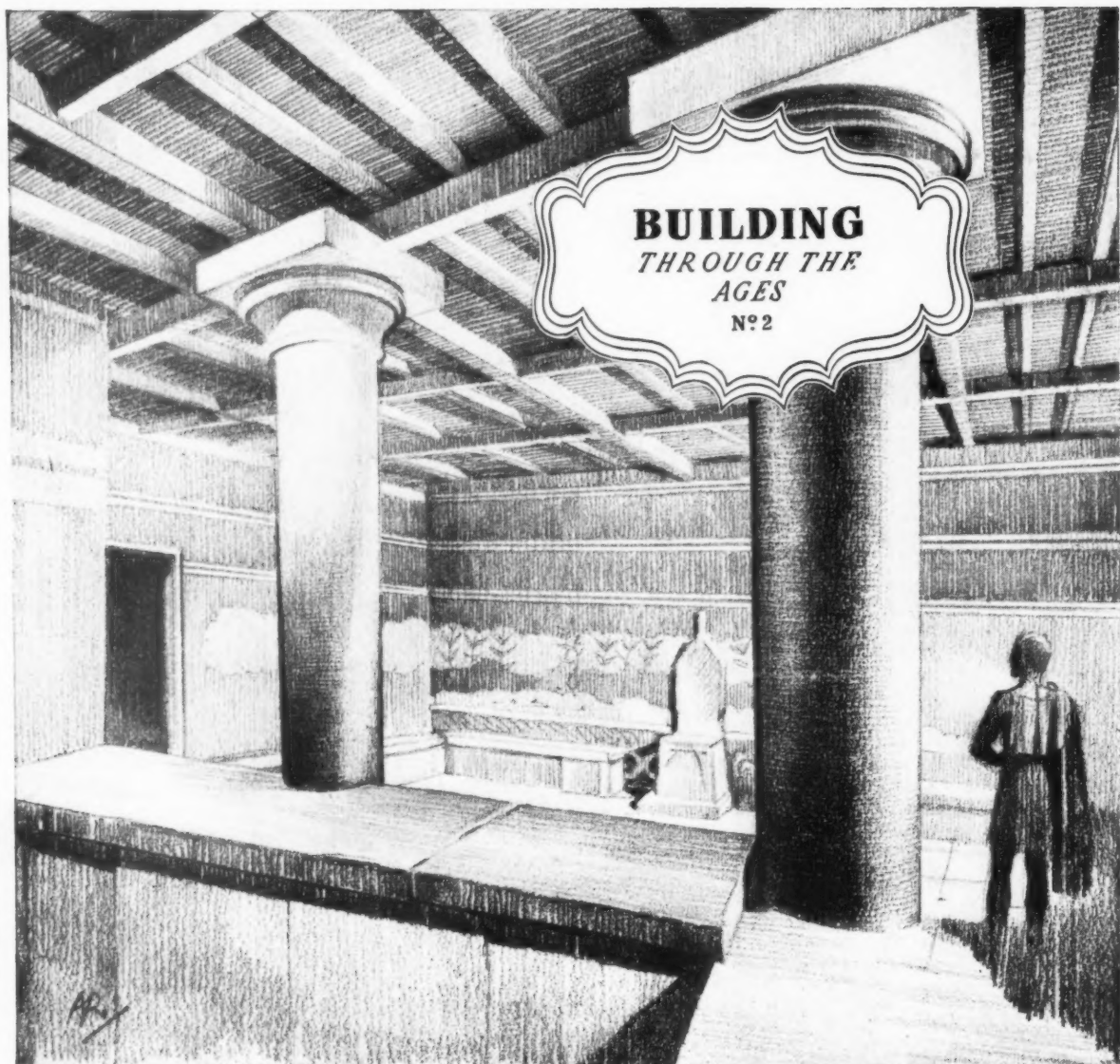




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Minoan Palace at Knossos, Crete, about 2000 B.C.

CRETAN civilisation was one of the earliest in the world, being contemporary with the great days of Egypt, and preceding the much better known Greek period of prosperity.

Centred largely round the royal palace at Knossos, on the island of Crete, there developed a long era of peaceful and progressive existence uncommon in that ancient world. The remains which have been discovered prove the Cretans to have been a people of remarkable artistic and creative ability.

In addition to producing beautiful sculpture, pottery, metalwork, and other ornaments, they set

new standards in building, far superior to anything previously known. The Palace at Knossos was undoubtedly beyond comparison then for size, luxury and building technique.

The picture gives some idea of its interior construction, using wooden beams on great stone pillars. Apart from this original basic structure there were ingenious details such as water pipes all through the place, and many other conveniences we are apt to think were only developed long after that time.

Though Cretan civilisation was eventually wiped out by its enemies, the relics that remain indicate it as a bright spot in the world's history.

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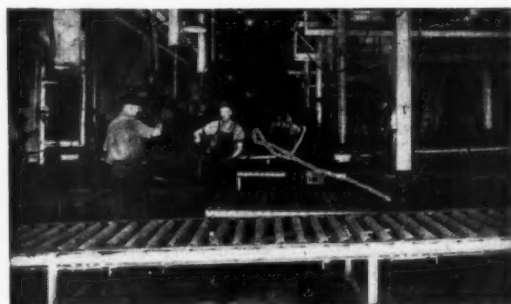
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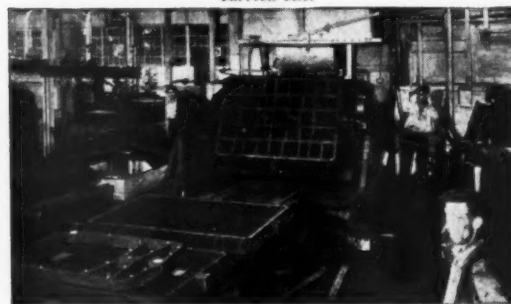
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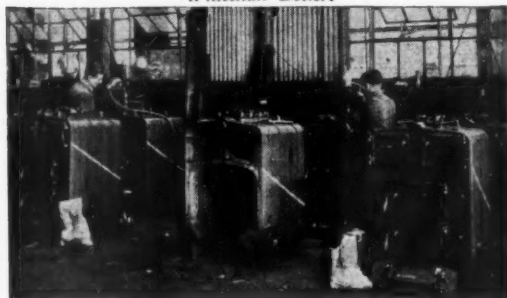
BRANCHES: BIRMINGHAM, BRENTFORD, BRISTOL, GLASGOW, MANCHESTER



A general view of the Crane foundry in which the first operations in the production of 'Whitehall' boilers are carried out.



Moulding the intermediate sections of the Crane No. 4 'Whitehall' Boiler.

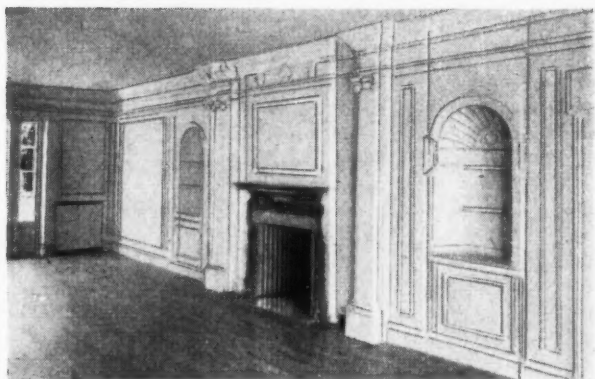
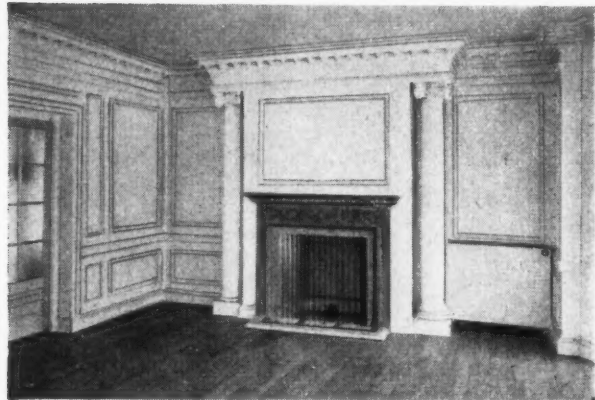
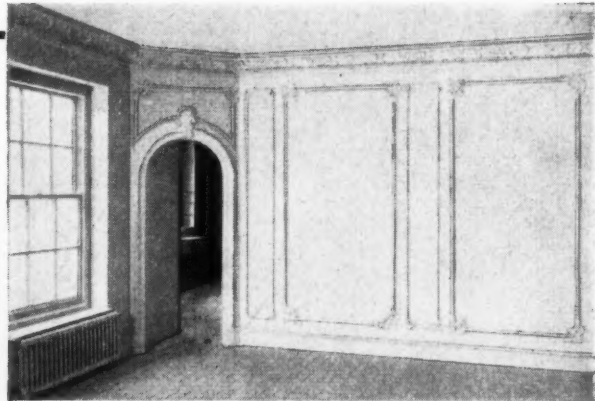


After each unit has passed through the machine shop and been thoroughly inspected, the boiler is assembled section by section for a final test of 100 lbs. hydraulic pressure, and is then dismantled to await despatch.

Fibrous Plaster

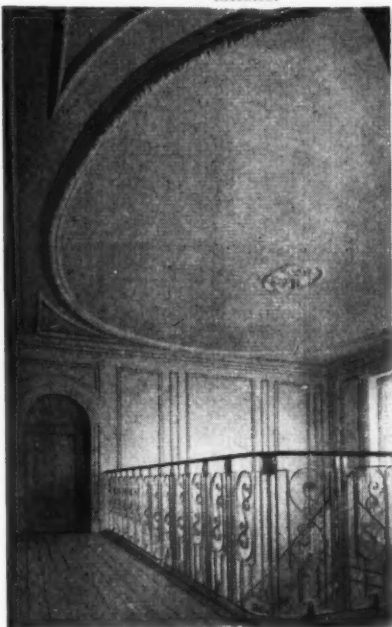


Photographs of work recently executed.



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Windows to look at...

Today, at the new Stevenage School, the windows and doors have become showpieces of skilled design and manufacture: a tribute both to the Architects, F. R. S. Yorke, F.R.I.B.A., E. Rosenberg and C. S. Mardall, A.R.I.B.A., and also to the window-makers they specified: Williams & Williams Ltd., of Chester.

The new Stevenage school is a study in the intelligent use and manufacture of windows: they form, with their slender, graceful lines, an attractive and yet strictly economical cladding to the structural steel frame. Vast areas have been filled with glass and steel. Nevertheless on examination it will be seen that the amount of metal used is surprisingly small. The Architects planned an 8 ft. 3 ins. window module, and Williams & Williams engineers designed a series of standardised components which were assembled in different ways for each category of window in the building.

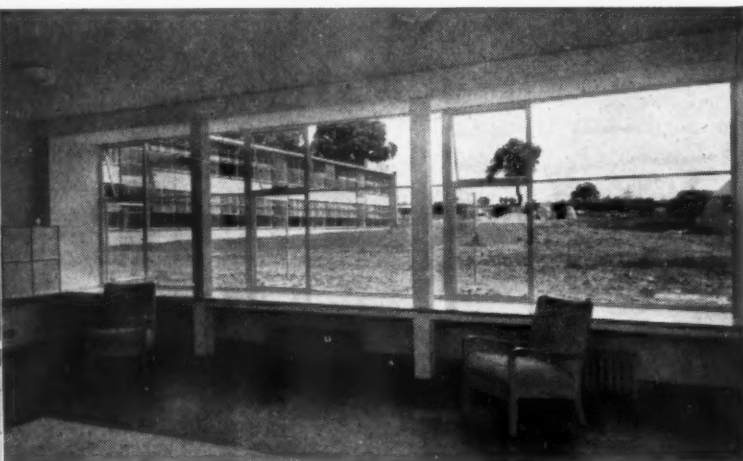
The window most generally used had a fixed light below transom and opening lights above. All the latter were interchangeable—a factor which greatly facilitated erecting and glazing. The stanchions were masked externally by uniform pressed metal cover plates and no screws or bolts were visible.

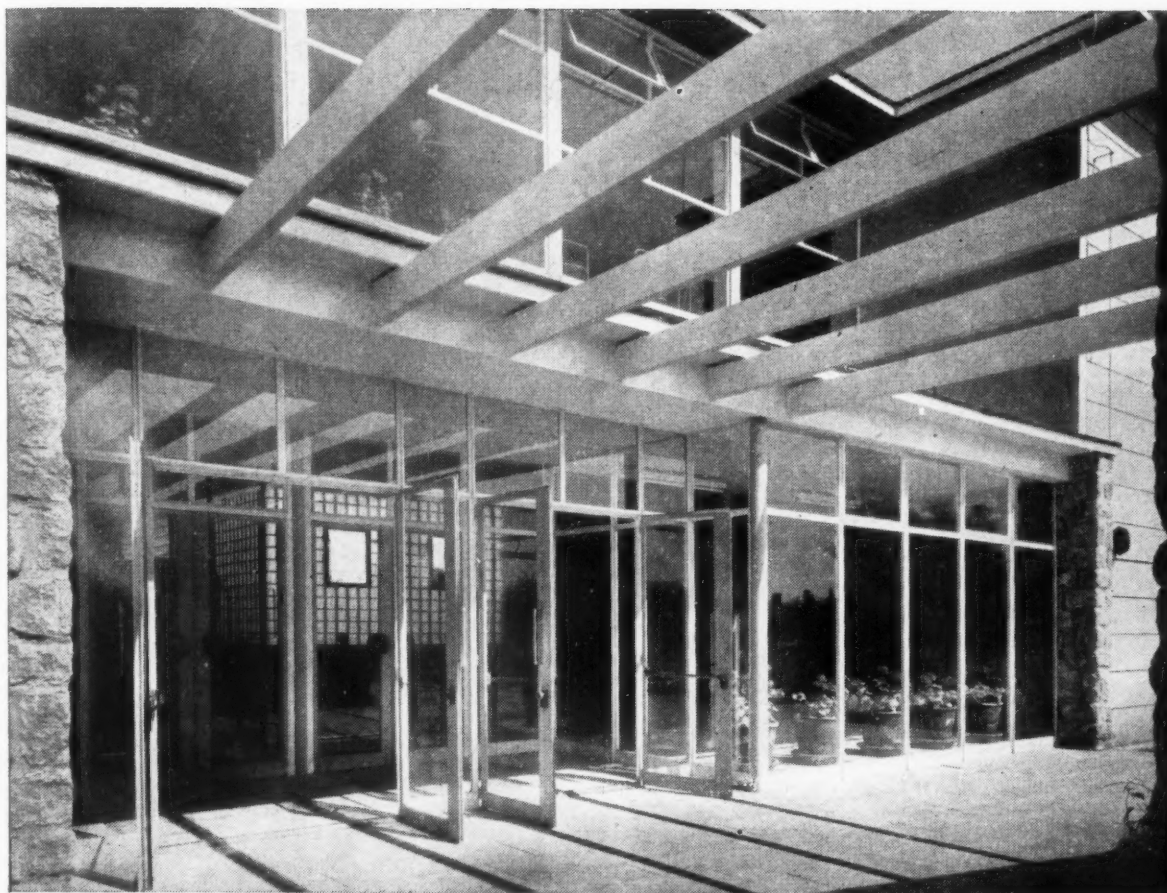
Four in one The main staircase window is composed of four 8 ft. 3 in. module units set in an opening 33 ft. x 20 ft. Williams & Williams made the transoms form the bracings for the stanchions, eliminating the need for heavy-looking structural steel members. The result is a simply-styled window perfectly in keeping with the character of the building.



Windows with fins Streamlined aluminium sunshields, deflectors and cills (left) specially designed for the building by Williams & Williams form part of the windows of the special subject classrooms in the main block. The vertical fins are 12 ft. high and project 1 ft. 9 ins. The horizontal deflectors which shield the ground floor windows from overhead sunshine are pivoted to raise and lower for ease of cleaning.

Staffroom with a view The light and pleasant staffroom (below) is an example of the use of Williams & Williams windows to fill wall space to advantage. The area is spanned by a range of alternating fixed and opening lights, the metalwork of which is neatly proportioned both for the sake of appearance and for economy in the use of steel. Through these windows the sunlit south elevation of the main classroom block is clearly visible.

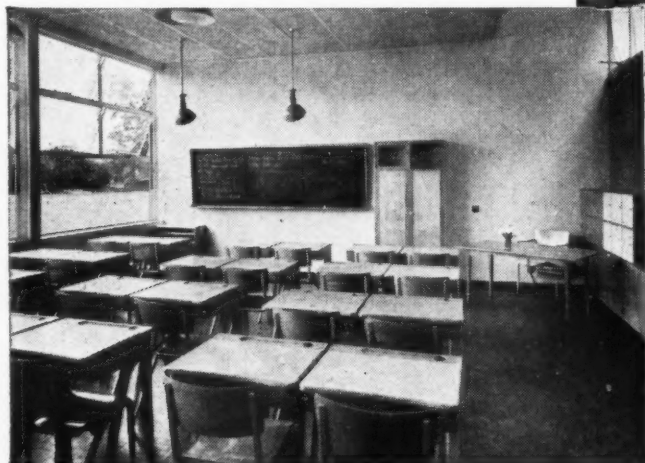




Loggia entrance The photograph above shows the main entrance to the new Stevenage School. It is a happy combination of good design and adroit use of standardised purpose-made units. The metal doors are well-proportioned and in keeping with the range of sidelights to the right and also with the sunlights above. It will be seen that Williams & Williams have incorporated the structural round columns of the building in the general window design and have given special emphasis to them, using them as the main mullions. Above the main entrance a series of the general windows accord naturally with the overall style of the entrance facade.



A light hall Doors and windows along the two longest sides of this hall offset the comparative lowness of the ceiling and contribute to a light and airy appearance.



One of the class rooms This classroom is typical of the new Stevenage school: the main windows on the left are of the general pattern, on the 8 ft. 3 in. module, and there are also smaller windows along the top of the right hand wall to increase the admission of daylight.

The aluminium cills and pressed metal stanchion plates and sun deflector fins at Stevenage School were so well liked that these features are now being incorporated in other schools, together with windows and doors designed and made by Williams & Williams Ltd. at the Reliance Works, Chester.

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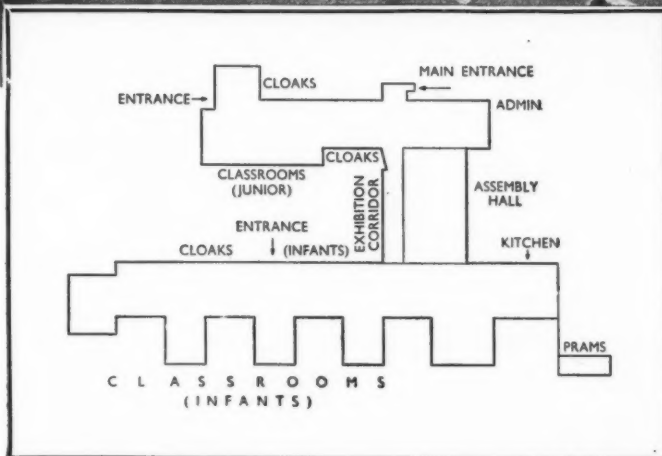
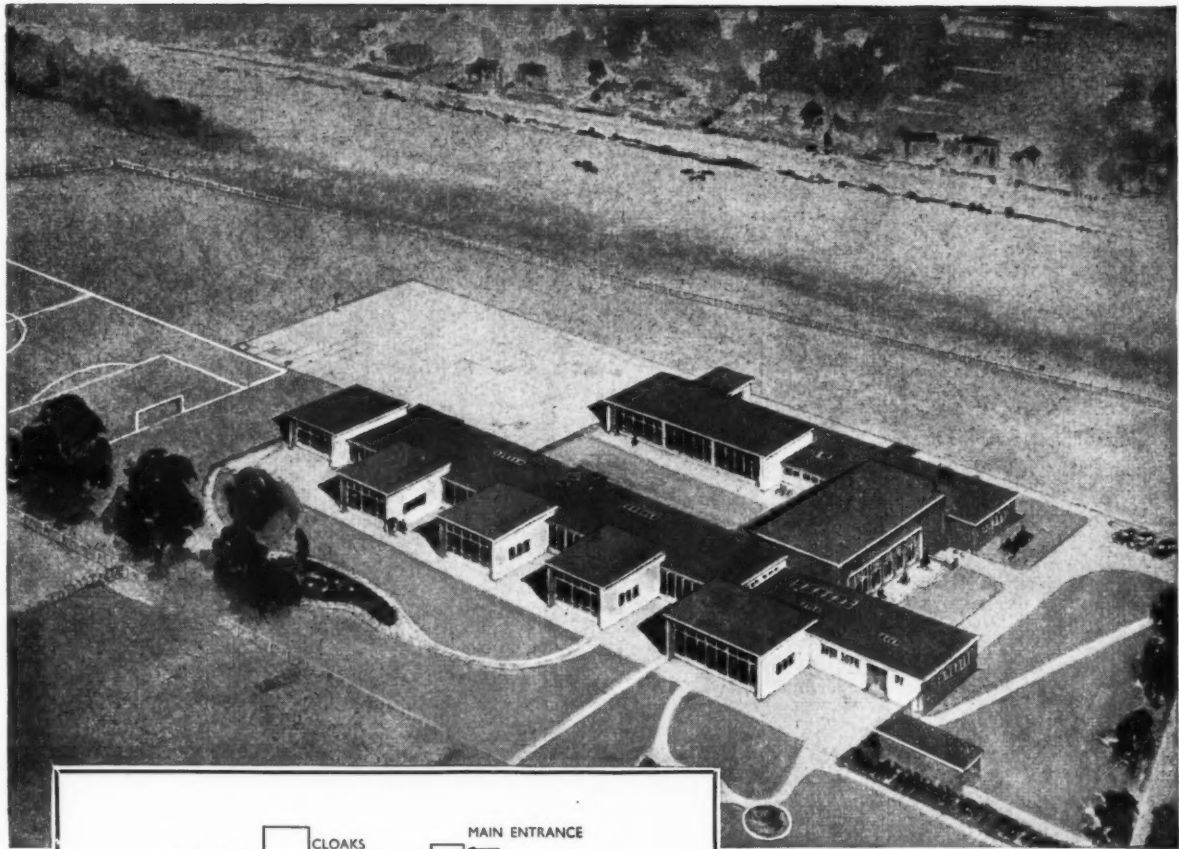
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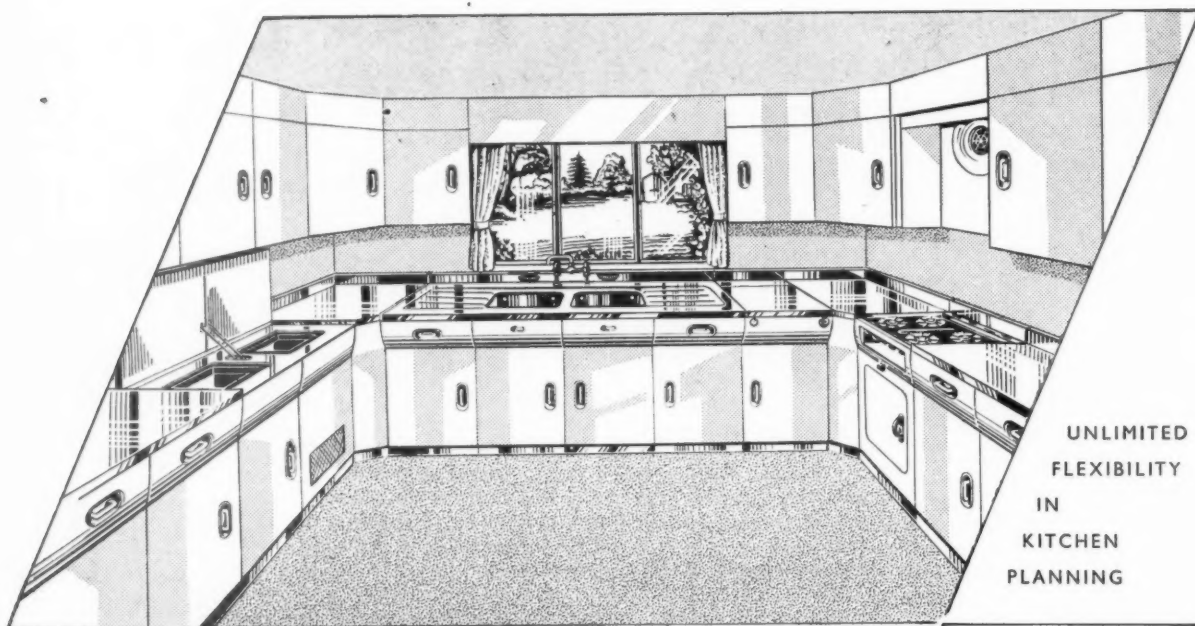
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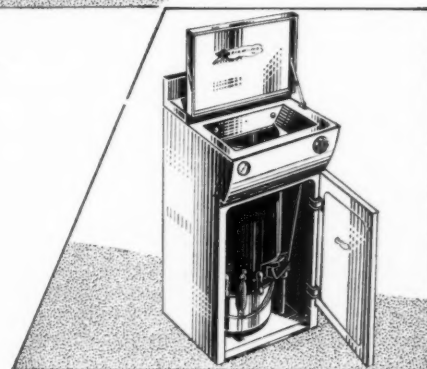
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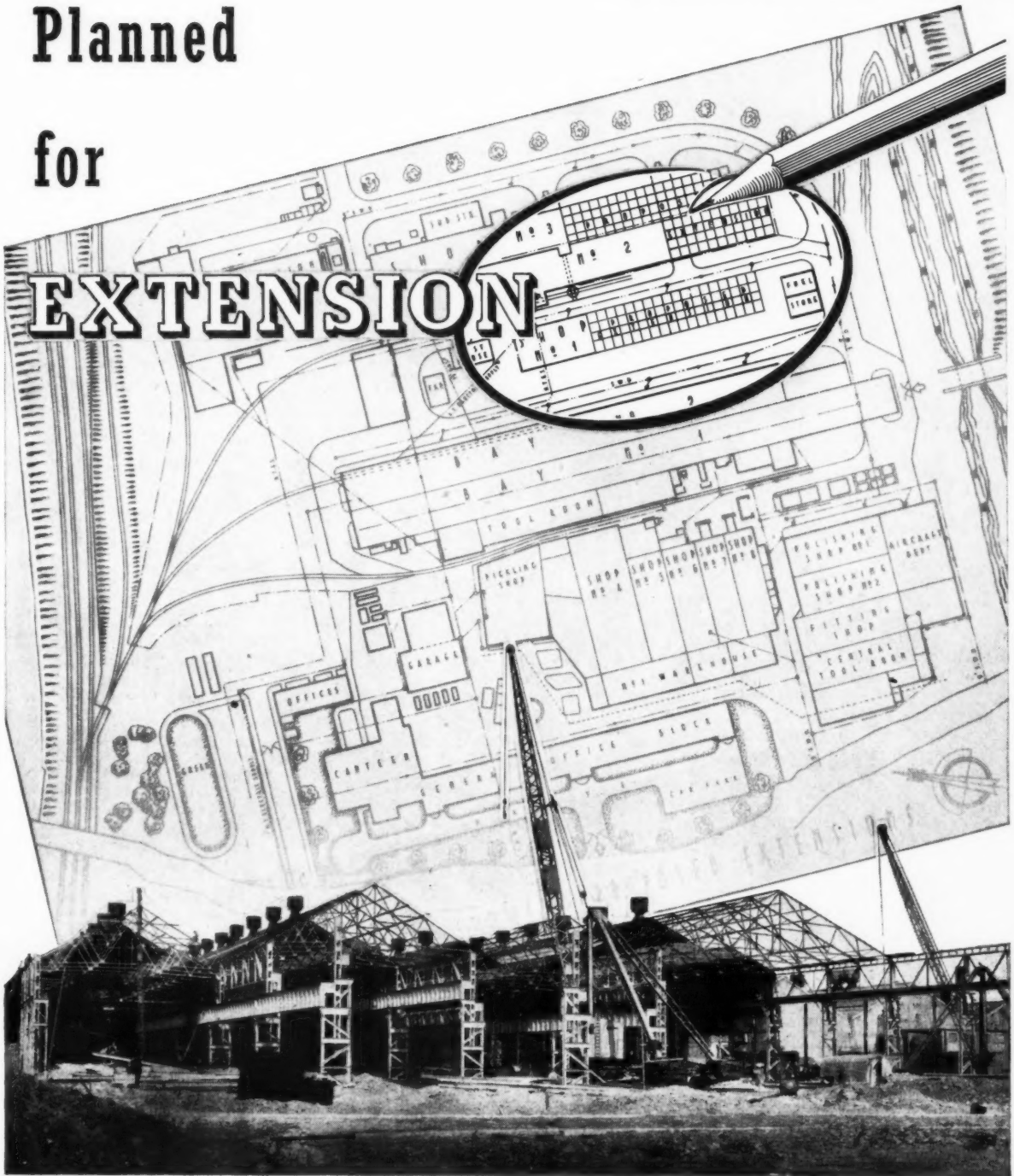
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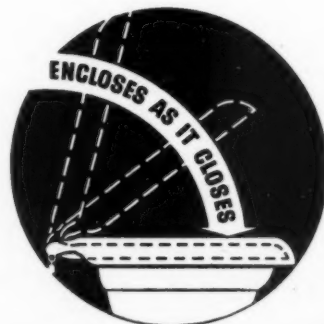
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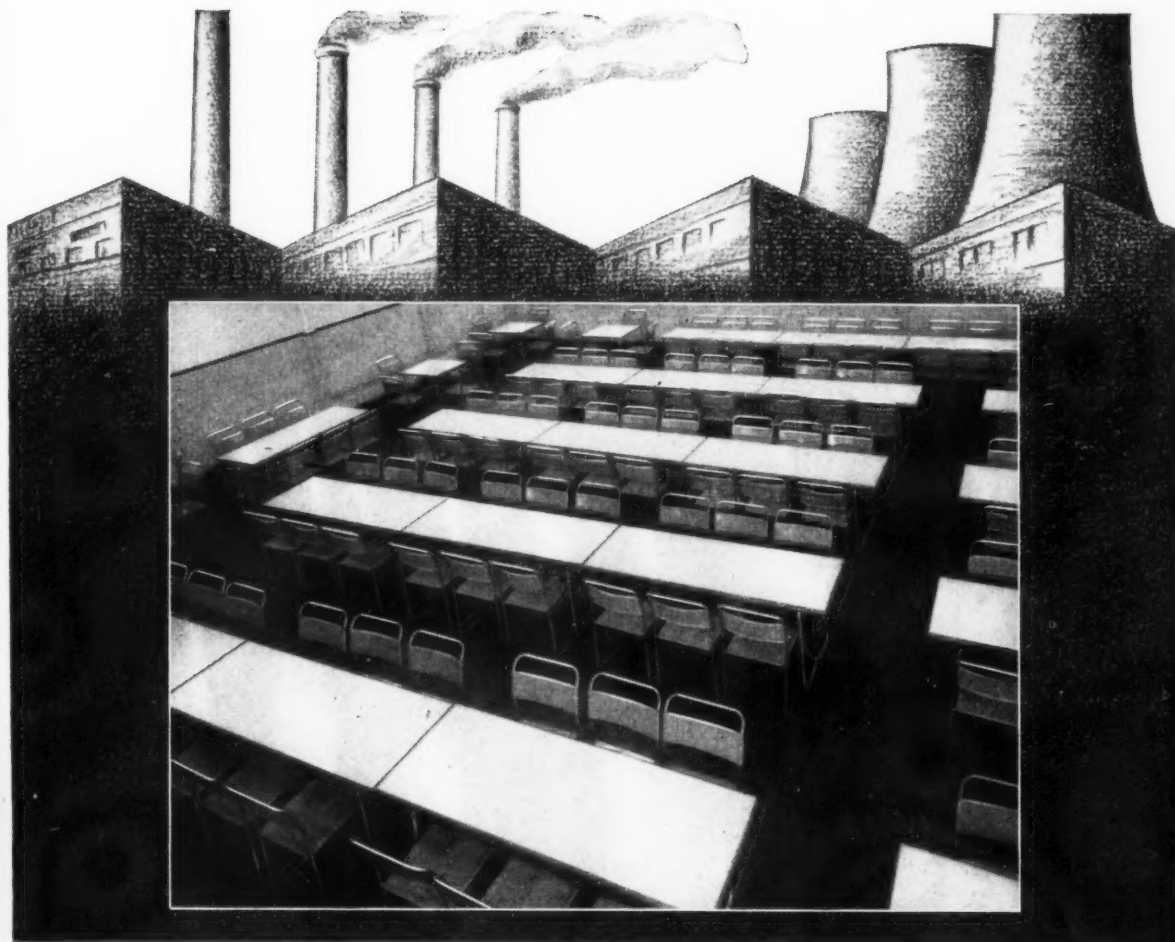
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The photograph, reproduced by courtesy of the British Electricity (London Division) Authority, shows the canteen at the Deptford Power Station equipped with Kingfisher Tubular Steel Nesting Chairs and Tables. The table tops are made of a special scratch-proof, abrasive-resistant plastic.



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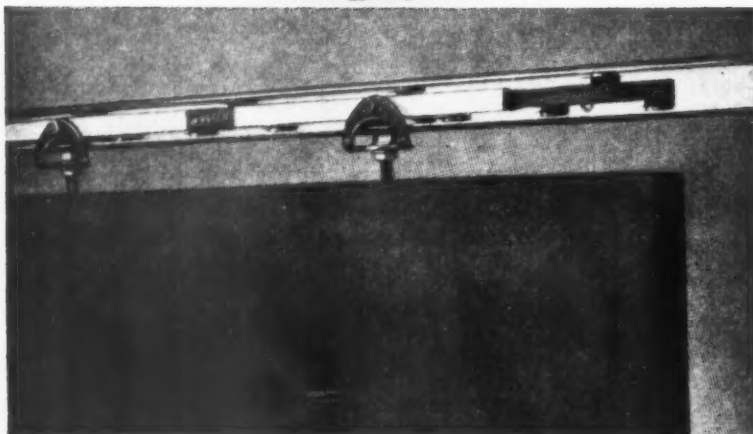
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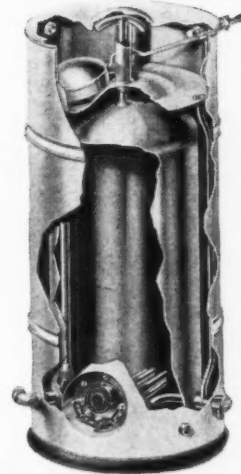
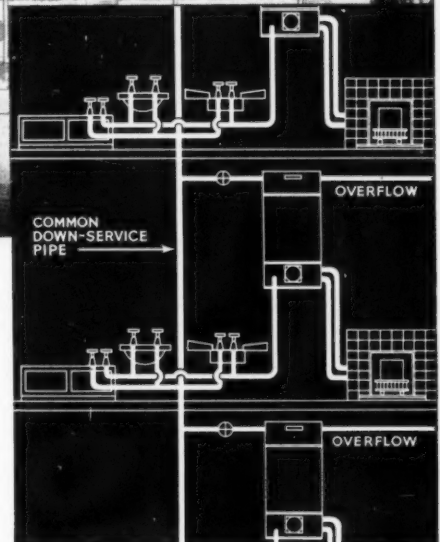
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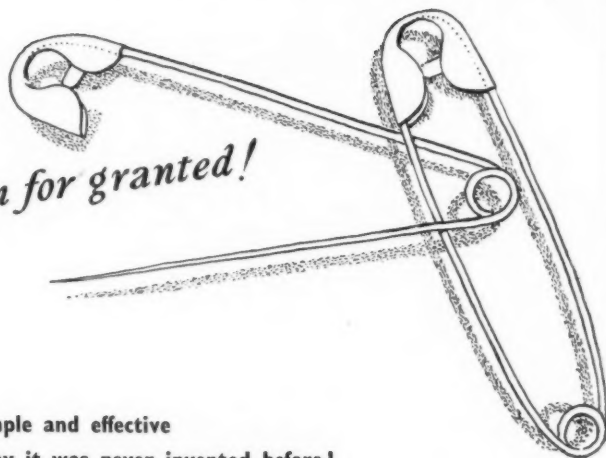


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Unwritten letters to a young architect

No. 9

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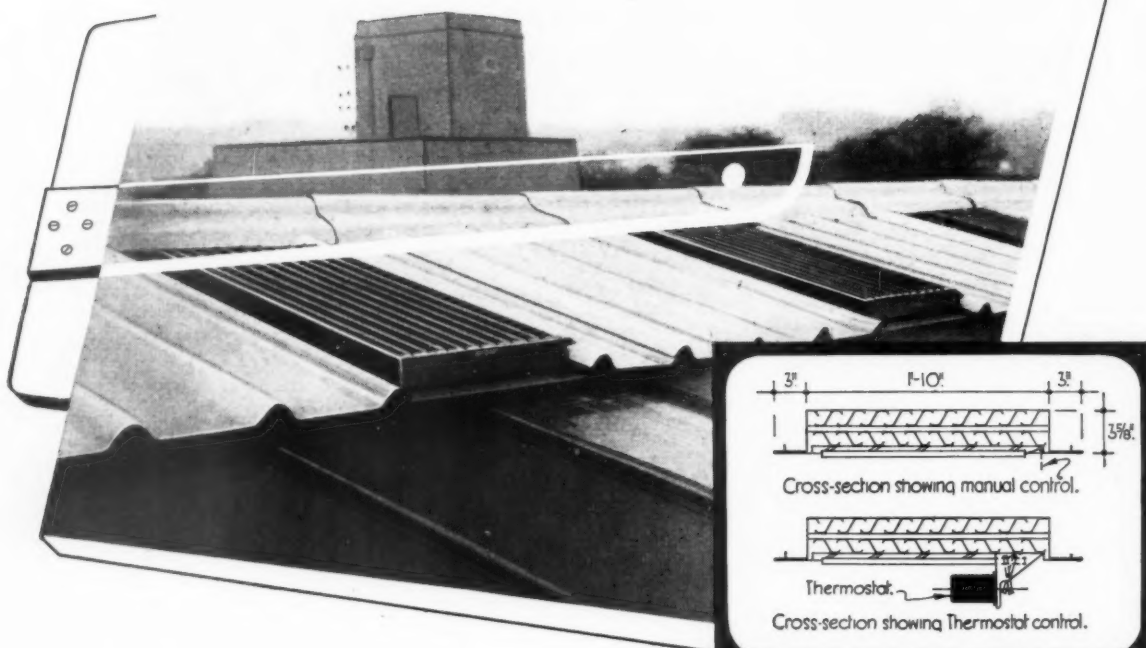
I can see no advantage in an extensive tender list. There is always some firm whose price is apparently much cheaper than others--for reasons which do not help the Architect or the job--such a firm should be avoided.

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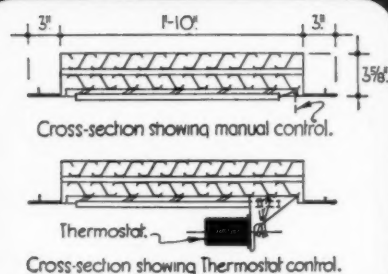


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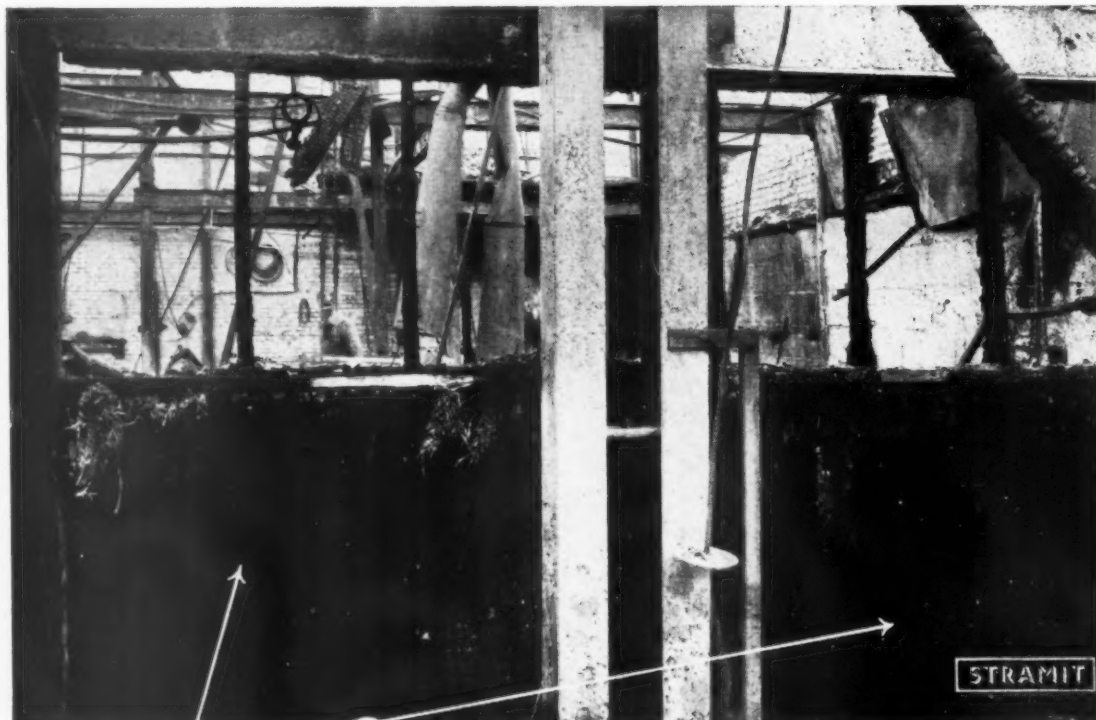
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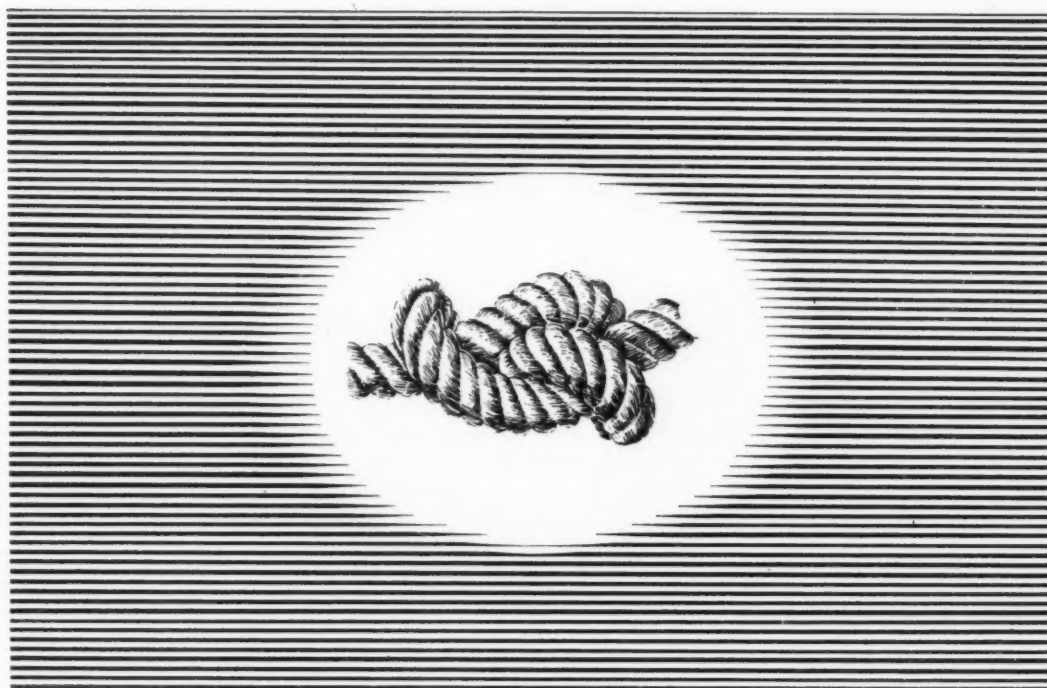
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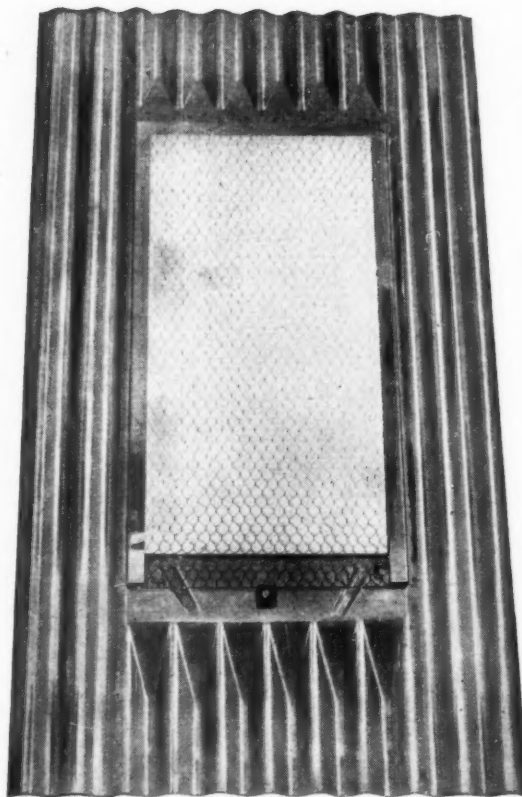
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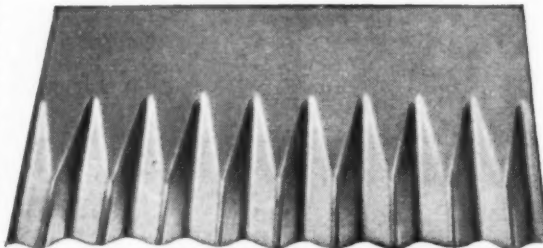
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THE BRITISH ALUMINIUM COMPANY LIMITED SALISBURY HOUSE LONDON EC2



THE ARCHITECTS' JOURNAL

No 2909 30 NOVEMBER 1950 VOL 112



THE WESTMINSTER SITE

It seems to me that the writers of the letters that have lately been appearing in *The Times* about the site of the old Westminster Hospital have got themselves into some confusion. There are really two separate issues: the design of the new Colonial Office which it is proposed to build on the site (which most people seem to dislike and which everyone seems to agree, whatever its qualities as a building, is far too massive and overpowering to stand in such close proximity to the Abbey) and the question of whether the site should not be left as an open space.

*

I suspect that some of the people who have been supporting the plea for an open space have really done so because they feel that to be the best way of getting this particular building

scheme reconsidered—which they regard as the urgent objective, after which the ultimate use of the site can be decided at leisure. I cannot believe they really want the whole of the site to remain unbuilt-on, creating open vistas just where the abbey precinct requires to be closed off.

*

The danger is that by insisting on a completely open space they demand more than the Government can possibly concede for financial reasons, and thus give the Government an excuse for going ahead with the original scheme.

*

Has not the time now come to put forward an alternative scheme, which the Government would find it difficult to turn down? This would involve putting up a more modest building, set back further from Broad Sanctuary, thus utilising the site which has been acquired at such expense and at the same time meeting the criticisms of those who object to the size and overpowering scale of the building now proposed. Such a scheme would also preserve the enclosed character of the Abbey surroundings and the possibility would still remain of one day restoring its full precinctual character by a traffic by-pass on the lines recommended some while ago by *The Architectural Review*.

THE HOUSING PROGRAMME

The question of 200,000 or 300,000 houses a year has been further ventilated, I see, by Alfred Bossom, M.P., in a three-page article in *Picture Post*. He is quite definite that 300,000 should be the minimum, to be increased to 400,000 over several years and then tapered off to 350,000, approximate pre-war figure. And the ways and means? Every local authority to

extend its allocation by 50 per cent. forthwith, one-third to be built by contract, and the rest by private enterprise. Materials to be in good supply, progress schedules to be kept and the universal adoption of mechanical plant from trenchers to electric planes.

*

Mr. Bossom seems to think that competition for contract houses should bring prices down—though surely four-fifths of all houses are contract jobs now—but he avoids any mention of the very vexed question of post-war output, which I suspect cannot be restored by mechanization alone, even if materials are freely available. It is good to see that the general Press thinks the housing programme worth a serious technical article, but the problem surely is not whether we *can* build the 300,000, but what other expenditure we are to forego. Not being in inner cabinet circles I wouldn't know the answer. Surely the first thing to do is to ask the building industry if it can do the job and what extra men and materials would be needed. If this question has been asked, the reply, so far as I know, hasn't been published.

2,150 ERRORS

Do you believe that a Man has Seven Skins and that Prince Leopold and the Duke of Clarence had only Five Skins Each, that some Large Snakes have Horns, or that Green Wallpaper is the Only Kind that is Likely to be Dangerous on account of it possibly containing Arsenic? If you harbour any of these fallacies in the backwaters of your mind, you must go straight out and buy a copy of the new edition of *Popular Fallacies: a Book of Common Errors, Explained and Corrected with copious References to Authorities* by A. S. E.

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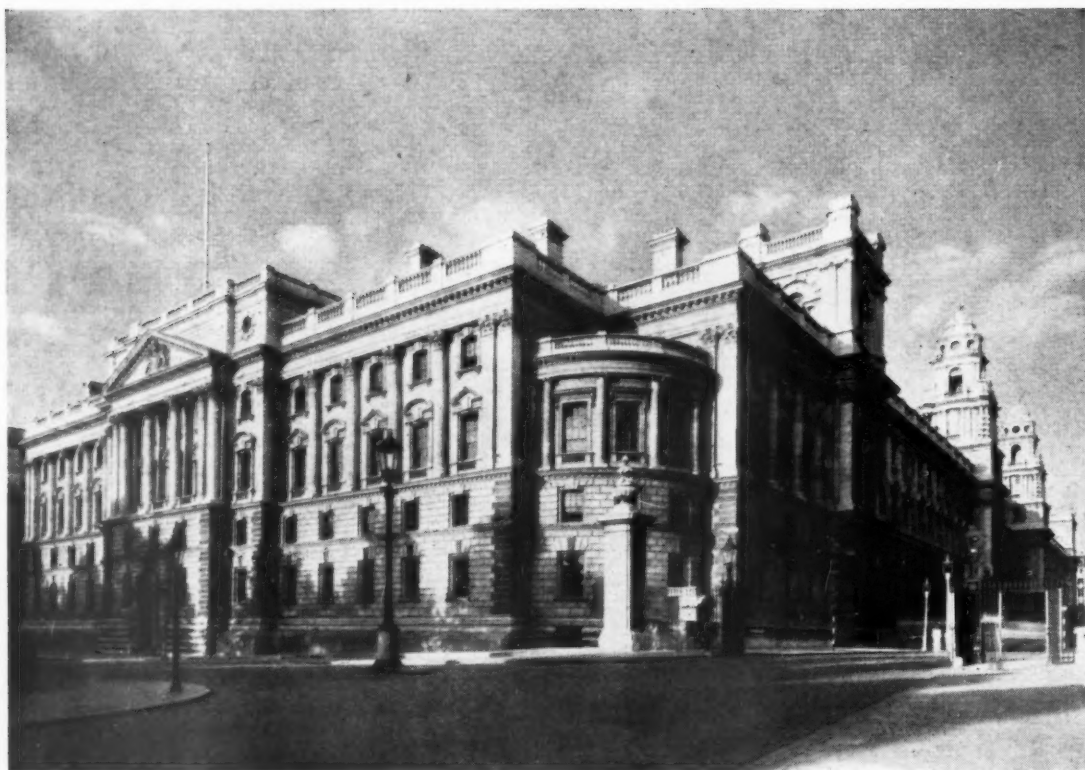
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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

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Twentieth Century London



Government Buildings, Storeys Gate, Westminster (1917)

Architect: J. M. Brydon, F.R.I.B.A. Supervisory Architect: Sir Henry Tanner: C.B., I.S.O., F.R.I.B.A., F.S.I.

Admiralty—Horse Guards Parade extensions	-	-	-	-	1906
and "The Citadel," The Mall	-	-	-	-	1942
Bank of England rebuilding	-	-	-	-	1939
British Museum—North Wing, Library and Parthenon Room	-	-	-	-	1937
Central Criminal Court, Old Bailey	-	-	-	-	1906
Charing Cross Hospital	-	-	-	-	1905
Chelsea Bridge	-	-	-	-	1937
Cumberland Hotel, Marble Arch	-	-	-	-	1934
Empire Pool & Sports Arena, Wembley	-	-	-	-	1935
General Post Office	-	-	-	-	1909
Hampton Court Bridge	-	-	-	-	1933
Wandsworth Bridge	-	-	-	-	1941
Westminster Hospital	-	-	-	-	1939

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Ackermann,* in which they and 2,147 more are dealt with in 830 pages (or 420,000 words).

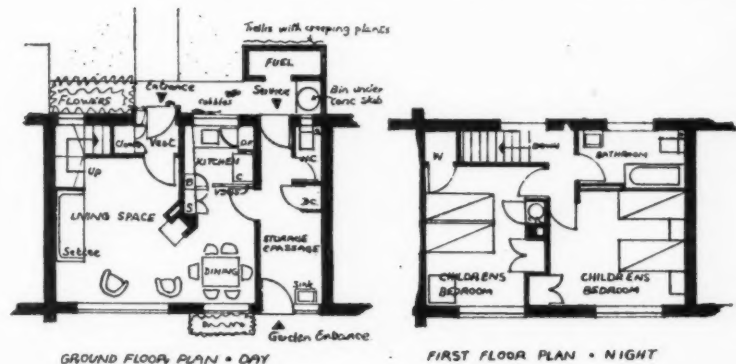
I have kept the capital initial letters of the cross-headings in Mr. Ackermann's book because they give a pleasantly seventeenth-century flavour to this worthy successor of Sir Thomas Browne's *Vulgar Errors*. Mr. Ackermann hasn't Sir Thomas's literary gift, but he has a wide-ranging curiosity and—most necessary this, if such a book isn't to be merely a display of pedantry—some really healthy prejudices. At least that is what a poor weak mortal like myself, who persists in clinging to the beliefs that Man Possesses a Free Will and that Hors-d'œuvres are Good Preliminaries to a Dinner, self-defensively calls them.

Mr. Ackermann, who is an engineer by profession, has no special section on architecture, but every architect will be the better informed for reading him on engineering and science. The only trouble is that the very improbability of some of the fallacies he exposes fixes them in the mind until long after the true explanation has faded from it—so that in time you might come to believe, for instance, that Kirchoff really did discover what are known as Kirchoff's laws. But that would be your fault, not Mr. Ackermann's.

THE EFFICIENT USE OF SPACE

During the summer Grenfell Baines, the architect, spoke at the Housing Centre's Brighton Conference on housing and pointed out that, taking into account the time factor, the average house is only three-eighths efficient in the use of space. He referred to a design for a house (shown above) for five or six people, with a total floor area of 774 square feet, which would be three-quarters efficient.

The reason I refer to this is because I am told by the Editors that Grenfell Baines has done considerably more work on the problem recently, and that his latest proposals for increased space efficiency will be published shortly in the JOURNAL. The plan above is interesting because it shows



W - Wardrobe
D.C. - Drying cupboard
L - Linen store
D.P. - Dry food store
V.S.S. - Vertically sliding glazed screen
B - Broom cupboard
S - Sideboard fitting

Plans by Grenfell Baines showing a house in which the use of space, taking the time factor into account, is three quarters efficient. (See Astragal's note, "The Efficient Use of Space.")

the effect of whole-house heating: the ability to use the bedrooms during the day as living rooms. This very effectively enlarges the size of the house during the autumn, winter and spring, but means that, as the house is of an overall smaller area, it becomes correspondingly smaller in the warm summer months (if there ever are any).

The settee shown in the living room becomes a bed at night, and the children's beds are supposed to be packed away during the day (more work for the housewife). One fault in the design is obvious: there is not enough cupboard space, or alternatively, space for furniture. Perhaps Grenfell Baines during his second thoughts on the problem has found a solution.

PAULINE STEPS

A correspondent sends me the photograph, shown here, of some unusual stairs at St. Paul's Cathedral. They are to be found rising from the stone gallery. If only our housing authorities were more willing to accept old-fashioned remedies, this design would make architects' planning problems much easier. The principle is, of course, extremely simple; you simply rise twice the height in the same going by arranging for the feet of the person climbing to rise side by side at each alternate step. A word of warning, however; those stairs should only be used by those in the prime of life, and even

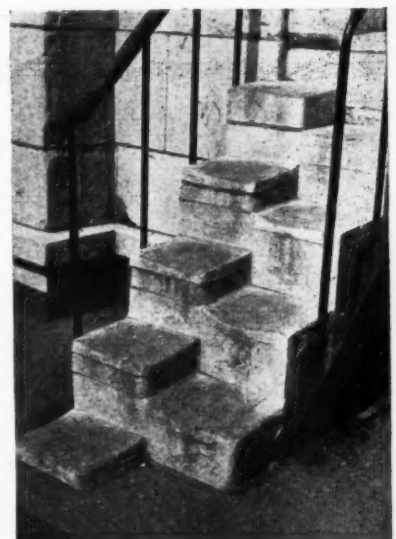
then they should not be descended two at a time.

PLANNING TEXT BOOK

There has long been a need for a comprehensive text-book on town-planning—indeed it is remarkable that the planning profession has established itself during recent years at so important a level without any printed guide to the information the planner is expected to have at his command. This gap has at last been filled by a text-book* published a few days ago.

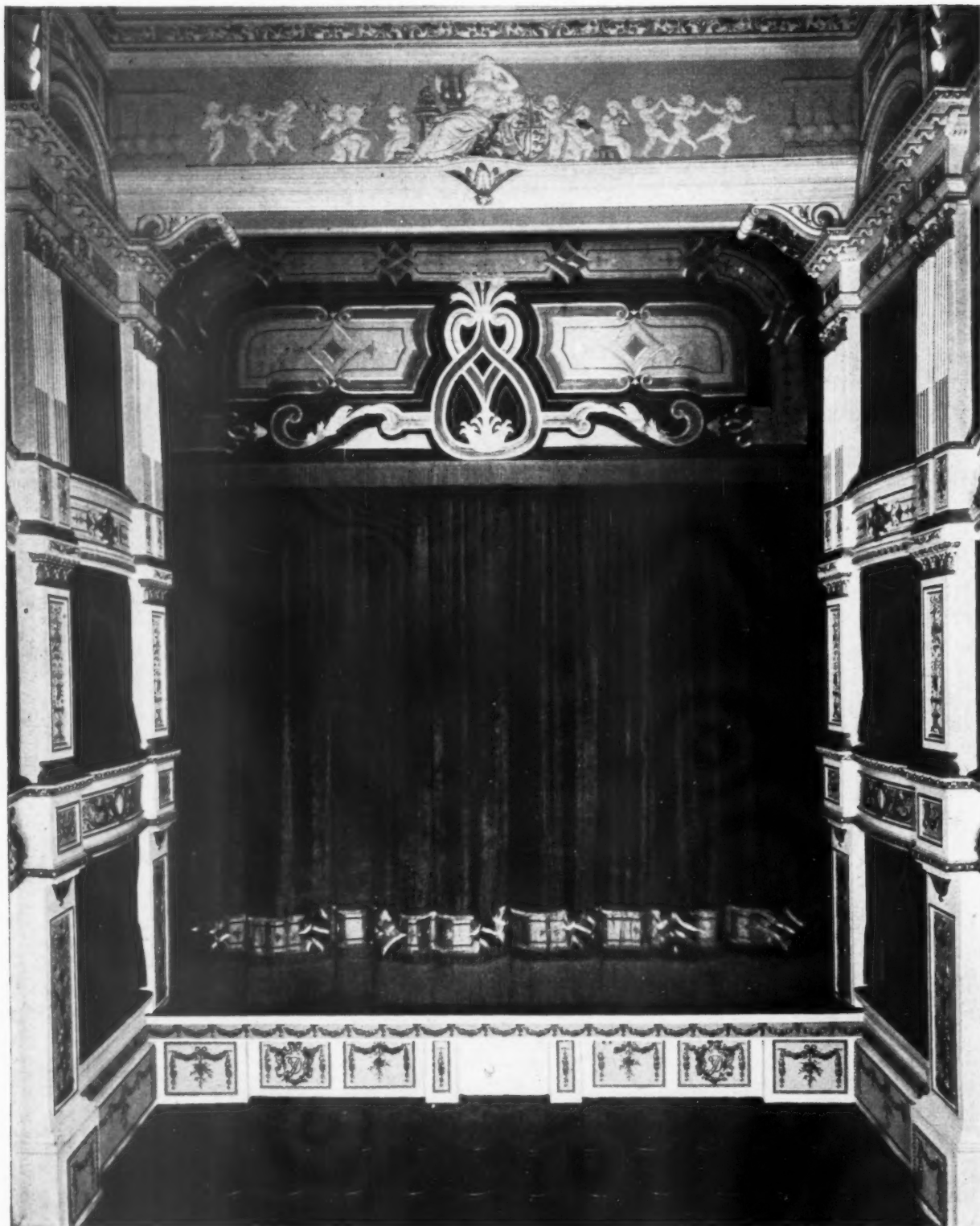
No-one more suitable could have

* Town and Country Planning Textbook. Edited by APRR. The Architectural Press. Price 42s.



Steps at St. Paul's Cathedral. (See note on left.)

* Simpkin Marshall, price 30s.



Edwardian Revival

Our frontispiece last week showed the newly designed interior of the Old Vic Theatre (illustrated and described in this issue) which successfully combines the atmosphere of the Victorian building with the innovation of a permanent forestage and a new lighting system. In contrast to this is

the newly decorated Duke of York's Theatre, above, which was opened yesterday. Cecil Beaton was responsible for the decor, which exaggerates the Edwardian trimmings of the theatre, and the architect was W. Wynton Todd.

been chosen to edit it than the APRR, who have been pioneers in town-planning education, and no one more suitable to write the introduction than Prof. W. G. Holford. The subject is one that covers so many specialized fields that it would have been far beyond the capacity of one author to deal with it authoritatively. The policy of getting each chapter written by a different expert was the only possible one, and the list of 28 experts on the cover is an impressive one: the names of Sir George Pepler, Prof. A. W. Ashby, Ruth Glass, Prof. E. G. R. Taylor, Jaqueline Tyrwhitt and Ernest Watkins are only some of those that will already be familiar to AJ readers.

*

The book has been designed to cover all the ground required for the TPI examinations. An immense amount of material has been condensed into its 600 pages and it should soon become a standard work not only among students but in planning offices as well.

COUNSELS OF PERFECTION

A report on the *Care of Fittings and Equipment in the Modern House*, prepared by a sub-committee of the Central Housing Advisory Committee, sets out to show local authorities what they should tell tenants about the care of their houses. Rust spots on the metal kitchen cabinets seem to be regarded as more or less inevitable [ASTRAGAL, from personal experience, would be inclined to agree] but can tenants reasonably be expected to go through the whole rigmarole of rubbing down, priming, two undercoats and a final coat of glossy? The spirit may be willing, but can anyone afford to have the storage shelves out of action for at least three days?

*

I do not quarrel with any of the Committee's recommendations, which one knows to be reasonable if a proper job is to be done, but most of the troubles with fittings and floors are directly due to the timber shortage and the consequent use of substitutes. Some of the newer solid fuel fittings seem to give trouble, too, but it's worth taking a little more trouble if they save money or fuel.

ASTRAGAL

The Editors

COLLABORATION IN BUILDING RESEARCH

THE building industry has a feature in common in all countries; it is based on traditional practices and on craftsmanship. This has many advantages but it also has the disadvantage that it makes the industry peculiarly unsuitable for the reception of new techniques, and particularly the kind of things which spring from scientific research. In spite of this, scientific research on various problems relating to building has gone on in many countries for a long time and has reached an advanced state of development in some. There is, however, a feeling that in many countries the application of research lags behind the state of development of research itself. It is, therefore, encouraging to note the very strong interest displayed by organizations of users at the recent Conference on International Collaboration in Building Research at Geneva, organized by the United Nations Economic Commission for Europe.

It was decided at this Conference to create a non-governmental, non-profit-making, self-supporting, decentralized, international organization based on national organizations for co-ordination and collaboration, and to this end a provisional Organizing Committee was set up to make the necessary studies which would lead to the creation of a working organization, and to advise the housing sub-committee on the rules and statutes which may be advisable for such an organization. The main directive given to the provisional Organizing Committee was that the researches where collaboration was desired were those directed to the reduction in cost and improved quality in housing and building. It was felt that immediate collaboration in technical research was both desirable and possible, but the desirability of working in wider fields such as economics, finance and legislation was not ruled out.

It was decided that an exchange of information on the methods and scope of researches in progress and immediately projected should be circulated among all the countries who join this organization, and since there is no reason why this phase of collaboration should not proceed at once, it is hoped that advantage will be taken of the findings of the Conference to get this work under way as soon as possible. It is certain to be of great benefit to all who participate.

THE CENTRAL LAND BOARD'S REPORT

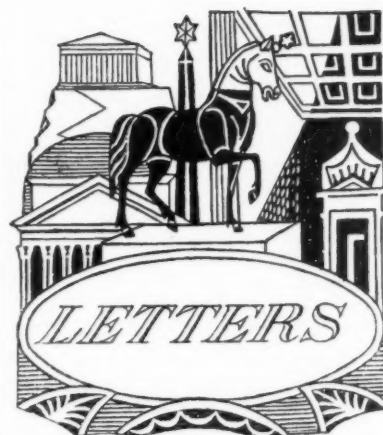
The second annual report of the Central Land Board, which includes the total of claims made for loss of existing development rights, is, of course, a much more revealing document than the first. The number of claims made were 935,000. Of the total of 108,835 applications disposed of by the Board, 22,830 were not dealt with (either because they were withdrawn or were considered premature); 59,673 were cases in which no development charge was payable, and 26,332 were required to pay or

secure a development charge. Charges assessed amounted to £3,826,406, of which £1,741,790 was set off against claims on the Compensation Fund, and £2,084,616 was collected in cash. The report also covers a number of other related subjects; the progress made in the estimation of claims on the Compensation Fund (which are still in a very early stage of examination), the basis agreed for the assessment of the development charge payable by local authorities, the position of the owner of the single plot of "near-ripe" land and of the development of mineral-winning undertakings.

But the Central Land Board is something more than the agency for the assessment and collection of a particular financial charge. It is a useful recording instrument in a field not otherwise covered. For example, it set off £1,117,506 in development charges against future claims by 6,454 individual owners of single plots of land who obtained permission (and presumably a licence) to build their dwelling houses on the Compensation Fund. A comparison of those two figures provides some useful data on the value of the development rights in a single building plot. But of even greater interest is the comment by the Board on what was one of the main purposes of the 1947 Act.

The 1947 Act set out to procure, by means of the development charge, that land would change hands at its existing use value. It was certainly based on the theory that its operation would not increase the cost of land to the actual developer. The Board is not satisfied that it is succeeding in that purpose. "The evidence available to the Board of prices paid for land for development suggests that sales at or near existing use value are more the exception than the rule." Most people concerned with land development have already reached the same conclusion. Today, what gives land its value is not permission to develop it, but a licence to begin the work of development. Land plus a building licence is worth more than land plus permission to develop. The man who can get a building licence will pay both the development charge and a price above the existing use value of the land on which he has a licence to build, simply because he needs a house to live in. The report suggests that he will, in the end, still have a house of which the total cost to him is below the price he would have had to pay for a similar existing house with vacant possession.

The failure of this part of the 1947 Act is a serious matter. It is not sufficient for a defender of the Act to say that it is being ignored or misused. The Act set up a new and arbitrary system designed to control a market which had previously been free. At the moment it seems as though the effect of the development charge on the building of a private dwelling house for private ownership is simply to increase the final cost to the owner; it does not reduce the price for the land obtained by the landowner to the equivalent of the existing use value. That state of affairs can only be described in one way; the development charge is becoming a tax on the individual ownership of a newly built house.



Sidney Loweth, F.R.I.B.A.

Alex

R. O. Foster, A.R.I.B.A.

J. L. Holmes

J. A. Brownrigg, A.R.I.B.A.

RIBA Questionnaire

SIR,—In your issue of November 16, *ASTRAGAL*, after congratulating Sir Percy and his Committee on their report, calls for immediate action to be taken on it.

Before suggesting any action, I would wish to first "clear the decks" by stating that there should be no controversy about allocating more work from the official to the private architect or *vice versa*.

At the moment most official architects are "snowed under" with work and in consequence a few are giving some out to men in private practice, but owing to the "cuts" in the official building programmes this will not go on for much longer.

It is therefore imperative that the line of action to be taken is to endeavour to give to architects the work that is now being done by people who are "not" architects.

Sir Harold Bellman, in a public speech many years ago said that about 85 per cent. of the new houses financed by building societies were not designed or erected by architects. To put this right, all building societies should insist on architects being employed.

Also, many of the smaller of the local authorities do not employ either official or private architects, but carry out housing schemes and other work by their engineer or surveyor and his staff.

This could be corrected by persuading architects to serve as members of local authorities, as in that capacity they:—(a) Would advocate the employment of either official or private architects (or both). (b) They would be of assistance to the official architect in explaining his schemes and estimates to the various committees and council. (c) As "public" men, they would often have the opportunity to put before the public the advantages of employing architects.

It has, on several occasions, been said that the practice of architecture leaves very little time for such public service. My answer to that is that on looking through a list of the

members of any local authority one sees lawyers, doctors, engineers and other professions, but hardly ever an architect. I trust that the RIBA will take this up with its members.

SIDNEY LOWETH.

Kent.

Control of Elevations

SIR,—Being at present employed by a planning authority as an elevational controller, among other duties, I feel that I am reasonably well qualified to state the controller's point of view. I might add that up to a few months ago I was in a private practice that was slowly but surely strangled by the present regulations.

I had hoped that by taking this post I should be furthering the cause of contemporary architecture, at least in an indirect manner, but I was to be sadly disillusioned.

To begin with I had never realized that such a high percentage of building was taking place without the services of an architect: in an average month in this area 75 per cent. was designed by non-architects, for fees lower than the regulation, and built from rough $\frac{1}{2}$ scale plans and elevations only. The majority of these having no aesthetic merit whatsoever, and ignoring such major factors of design as scale, character and aspect.

My first reaction, as regards this 75 per cent., was to reject as much of it that could be called "visually objectionable," and pass-



Detached house on open site in a village.



Farmhouse in a village of thatched cottages.

ing that which was purely utilitarian, and although not adding anything to the existing development, did not detract from it. This policy did not survive for long, as it was soon apparent that most of this "visually objectionable" development was to take place in neighbourhoods that had been commenced in the inter-war years, and consisted of the usual "mock-tudor-semi" or "bungalow" growth. I therefore had no case that could be called "bad manners." This results in these areas being rounded off in a like manner.

When an elevation is rejected it is required that the local planning authority suggests an alternative, but as the LPA has no control over the planning of buildings, it is only permissible to alter the elevations to the extent that the rigid plan will allow. The improvement that can be attained this way is practically nil.

The rejection of a building due to bad siting seemed to be a much sounder reason, particularly in rural areas, but this was doomed to failure also. Both the local councils and the county planning committee consist of local business men, who consider that any restriction on development is detrimental to the growth and prosperity of the area, so they do not support my views, and do not think that aesthetic reasons are sufficient for a refusal. The result is that although in a lot of cases there would have been sound reasons for a rejection, enough to win an appeal, there has been no action taken.

The local architects, who would have had my support, for what it was worth, for contemporary schemes, appear to have had any progressive intentions knocked out of them, either by my predecessor, who was not an architect, or by their very conservative clients, who seem to favour a Georgian revival in this area.

The result is that these regulations planned to improve the standard of architecture, having been administered by the wrong people, has ended up by only mutilating good architecture and allowing the continuation of the inter-war horrors unimpeded. It would, therefore, appear that the repeal of these complex regulations could not, in most cases, result in any deterioration in architectural design.

ALEX.

Newcastle-upon-Tyne.

ABS Appeal

SIR,—Many letters have been received from beneficiaries welcoming the proposal made by the Architects' Benevolent Society to mark its hundredth year by building and endowing a scheme of cottages for old people connected with the architectural profession who, for reasons of finance or health, are not able to fend for themselves.

£50,000 is required for the building and endowment of the scheme. It should be well within the compass of our profession, if every office, private and official, will take a hand, and every individual architect and assistant will make himself personally responsible for supporting the appeal to the best of his ability.

R. O. FOSTER.

London.

Documentation

SIR,—The International Council for Building Documentation was set up recently in Paris. I quote from the JOURNAL for November 9. These are fine brave words. In the face of a quarter of a century's disillusionment in international organizations we can still set up another; and expect something from it.

But how embarrassed the British delegates must have been on this occasion when they were asked to report on their country's contribution. We have one very fine abstracting service in England, but it is over a year out of date. My last number of *Building Science Abstracts* arrived a week or two ago, but is dated September, 1949.

The DSIR would probably plead that they haven't the staff, which means they haven't the money. The money seems to be available for a Working Party and a Productivity Team whose reports aren't half as useful to the architect and engineer as are these Abstracts.

Can we please not have a penny or two to bring *Building Science Abstracts* rapidly up to date? If the simple plea fails would not the same RIBA, ICE and NFBTE that ASTRAGAL invokes exert some influence?

J. L. HOLMES.

P.S. Can the long promised Vol. II of "Principles of Modern Building" be given us too?

[It should also be borne in mind that if

the International Council for Building's Documentation is supported by this country, and thereby helped to become an efficient organization, the Council will provide a yet more comprehensive service than the present *Building Science Abstracts* produced by DSIR, thereby rendering the latter work redundant, and relieving them of an onerous responsibility.—Ed.]

Architectural Competitions

SIR,—I should like to endorse Astagal's plea for a revision in the method of operating certain architectural competitions. In a recent competition about 90 per cent. of runners in a fairly large field were eliminated in the early stages of assessing, most of them obviously on the grounds of the extravagance of their designs, few of which can have cost less than £200 to produce. Not many would have survived a preliminary round.

Another channel of wastage is the enormous amount of detailed work which a competitor feels must be put into a design in the way of structural calculations, design of services, insulation and acoustics, heating and ventilating etc. in order that his scheme shall have as few flaws and shortcomings as is humanly possible. Then, as often as not, he finds that the winner succeeds on certain very worthy grounds but is advised by the assessor to amend his design in a number of detailed particulars. The unsuccessful aspirant, after a vast output of skill and energy, realizes that he lost before ever he put a first faint pencil line on a final sheet and weeps at his wasted effort.

All this is unnecessary. It is time for a fresh approach to the problem and I would put forward the following tentative suggestions:

(1) that competition conditions be framed with great care, and that requirements be rigidly divided into those whose non-observance would exclude the design and those given for guidance only. These conditions should be adhered to at all cost.

(2) The conditions should be framed so that no detailed work not absolutely essential to the presentation of a sufficiently developed scheme need be included.

(3) That competitors be allowed to submit a preliminary scheme in any form they like, or in a form giving very wide scope, and that from these sketches the assessor selects all those which have any chance of being a winner and invites the seeded contestants to submit a final design.

(4) That the winner and runners up should be selected from them and prizes awarded, the prizes not to be part of any fees.

(5) That the winner be required if necessary to amend or elaborate his scheme on the assessor's advice and only then be given the commission, if the project is to be realized, on the basis of this final design.

Number four presents a difficulty—the added expense to the sponsors of £1,000 or so. To cover this and encourage the running of competitions could not one of the recognized architectural bodies arrange for a highly expert panel to advise on and help run competitions and possibly even provide funds for the first premiums. The cash might be raised in several ways, one of which would be for the usual deposit, instead of being returnable, to go towards the premium fund. The much larger number of entries resulting from the simplification of the first submitted scheme should produce a useful sum. For the aspiring architects the odds would be very much better than in football pools and they would have the satisfaction of knowing that they were helping themselves by encouraging the wider and better use of the competition system.

Guildford.

JOHN A. BROWNRIGG.

The EDITORS reserve the right to shorten letters from readers. Whenever possible, however, they are published in full.



CCA

Results of Bridge Competition

In the opinion of the assessors of the Motorways Bridges Competition, organized by the CCA, designs submitted by Atkins & Partners and Clive Pascall, A.R.I.B.A.; and by Lindsey Drake, A.R.I.B.A., Denys Lasdun, F.R.I.B.A., A. J. Harris, B.S.C., A.M.I.C.E., and W. M. Johns, M.C., B.S.C., A.M.I.C.E., were so equal in merit that they have decided to place them together and divide the first and second prizes between them. Each of these two groups of competitors will therefore receive the sum of £400. The third prize of £200 is awarded to Louis Erdi, L.R.I.B.A. and A. J. B. Birkmyer, A.M.I.C.E.

The competition was open to engineers and architects, normally resident in Great Britain and Northern Ireland. Competitors were required to submit one design for each of three types of bridge, all to be suitable for carrying a road or footpath over a motorway.

The assessors were Sir Percy Thomas, J. Cuerel, A. Moller, E. John Powell, and J. Reed.

RIBA

American Working Drawings on View

American working drawings which were brought to this country by the architect members of the recent Anglo-American Productivity Building Team have been shown at the RIBA, 66, Portland Place, W.1, and will be on view again from December 13 to 23.

TCPA

"Sense of Proportion in Planning"

It was necessary to keep a sense of proportion in planning, said George S. Lindgren, Parliamentary Secretary to the Minister of Town and Country Planning, when he opened the TCPA Conference at the County Hall, London, recently.

Mr. Lindgren was referring to criticism that had been made of the recent General Development Order which had given freedom for the minor extension of houses without planning permission, and for the unrestricted erection of agricultural buildings. The object of planning, he said, was much bigger than this; to provide that land in this small country was rightly used; that

the overgrowth of towns was prevented; that work and homes were properly related; that the great agricultural industry was enabled to flourish; and that the road system was adequate to the demands of the age of speed. We were apt to lose sight of these, the important—and the difficult—things, if we clogged the machine with too much small stuff. It was a pity if a small thing went wrong, but it was not fatal. If necessary it could be put right at very small expense.

There was an era of rapid change; full employment; undreamed-of emphasis on production and export; greater use of land and mechanical farming; increased mineral development; the aeroplane and motor-car; comfort in the home, the electric kitchen, radio and television. All of these things meant a big change; a shake-up of established concepts. They meant more airfields, more factories, more power stations, more reservoirs, more mineral production, etc. Here was the rub: while everybody wanted more electric power to ensure that there were no power cuts in his home or his factory, he wanted the power station as far away from him, as it could possibly be; while everybody wanted plenty of water, he wanted the lakes and the mountains undisturbed; while everyone wanted full employment and efficient production, he hated some of the prerequisites—the tearing up of land for minerals, the erection of vast new factories, even the siting of new towns. We shut our eyes and said there must be somewhere else where it would hurt less. But this was a terribly small country. If we were going to have progress we must have the things which made it possible. We must all be prepared to find a place in our lives for things which at first sight were unfamiliar. It was highly desirable that all possible care should be taken in siting any large pieces of development, particularly of an industrial or military character, but the approach to the problem must be positive and not negative.

Planning could not be static, said Mr. Lindgren. There could be no question of a code of rules and regulations which was fixed and to which everything must conform, with all unpleasantness barred. Planning could not rest; it had got to keep abreast of events and, within limits, accommodate itself to events.

LIVERPOOL

Reilly Medals Presented

At a ceremony recently held in the Lecture Theatre of the Liverpool School of Archi-

teature and attended by the vice-chancellor, Dr. Mountford, and other officers of the University of Liverpool, twenty-one Reilly Medals in bronze and a cheque for £1,369 were formally accepted by the vice-chancellor, on behalf of the University, in the presence of an audience of two hundred students of the third and fifth years in the school. Four members of the Reilly Medal and Prize Fund Committee were present:—N. J. Aslan (chairman); W. Crabtree, J. H. Forshaw, and A. G. Sheppard Fidler (hon. secretary and treasurer).

Tributes to the memory of Sir Charles Reilly were paid by the vice-chancellor, Mr. Aslan, Mr. Sheppard Fidler and Professor Budden; and it was stated that the first award of the Medal and Prize (value £35)—to be offered annually for the best thesis design as submitted in project drawings—would be made at the end of the present session—that is in July, 1951.

RSA

Smoke Pollution Unavoidable

At the present time smoke pollution could not be prevented, said Dr. Albert Parker, Director of Fuel Research, DSIR, when he spoke on *Cities Without Smoke* at the RSA, London, on Wednesday of last week.

Although there had been some improvement in certain areas, he said, other places had suffered more owing to the growth of industrialization and increase in population.

The total solid matter deposited in our cities and towns varied between 50 and 2,000 tons per square mile each year, with an average for an industrial area of about 400 tons. Country districts might receive as little as 10 tons per square mile. It was difficult to assess the harmful effects of this pollution on man and material, but the obvious ones were damage to buildings, increased laundry costs; harm to agriculture and detriment to health. It was estimated that the sum total of the damage caused was £50,000,000 a year, or an average of more than 5s. for each ton of coal used.

Although the problem of eliminating smoke, soot and grit was difficult, a reduction in atmospheric pollution was possible by the proper cleaning of coal and by ensuring that coal and its products were used with the maximum efficiency. In the latter connection modern solid fuel burning appliances had recently been greatly improved, and the National Coal Board was making efforts to raise the standard of its cleaning plants.



R. Fitzmaurice, the Journal's technical Editor is seen here (centre) acting as chairman at the recent Conference on International Collaboration in Building Research in Geneva. (See leading article on page 443.)

DSIR

Fuel Exhibition

The DSIR is demonstrating the scientific testing of the efficiency of domestic heating appliances, the investigation of atmospheric pollution caused by wasteful use of solid fuels and equipment developed for the elimination of smoke from certain types of industrial boilers, at the Fuel Efficiency Exhibition at Manchester which will remain open until December 2.

MASSACHUSETTS

New Dean for Architectural School

Pietro Belluschi of Portland, Oregon, has been appointed dean of the School of Architecture and Planning at the Massachusetts Institute of Technology. He succeeds William Wurster, who held the position from 1944 until May, 1950, when he returned to California to assume the post of dean of the School of Architecture of the University of California.

SHEFFIELD

Discussions in Building Foremanship

The Sheffield College of Commerce and Technology has arranged a series of discussion group meetings on the subject of building foremanship. These will be held on practically every Wednesday evening until March 7 at the Department of Building, Salmon Pastures, Warren Street, Sheffield. The meetings have been arranged in association with the MOW, the Sheffield Building Trades Employers' Association and the Sheffield and District Clerk of Works and Builders' Foremen Association.

MOW

Control of Building Operations Amendment of Licence Forms

An MOH circular, issued to local authorities, states that a case has recently been brought to the notice of the MOW in which a building licence for the erection of a new house was sold by the licensee to another person, for whom the house was then erected. As it is the intention that licences should be issued for new houses to those whose need is greatest, the sale or transfer of licences is clearly undesirable. It may be possible to prosecute either or both parties to the transaction in suitable cases; but it is usually a difficult matter and local authorities should therefore normally refer such instances as come to the notice to the Regional Office of the Ministry of Works for consideration.

In order that it may be made even more clear to licensees that the licence is personal to them and may not be transferred, it has been decided to amend the licence form CL. 1138 in certain respects.

KENT

Control of Development

In a period of slightly over two years, 30,127 applications for permission to develop land and property have been dealt with by the Kent County Council's Planning Depart-

NORWICH ASSEMBLY HOUSE RE-OPENED



Above is shown one of the restored Georgian rooms of the Assembly House, Norwich, which was opened by the Lord Lieutenant for Norfolk, Lt.-Col. Sir Edmund Bacon, last Thursday. The architect for the reconstruction work on this building, which had decayed as a result of neglect, was S. Rowland Pierce. H. J. Sexton, who created a trust, after the war, to administer the Assembly House as an arts centre, provided the funds for alterations and restorations. Below is the Assembly House, showing the central block designed by Thomas Ivory in 1754, and the wings which are structurally parts of the house that stood on the site in the sixteenth century.



ment. Approximately 84 per cent. of these applications have been decided by County District Councils using powers delegated to them by the County Council, which is the local planning authority. The remaining 16 per cent. were decided by sub-committees of the Planning Committee. There has recently been a substantial decrease in the number of applications requiring determination by county district councils under delegated powers because many kinds of minor development no longer require planning permission.

DSIR

Annual Report

The DSIR Annual Report for 1948-49 has been published. It contains information on researches in progress and completed at all the DSIR Stations and also from all the Research Associations. This is the first time since the war that details of co-operative industrial research have been published collectively.

Last year the DSIR Advisory Council drew attention to a lack of balance in the programmes of research, stating that not enough time and effort was being devoted to basic research. This year the Council repeats its warning and, while admitting the difficulties that are upsetting the balance, calls for more basic research. A number of examples are given of how basic research in past years is now bringing the answers to practical problems, notably in building, roads and timber.

Another suggestion is that Research Associations might provide a more complete scientific service for their industries with research on everything bearing on production and even, perhaps, works organization. The Report can be obtained from HMSO or from any bookseller at 5s. 6d.

ONTARIO

Building Exhibition

The Ontario Association of Architects will again hold an Exhibition of New Building Materials and Techniques at the Royal York Hotel, Toronto, on Friday and Saturday, January 19 and 20, 1951. This exhibition is being held in conjunction with the 1951 Convention and Annual Meeting of the Association.

DIARY

Arts and Crafts Exhibition. V & A Museum, Kensington. Daily, 10 a.m. to 6 p.m. UNTIL Nov. 30

Prestressed Concrete. E. H. MacMillen. At the Brocklehurst Memorial Hall, Macclesfield. (Sponsor, MOW.) 7.15 p.m.

Nov. 30

Cold Formed Sections in Structural Practice with a Proposed Design Specification. W. Shearer Smith. At 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) 6 p.m.

Nov. 30

Planning for Health. At 28, King Street, W.C.2. (Sponsor, Students' Planning Group.) 6.15 p.m.

Nov. 30

London Housing. Peter Shephard talks about the Westminster City Council's housing scheme at Pimlico in relation to other large housing projects in London. BBC Third Programme. 8.40 p.m. to 9 p.m.

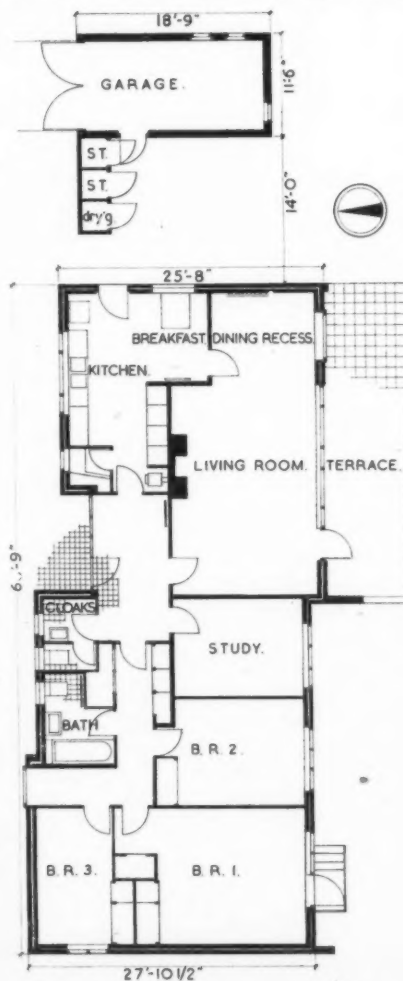
DEC. 8

HOUSES AT PENYFAI AND



Typical houses from two groups built for the Bridgend Paper Mills Ltd. are illustrated on this page and opposite. The first group consisting of six houses are at Penyfai (opposite), the second group of three houses at Llangynwyd; both are designed by Katz and Vaughan, the Llangynwyd houses carried out in association with Henry

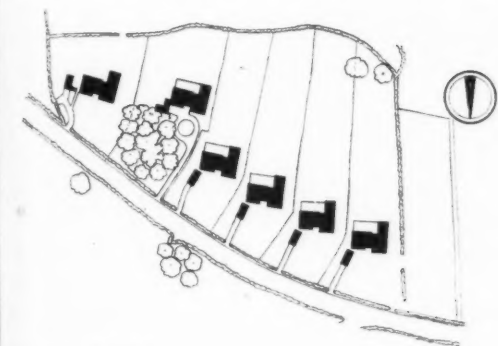
Budgen and Co. of Cardiff. All the houses are for the managerial staff of the client's new mill. The Penyfai houses are on an irregular site off a country road, a copse of fully grown trees has been retained and one house is placed behind it. The four houses to the west have been staggered to avoid side windows overlooking each other and to give an informal effect. The site falls away from the road and the low roofs of these one-storey houses suit the landscape and do not destroy the fine view of the hills and valley to the south. Houses 1 and 2 differ in plan but are similar in construction and finishes. There are 11-in. cavity walls with cream spar roughcast finish and exposed brick plinths. Parts of the south elevations, as seen below opposite, are built in random stone from a nearby quarry and the wall under the living room window is faced with non-vitreous tiles. Roofs, which have swept eaves, are of purlin and rafter construction



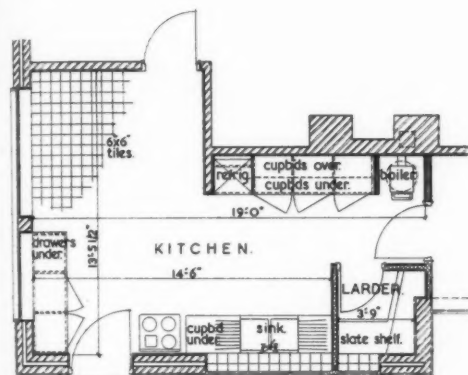
Plan House 2

[Scale: 1/4" = 1'-0"]

LLANGYNWYD, NEAR BRIDGEND, GLAMORGAN



Site Plan, Penyfai

Kitchen Plan [Scale: $\frac{1}{4}$ " = 1'0"]Plan House 1 [Scale: $\frac{1}{16}$ " = 1'0"]

covered with cedar shingles. Partitions are of $4\frac{1}{2}$ -in. brick or 3-in. breeze blocks. The garage roofs are 4-in. in situ concrete carried over to form covered entrances to kitchens. There are wood framed windows and casement doors with some windows in projecting concrete surrounds. The return walls of the recessed entrances are cement rendered and painted different colours; the soffits of overhanging eaves are also cement rendered on expanded metal and distempered. All interior walls are plastered; the bathroom is partly tiled. Floors are of screeded concrete covered with asphalt tiles. There are built-in cup-

boards and wardrobes. In the kitchen there is an electric cooker and boiler serving four radiators. Living rooms have coal fires and all other heating is electric.

The three houses at Llangynwyd, one of which is illustrated opposite are on a site approaching the new mill, with a fine wooded view to the south. In these houses the living rooms and kitchens are similar, but the bedrooms are planned in line with a return corridor as access to a possible extension.

The general contractors were Joseph, Evans and Hellyer Ltd. For list of sub-contractors see page 468.



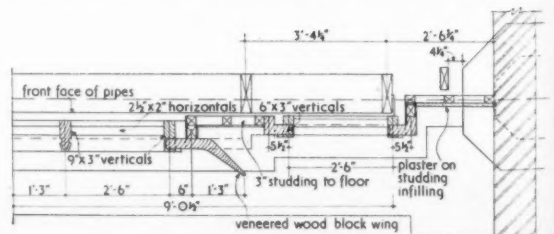
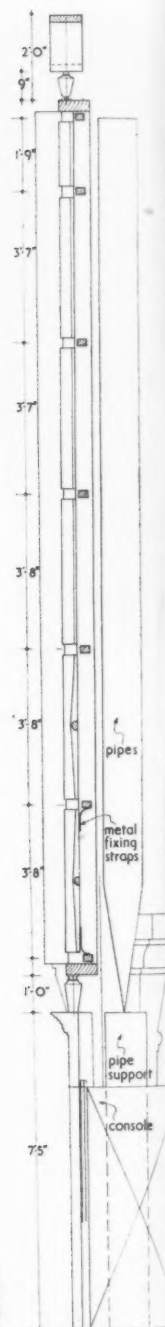
INDIAN ARMY WAR MEMORIAL IN ROYAL MILITARY



A new memorial to all ranks of the Indian Army has been built in the chapel of the Royal Military Academy, Sandhurst, to the designs of Hugh and Margaret Casson. The memorial is in a side chapel, as indicated on the key plan opposite, and consists of the organ, decorative organ screen (seen above), and treatment of the chapel to provide a background for 67 carved regimental badges and 12 corps badges with inscriptions. The organ has been placed in the gallery behind an open casing designed to prevent the pipes from being too dominant. The design of the screen was influenced by the very restricted depth

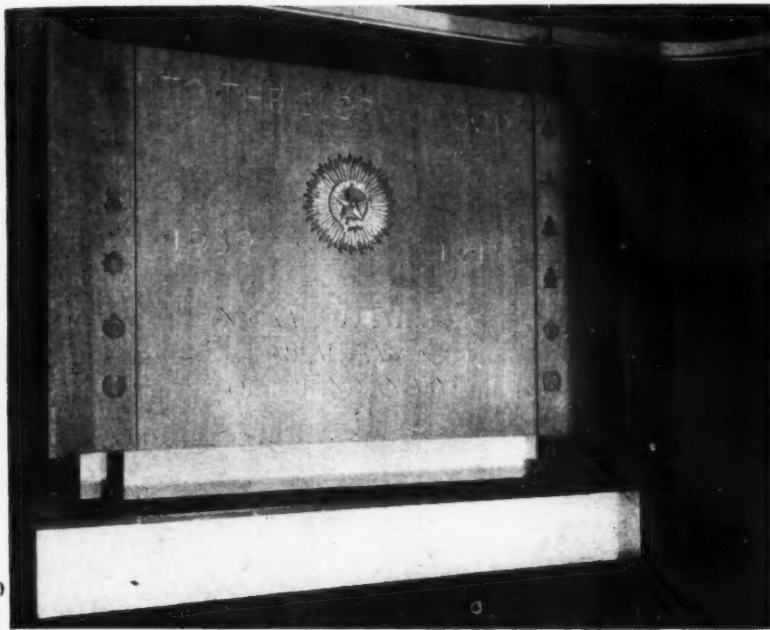
available and has been kept light in feeling. It stands on a solid oak panelled dado. The old gallery balusters have been removed and cut down to form the present ribbed facing and

Section through organ case

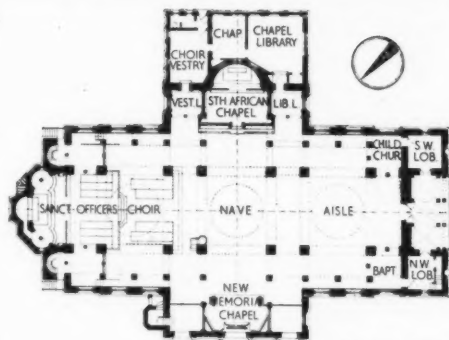


Part plan of organ case [Scale: 1/4" = 1'-0"]

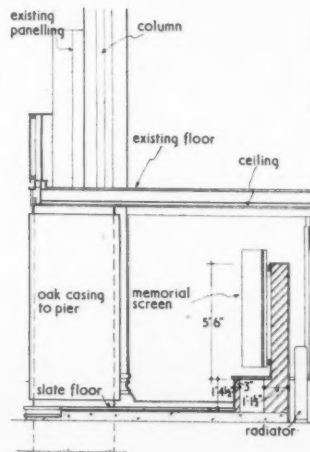
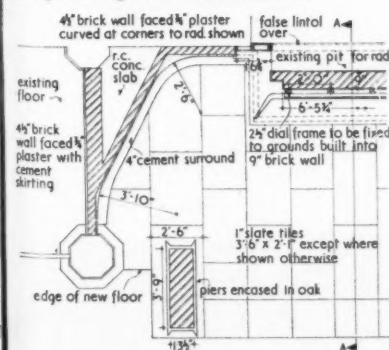
ACADEMY CHAPEL, SANDHURST



the original supporting gallery wall has been removed and two entrance lobbies formed each side of the newly raised chapel floor. The new opening is spanned by a steel joist carried on two brick piers which are oak faced. The chapel side walls are hung with red and gold wallpaper behind the main memorial screen, which is treated with great simplicity. The gilded Star of India, seen in the photograph above, forms the centrepiece and all other carving is kept subservient to this symbol of British service in India. The chapel floor is of 1-in. green Westmorland slate on a concrete platform and the existing wood floor of the gallery has been trimmed off and supported by RSJs between piers. The general contractors were Russell Bros. (Paddington), Ltd. Sub-contractors on page 468.

Key plan [Scale: $\frac{1}{4}$ " = 1'0"]Section A-A
[Scale: $\frac{1}{8}$ " = 1'0"]

Part plan of ground floor memorial



Modern Legislation Affecting the Development of Land and Buildings. R. D. Stewart-Brown. Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, I.R.A.) 6.30 p.m. DEC. 1

Lighting in the Home. Miss M. D. Wardlaw. Grand Hotel, Bristol. (Sponsor, I.E.S.) 7 p.m. DEC. 1

Specialized and General Lighting in Hospitals. M. W. Peirce and D. J. Reed. Merseyside and North Wales Electricity Board's Service Centre, Whitechapel, Liverpool 1. (Sponsor, I.E.S.) 6 p.m. DEC. 4

Demonstrations of Stud Welding for Building Construction. At the Engineering Centre, 351, Sauchiehall Street, Glasgow. 10 a.m. to 4.30 p.m. DEC. 5 to 7

The Modern House in 1850 and 1950—a Parallel and a Contrast. Ronald Bradbury. The Royal Society of Tropical Medicine and Hygiene, 26, Portland Place, W.1. (Sponsor, Chadwick Public Lectures.) 2.30 p.m. DEC. 5

Modern Building Exhibition. At Hammersmith School of Building, Lime Grove, Shepherd's Bush, London. To be opened by R. R. Stokes, Minister of Works, at 11 a.m. on December 5. On view to public that day from 1.30 p.m. to 8.30 p.m. Following days: 10.30 a.m. to 8.30 p.m., including Saturday, December 9. DEC. 5 to 13

Powered Hand Tools. A. F. Coare. At Hammersmith School of Building and Arts and Crafts, Lime Grove, Shepherd's Bush, W.12. 7 p.m. DEC. 6

Some Mechanical Aids Developed for Building. K. G. H. Fryer. At Technical College, Queen Street South, Huddersfield. (Sponsor, M.O.W.) 7.15 p.m. DEC. 6

Post-graduate Symposium on Hospital Planning. Speakers: S. E. T. Cusdin, Michael Powers, Rees Phillips, Geoffrey Fairweather, Lionel G. Pearson, John Madge, A. S. Gray, S. F. Amis, L. A. Wills, H. H. Clark, Prof. H. W. R. Vines. At 34, Bedford Square, W.1. (Sponsor, A.A.) 9.30 a.m. to 6 p.m. DEC. 6

The Planning of Rural Land—its Present Position. Dr. Dudley Stamp. (Sponsor, T.C.P.A.) At 13, Suffolk Street, S.W.1. 1.15 p.m. DEC. 6

Foundation Problems. L. R. Creasy. At the Lecture Hall, City Technical College, Byrom Street, Liverpool. (Sponsor, M.O.W.) 7.15 p.m. DEC. 6

Some Noise Problems and their Solution. W. Allen. At Large Hall, Digbeth Institute, Birmingham. (Sponsor, M.O.W.) 7 p.m. DEC. 6

Good Practice in Plumbing. G. Lloyd Ackers. At Gas Show Rooms, Lower Parliament Street, Nottingham. (Sponsor, M.O.W.) 7.15 p.m. DEC. 6

Essentials of Good Concreting. E. E. H. Bate. At the Municipal Hall, Taunton. (Sponsor, M.O.W.) 7.30 p.m. DEC. 6

Architectural Control and Criticism. J. M. Richards. At 13, Suffolk Street, S.W.1. (Sponsor, Students' Planning Group.) 6.15 p.m. DEC. 7

The Behaviour of Clay in Foundations. Professor W. Fisher Cassie. At Creighton School, Strand Road, Carlisle. (Sponsor, M.O.W.) 7 p.m. DEC. 7

Composition and Applications of Paint. L. A. Walker. At Walker Hall Technical College, Abbey Foregate, Shrewsbury. (Sponsor, M.O.W.) 7 p.m. DEC. 7

Home of One's Own. J. V. Walker. *Drains and Sewers—the Legal Aspect.* L. Mair. Newe Hall, Pilgrim Street, Newcastle-on-Tyne. (Sponsor, R.S.I.) 10 a.m. DEC. 8

Economy in Traditional House Building. N. S. Pippard. At Hammersmith School of Building and Arts and Crafts, Lime Grove, Shepherd's Bush, W.12. (Sponsor, M.O.W.) 7 p.m. DEC. 12

COUNTRY HOUSES THREATENED WITH DEMOLITION



The buildings shown here are included in the list of those destroyed during the past year or immediately threatened, published in the ninth annual report of the National Buildings Record. Above is East Cowes Castle (built by John Nash for his own use) which was considerably damaged during the war when it was occupied by the military authorities. A very large sum would have to be spent on it to make it habitable. Gorfield Hall, on the right, is one of the best large houses left in Essex. The Essex County Council approved the making of a Building Preservation Order but as it failed to find some use for the mansion the MOTCP was asked to revoke the Order. The Ministry is still considering the findings of an inquiry held recently. Bottom, right, is Marks Hall, Essex. The local council permitted Nissen huts surrounding this building to be used for housing after the war. Consequently the owner did not return to live in it and it reached a condition which made it impossible for repairs to be carried out without large expenditure.



NEW TOWNS: No. 8

Progress report on Welwyn Garden City by D. Rigby Childs.

Welwyn Garden City, Hertfordshire, was established in 1919-20 as the first satellite town. Between 1920 and 1949 its development was controlled by Welwyn Garden City, Ltd. with, as chairman, Sir Theodore G. Chambers, and, as company's architect, Louis de Soissons. The original plan, inspired by Ebenezer Howard, was to build Welwyn as the second Garden City to provide for the needs of a population of 40,000 to 50,000. The City began with an existing population of 430; by 1938, 3,930 residential buildings having been completed the City supported a population of 14,150, which increased to 18,000 by 1947.

Sir Patrick Abercrombie, in the Greater London Plan, 1944, recommended that, as a contribution to the decentralization of London, Welwyn should continue its development up to a population of 40,000. The Minister of Town and Country Planning, under the powers bestowed upon him by the New Towns Act, 1946, decided that the completion of the Garden City should be taken out of the control of the Garden City, Ltd., and be entrusted to a New Town Development Corporation, with the instruction to allow for an ultimate population of 36,500.

The topography is undulating and wooded. The height above sea level varies between 210-420 feet. The subsoil is very mixed, changing to and from sand, clay and chalk.

DEVELOPMENT CORPORATION

The Development Corporation includes the following members and staff: chairman, R. A. Gosling; vice-chairman, R. L. Reiss; general manager, J. E. McComb; engineer, J. Skinner; planning consultant, Louis de Soissons.

The Corporation have not set up an architect's department. Outside architects are engaged as and when they are needed, and approval of layout and elevations is given by the planning consultant.

The outside architects engaged by the Corporation are: A. Chitty (housing); Louis de Soissons (housing, flats, shops and offices, factories, office extension); C. W. Fox (factory extension); C. H. James (housing); M. Patrick (housing).

PROGRESS

1948: June.—Designation Order made for 4,230 acres.

1948 October.—Preparation of the master plan began.

1949: January.—The first building construction contract let (for erection of offices).

1949: August.—The first housing contract let.

1949: October.—Draft master plan published under the title of "Welwyn Garden City New Town". (Copies obtainable from the Development Corporation's offices, 3s. Draft master plan submitted to the Minister of Town and Country Planning.

1950: August.—Minister gives his comments on the draft master plan. According to the draft plan the total area of land to be developed or used for town purposes as opposed to farming or gravel workings is 3,759 acres. The Minister requires a reduction to be made in the figure as he desires to reserve the maximum possible area for gravel workings, but the revised figure is not yet agreed.

1950: September.—Total expenditure on constructional works completed or in progress by the end of September was £88,280.

Civil Engineering £4,160 with contracts let to the value of £25,280.

Building Construction £84,120 with contracts let to the value of £441,074.

1950: October.—At the beginning of this month 2,865 acres of land had been acquired.

The number of buildings completed were: 16 flats; 1 junior and mixed infants' school; 1 self-service store (equivalent to three 20 foot frontage shops); offices for headquarters of Youth Hostels Association and part of blocks of flats.

The number of buildings under construction were: 130 houses of all types and 54 more to start November this year; 83 flats of one or two bedroom types; 1 factory and several minor extensions to existing factories; 1 junior and mixed infants' school; extension to Midland Bank Chambers for offices.

Total labour force at work was 224 men with 24 men on civil engineering (to meet short term needs for roads and sewers, etc., already substantially completed) and 200 men on building construction.

PROGRAMME

The aim for intake of new population by mid-summer of the next three years is as follows:

1951.—Total number 600 persons.

1952.—Further 1,400 to make total number of 2,000 persons.

1953.—Further 1,400 to make total number of 3,400 persons.

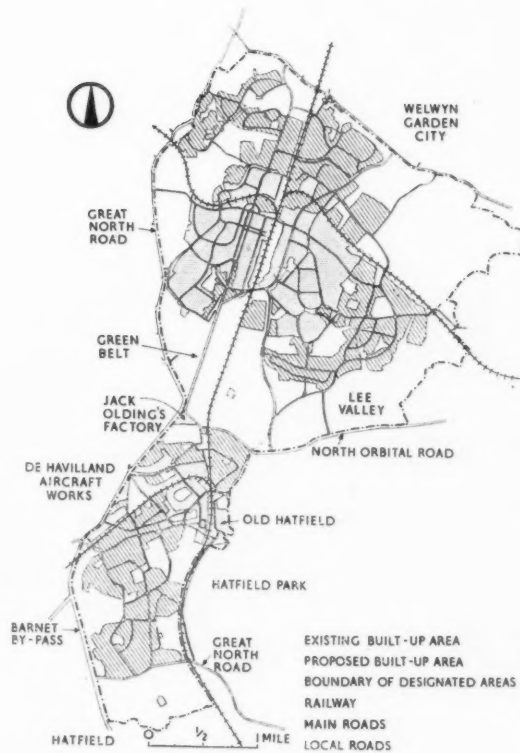
COMMENT

Although the town's population consists of only 18,500 there are registered at the local Employment Exchange no less than 10,000 people, of whom 8,300 are engaged

in manufacturing industry. The Corporation recognize that by no means all the people living in the outlying villages and earning their livelihood in Welwyn Garden City want to come and live in the Garden City. An additional factor is that some provision must be made for these inhabitants of Hatfield new town who do not wish to make aeroplanes. This tendency for Welwyn Garden City to be the industrial centre of the local region is likely to continue and may even increase as the town grows.

The Corporation's new building programme includes a scheme designed to reduce a social barrier which has arisen from the effects of the severance, created by the passage through the middle of the town of the railway from King's Cross to the North. One of the first things the Corporation has done is to build 98 flats, with a restaurant, which will serve not only the occupants of the flats but the public in general, in the south-east. The flats are intended for the monthly-rented person. These flats, which at the moment are somewhat off-centre from the rest of the town, constitute a bold experiment. But the Corporation believe that until by some positive action they have attracted to this area a section of the middle-class population, it is not reasonable to suppose that the middle-class individual, armed with a building licence, would wish to go and build in an area not at present recognized as having the same environment as that on the west side.

One of the most interesting aspects of Welwyn Garden City is that as a new town it has arrived at the stage where most others will be in, say seven to ten years. The town is now ripe for its town centre and big buildings and until it gets some of these, particularly in the centre, it will lack the air of stability that is possessed by a fully developed town. At present there is conspicuous shortage of such amenities as



Plan of Welwyn and Hatfield

hotels, pubs, cinemas, libraries, swimming baths, etc. (This shortage is accentuated by the absence of another nearby town in which Welwyn people can easily go to for recreation, sport and study.) The detailed planning of the town centre, its shops, car park spaces, administrative buildings, etc., is now in hand. The first draft and many study sheets have had preliminary consideration of the Corporation and should become available for public comment in the course of the next few months.

The Development Corporation have to complete the building of a new town which is already half developed. Their view is that there should not be an obvious line between pre-Development Corporation and post-Development Corporation development. The existing net residential density is 32 persons per acre but if overcrowding was eliminated and the existing buildings retained it would drop to 29 or 30 persons per acre. The intention is to complete the Garden City with the same character of layout and building as exists today though at a slightly increased density, and without slavishly adhering to the red brick and Georgian type of architecture.

NOTES ON PROGRESS

The annual rate of house building which the Corporation hope to achieve by next year in the Garden City is 400 dwellings per annum. A start will be made this year on the building of 54 2-bedroomed houses for the young married building operative, and 30 of the dwellings now in the course of erection at Hatfield have been specifically earmarked for building operatives. A similar programme of housing for building operatives is likely to be started next year and in decreasing numbers in following years.

The Corporation may, however, run short of housing land capable of being developed unless the Middle Lee Sewerage Scheme, into which the Corporation have been directed by the MOH, is able to provide a connection by 1953.

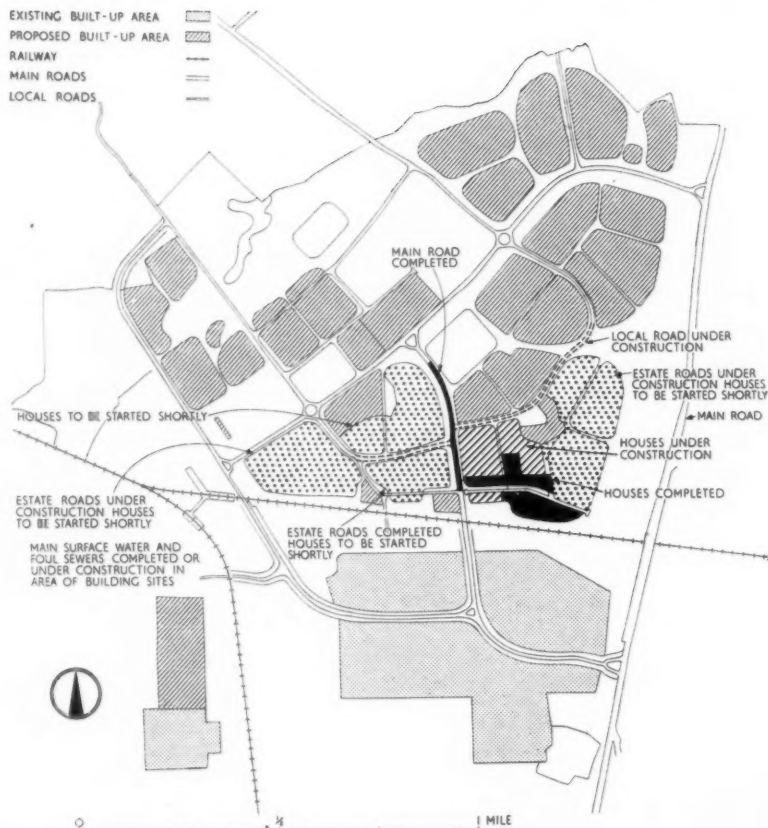
The development outside London's green belt of Welwyn Garden City and Hatfield, as twin communities separated by only a 1,000 yards of open space is the responsibility of two Corporations, which have the same members and to a great extent the same staff. The Corporations are, nevertheless, separate bodies; they have separate consultant planners, separate minute books and separate offices, although for administrative convenience the address of Hatfield Corporation is at Midland Bank Chambers, Welwyn Garden City.

NEW TOWNS: No. 9

Progress report on Aycliffe by D. Rigby Childs

In February, 1947, Lewis Silkin, now Lord Silkin, as Minister of Town and Country Planning introduced the proposal that a new town should be built at Aycliffe. The new town would provide accommodation for the workers on the Aycliffe Trading Estate which is in existence, immediately south of the designatory area on the site of the former Ordnance filling station. The population will come mainly from towns and villages in south-west Durham; the ultimate size of the population is to be 10,000 persons.

Aycliffe is in County Durham. The site is open country and contains an existing population of about 300 persons, spread over a few scattered farm houses and small cottages.



Plan of Aycliffe.

The topography is gently undulating, agricultural land with a fairly deep valley which runs along the northern boundary.

DEVELOPMENT CORPORATION

The Development Corporation includes the following members and staff:—Chairman, The Rt. Hon. Lord Beveridge; vice-chairman, W. N. Davis; general manager, A. W. Thomas; architect, G. A. Goldstraw; engineer, E. W. Ratcliffe; planning consultant, the Grenfell Baines Group.

Outside architects engaged by the Corporation are: Tasker & Austin Child, Newcastle-on-Tyne; Matt Robson & Son, Bishop Auckland; Needham & Thorp, York (all for the design of housing precincts); Basil Spence & Partners, Edinburgh (for the design and erection of serviced apartment block for 200 single persons flats); Hutton & Hutton, Darlington (for conversion of existing farm buildings to community centre and shops); Spence & Price, Newcastle-on-Tyne (for design and erection of a public house).

PROGRESS

1947: April.—Designation Order made for 867 acres.

June.—Work began on the preparation of the master plan.

1948: June.—The first building contract let.

1949: April.—Draft master plan submitted by the Development Corporation to the Minister of Town and Country Planning. (Summary of the draft plan and report has been published. Copies can be obtained from the Development Corporation at 2s. 6d. per copy.)

December.—Minister of Town and Country Planning gave his general approval

of the draft master plan. According to the draft plan, 728.5 acres will be developed or used as town lands.

1950: July.—By this month, 505 acres of land had been acquired.

The number of buildings completed included: Houses, all types, 99; shops, 2.

The number of buildings under construction included: Houses, all types, 136; flats, all types, 18.

The total expenditure on works constructed up to June 30, 1950, was £355,000 (civil engineering, £140,500; building construction, £214,500).

The total labour force at work was 298 men with 128 men on civil engineering and 170 men on building construction.

PROGRAMME

Information about the aims for intake of new population over the next three years is not available.

COMMENT

An attractive feature of the villages in the local region is that they are all built around greens, although the villages themselves vary in size and in character. In Newton Aycliffe the new dwellings are being grouped around green open spaces in a somewhat similar manner; but, as the new precinct greens are smaller than the old village greens and as in some cases the new buildings are higher than the comparable village architecture, a more urban character is being introduced.

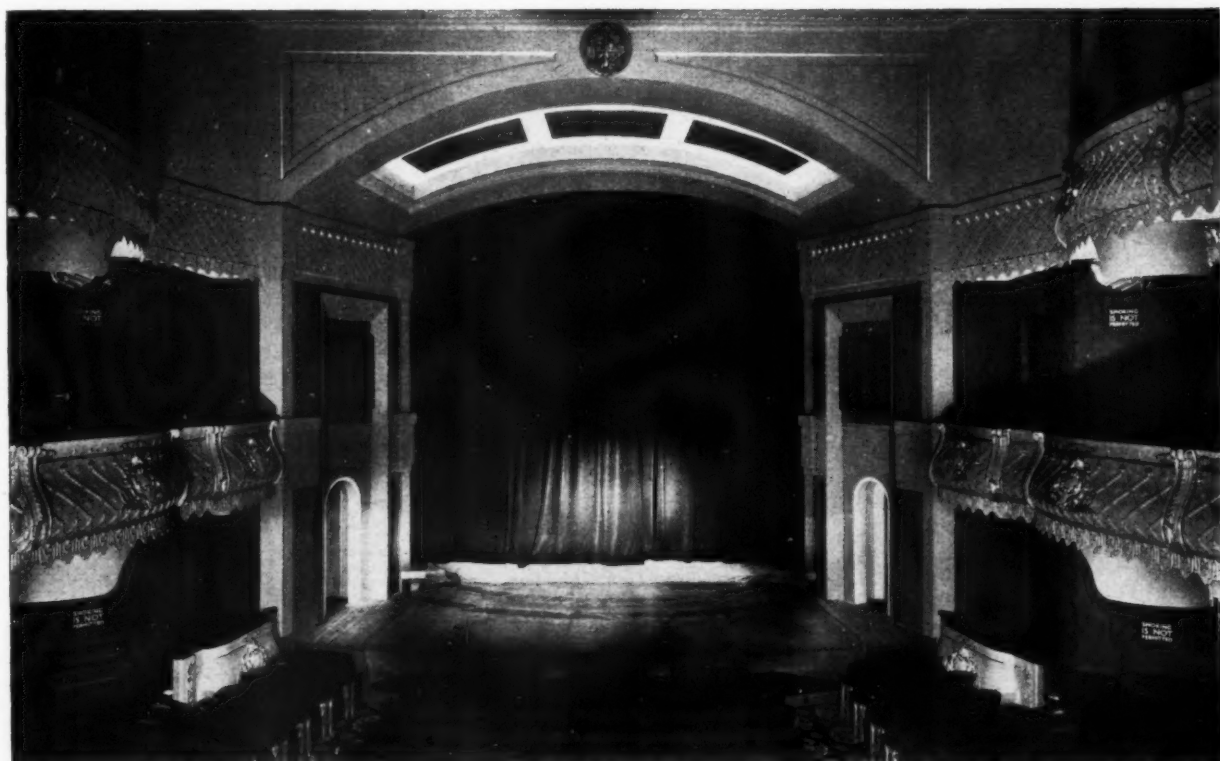
The special difficulties that confront the builders in Aycliffe are: A shortage of labour, owing to the isolated nature of the site; and, the necessity for laying special drainage due to the water-logged condition of parts of the site.

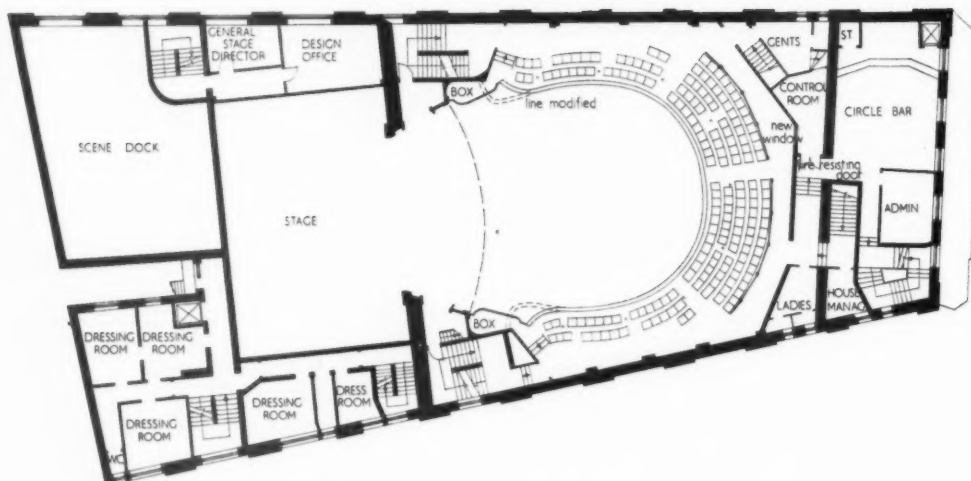
THEATRE

RECONSTRUCTION OF THE OLD VIC, LONDON

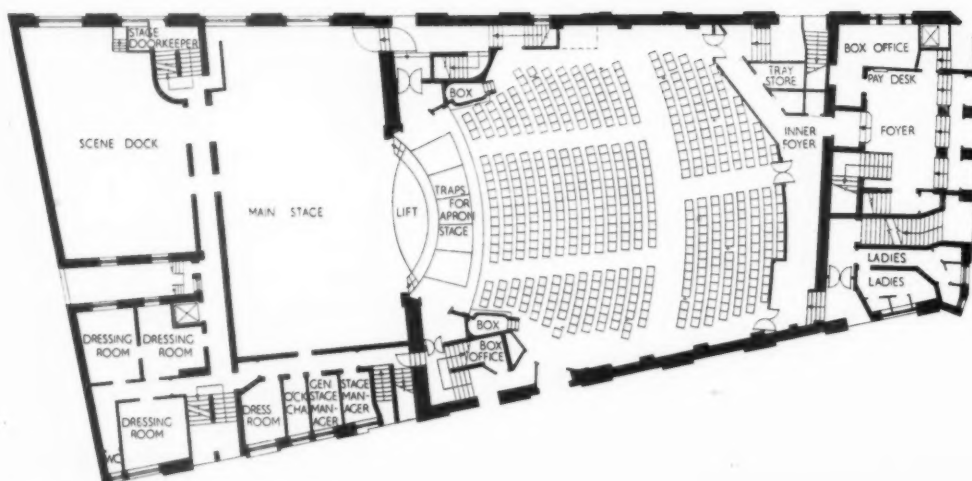
designed by DOUGLAS ROWNTREE in consultation with PIERRE SONREL

Among the alterations carried out at the Old Vic Theatre, Waterloo Road, London, while repairs to war damage were in progress, was the introduction of a permanent forestage devised by Pierre Sonrel. Other alterations were made to facilitate the running of the theatre, to prevent noise from the streets being heard in the auditorium and to bring the building into line with the Lord Chamberlain's requirements.





Plan of Circle, showing modified line of side fronts which improves sight lines



Plan of Ground Floor [Scale: $\frac{1}{32}'' = 1'-0''$]

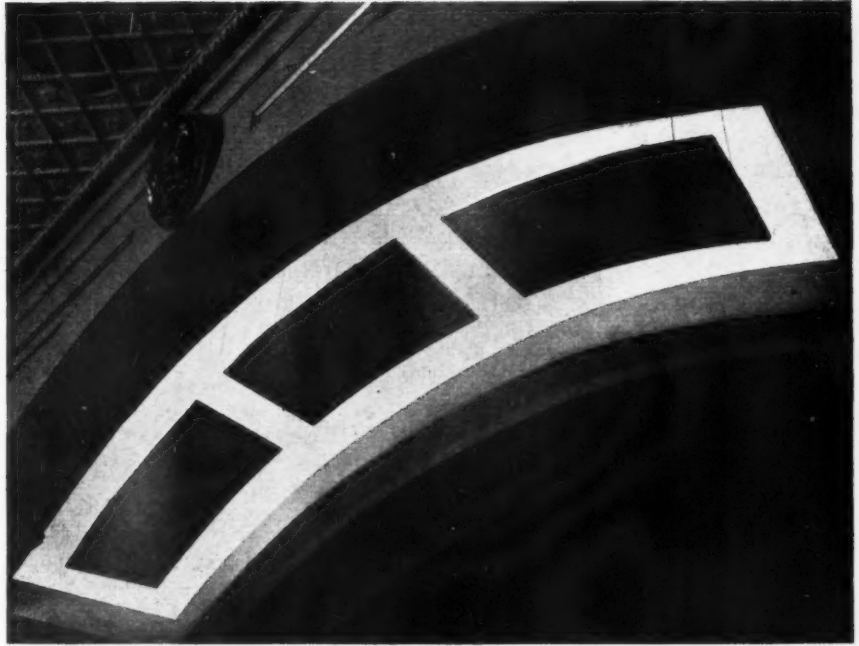
THEATRE

RECONSTRUCTION OF THE OLD VIC, LONDON
designed by DOUGLAS ROWNTREE in consultation
with PIERRE SONREL

STAGE AREA.—The new stage is designed to provide a greater link between audience and actors. The principal problem involved was the designing of forestage flanks in such a way that they would appear to be part of the scenery when the forestage was in use and yet form part of the auditorium when realistic plays were being given on the main picture-frame stage. The problem was solved largely by the skilful use of lighting. This is placed in entrances and louvres at the side of the forestage (see photograph on right) and in the ceiling to the front arch above the forestage, as shown at the top of the opposite page. The ceiling to the arch is coved and although partly concealed by sound boards is lit from troughs.



The lights behind the sound boards in the coved ceiling above the forestage can be used to create an effect of sky, to throw down additional light on to the actors or to combine with the illumination in louvres and entrances to make the forestage a separate architectural unit.



Behind the arch is a bridge from which some of the lighting for the forestage is directed. As the forestage projects 14 ft. in front of the old curtain and is 1 ft. 6 in. below the front level of the main stage, it has been necessary to raise the levels of the auditorium floor to provide a good view of the forestage from all parts of the ground floor. It has been possible to obtain a steeper slope than that existing. A stage lift has been installed between the main stage and the forestage. This can be set at main stage level, forestage level, or intermediately. It can

also be lowered to orchestra pit level to allow for the quick change of properties, which may be raised into position on it. Normally, the orchestra is under the forestage (with grilles in the front through which the music is heard). A large area of the forestage floor is in the form of traps. Any or all of these can be moved, thus allowing further entrances to be provided to the forestage from below. The pelmet has been set at 20 ft. from the stage, 4 ft. higher than is usual. This allows a greater view of the stage action and scenery, particularly from the gallery.



Extreme left, the entrance in one of the flanks to the forestage, showing louvres above from which lighting can be directed. Left, the stage set for "Twelfth Night," showing how illuminated louvres and side entrances can create a link between the main stage and forestage. The ceiling light, shown here, is illustrated at the top of the page in greater detail. Below, this view of the theatre before reconstruction shows the ugly boxes (added in 1926), which have been removed.



THEATRE

RECONSTRUCTION OF THE OLD VIC, LONDON
designed by DOUGLAS ROWNTREE in consultation
with PIERRE SONREL

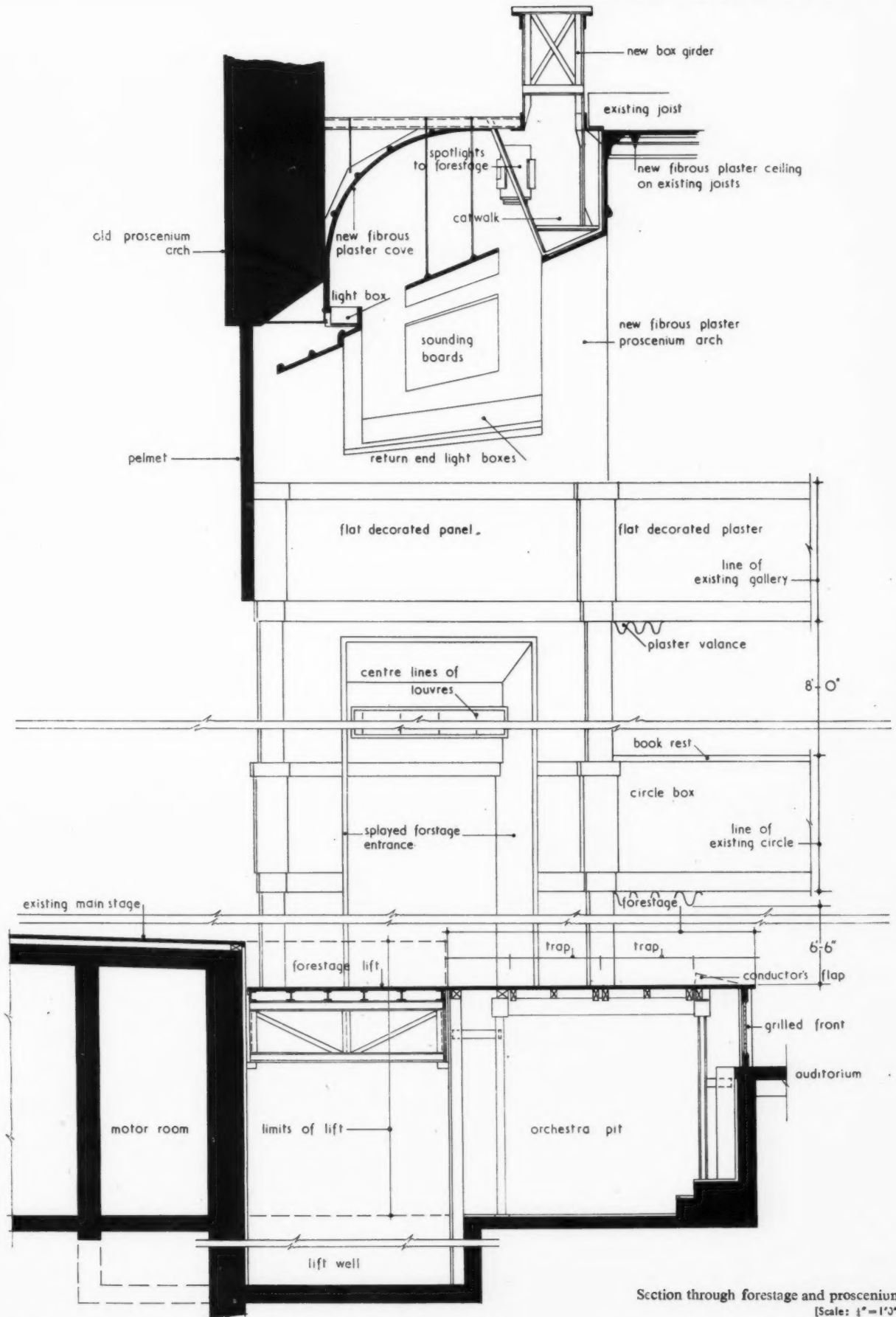
AUDITORIUM.—Alterations made in the auditorium were designed to improve sight lines and to increase comfort as well as to restore the Victorian character of the bomb-damaged theatre. The wallpaper and carpet are patterned in gold and two shades of red. Seats in the stalls are of red plush. Benches in the gallery are covered with rubber foam. The predominant colour in addition to red and gold is grey-green, used in four shades. A medium shade is used on the fronts of the gallery and circle. A lighter shade is used on the ceiling above the fore-stage and a darker shade on panels and louvres in the forestage flanks. The decorations on the ceiling, and on the gallery and circle fronts, are of gold. The motifs used for the gallery, which has blue cartouches, and for the saucer dome are the same as those originally existing. The motif on the circle front is a new design, incorporating existing patterns. The imitation kerosene-oil chandelier was designed specially by James Brown, who was responsible for the colour scheme and decorations. The gold caps to the red pillars have been remodelled.

The consulting engineers were Andrews, Kent and Stone. The general contractors were F. G. Minter (Decorations) Ltd. Sub-Contractors: page 468.



Above, the electronically-controlled stage lighting is operated from this panel in a box at the back of the circle. Subtle variations in colour and in strength of lighting can be obtained. Below, the Victorian atmosphere of the auditorium has been retained. Sight lines have been improved and a wall has been constructed at the back of the stalls, thus creating an inner foyer and preventing the sound of traffic being heard by theatregoers.





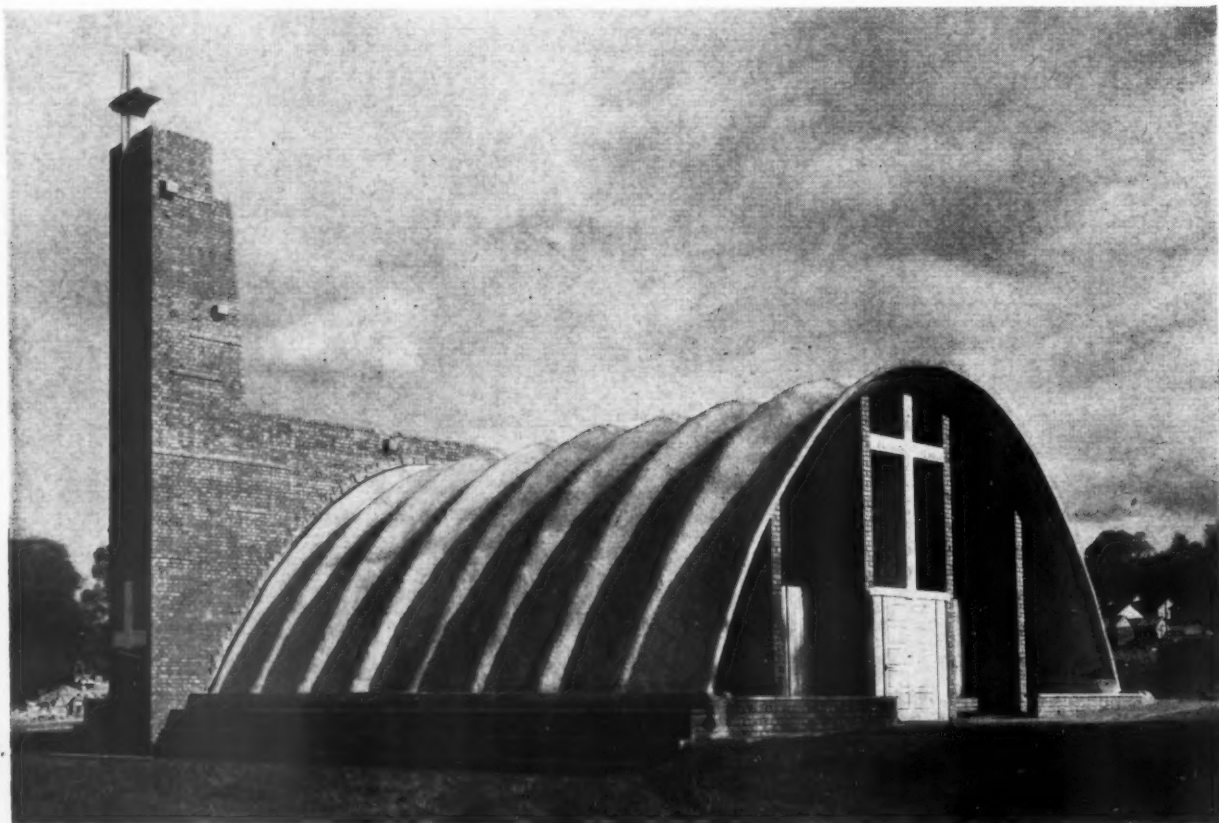
Section through forestage and proscenium
[Scale: 1/4" = 1'-0"]

CHURCH

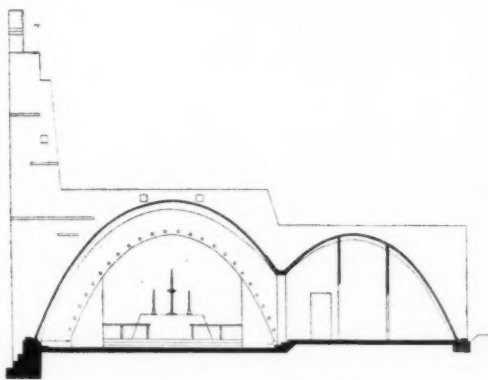
at LAWRENCE WESTON, GLOUCESTERSHIRE
designed by BURROUGH and HANNAM

The church of Christ The King and St. Peter has been built on a new housing estate near Bristol at a cost of £6,000. It seats 350 persons and can be converted for use as a community hall.

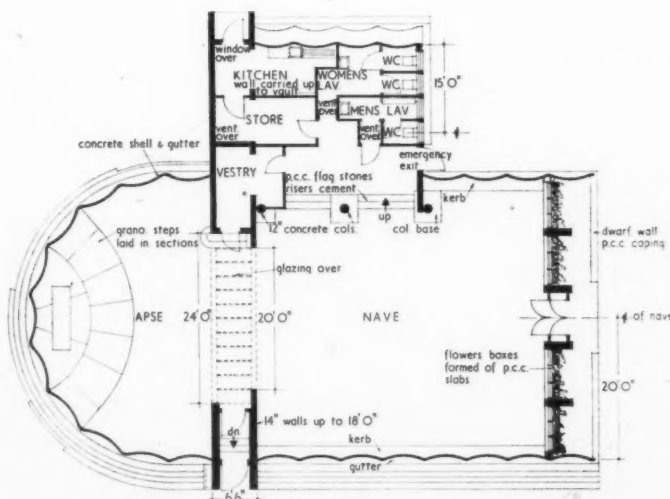
The church from the north-west.



The nave, looking towards the apse. The doors on the right lead to the vestry and kitchen. The concrete vault is left untreated and is painted pale rust in the nave and white in the apse.



Section through nave, store and kitchen

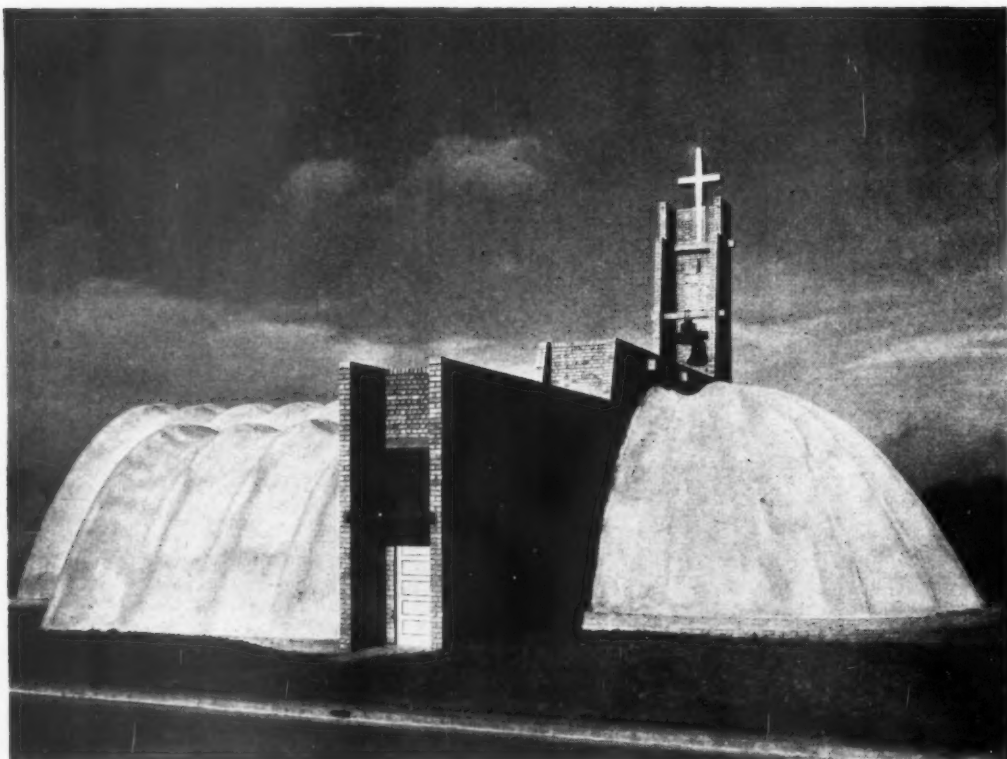


Floor plan [Scale: $\frac{1}{8}$ " = 1'0"]

PLAN.—The apse, when separated from the nave by a roll-up curtain, seats 70 persons and is entered by a door on the north side. A kitchen, store, vestry and lavatories are situated on the south side.

CONSTRUCTION.—Both the nave and annexe are enclosed by a corrugated concrete shell in the form of a catenary arch. The span of the arch over the nave is 40 ft., over the annexe 30 ft. The concrete, 1 : 3 cement and sand, is applied in three separate layers on stretched hessian, carried on tubular centring, which is later removed. The shell is $2\frac{1}{2}$ in. thick. Corrugations are due to the sag of the hessian under the weight of concrete. (A full description of this method of construction and its possibilities appears in the Technical Section of this issue.) The reinforced concrete beam at the junction of the two spans is supported on three reinforced concrete pillars, poured in permanent shuttering of 12-in. spun concrete pipes. The apse and nave are separated by two 9-in. brick walls, 5 ft. 6 in. apart. The space between the two walls is glazed. The walls are carried to a height of 50 ft. on the north side. Daylighting in the nave is provided by windows in the west wall consisting of $\frac{1}{4}$ -in. plate glass in metal frames. Internal walls are of concrete block. The floor, of similar construction to the skin, consists of a 1-in. layer of concrete suspended on coir netting.

FINISHES.—Floor, black, pitch-mastic. Vaulting: apse, dead white; nave, pale rust. Concrete block



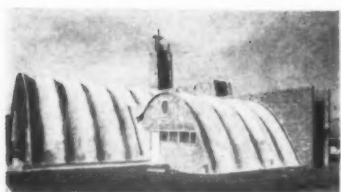
The church from the south-east.

walls, pale lemon. Doors, Oxford blue. Pillars, signal red. Window frames, dark red. Pipes and conduits, dark red, picked out in gold. Furniture in nave, deal, painted Oxford blue, signal red and gold. Furniture in apse, Oak and teak, picked out in gold. Carpets: sanctuary, blue; altar, red.

above floor level in each trough of the vaulting, consist of 150-w. bulbs fitted in inverted shades. Four industrial fittings holding 200-w. bulbs provide artificial illumination for the apse. Heating is by overhead gas radiants.

The general contractors were Hayward and Wooster Ltd. A list of sub-contractors appears on page 468.

SERVICES.—Lighting fittings in the nave, 8 ft.



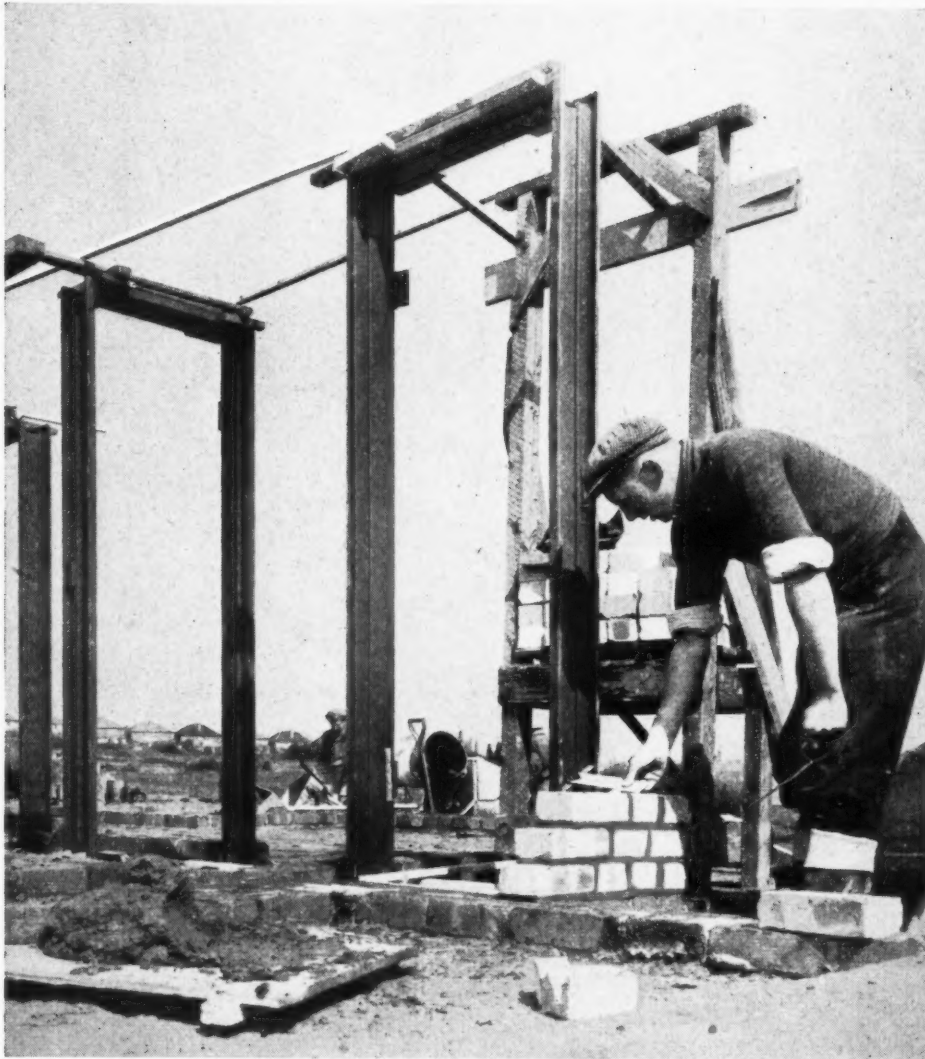
From the south-west.

CHURCH

at LAWRENCE WESTON, GLOUCESTERSHIRE
designed by BURROUGH and HANNAM



The nave looking west.



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A showroom at Hoods Ltd., Birmingham. Architects: Messrs. William Green and Associates.

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TECHNICAL SECTION

"Ctesiphon" construction has been in use for 10 years, but its use for a church (see pages 460-462) is an unusual development, which should arouse considerable interest in this economical method of building.

THE "CTESIPHON" SYSTEM OF CONSTRUCTION

The catenary arch is the ideal theoretical form for concrete construction, the concrete being entirely in compression. Taking advantage of the stiffening effect of corrugation, the "Ctesiphon" system of construction, developed by J. H. de W. Waller, makes possible the spanning of large areas with a very thin shell of concrete. For spans up to 60 ft. this need only be 2 in.-2½ in. thick.

Structurally, no reinforcement is necessary since there are no tensile stresses but some light steel reinforcement is usually used to resist stresses induced by thermal expansion and contraction.

A minimum of centring is required—only temporary ribs of light scaffolding, over which hessian is stretched. The natural sag of the hessian, under the weight of the rendering, forms the corrugations. Naturally these vary with the size of the span—usually the pitch equals 1/10th of the span and the depth of the corrugations is roughly 1/5th of the pitch.

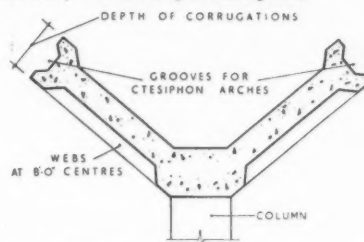
Being entirely in compression, the concrete has more than its usual resistance to water penetration and no external covering is used; capillary attraction is prevented by laying the concrete—actually 1:3 cement and sand—in 3 layers, waiting for the initial set of each before applying the next. Spatter-dashing with a lime mixture improves the external appearance, but is not essential. Internally, the hessian becomes impregnated with cement and, if distempered, provides quite an adequate finish for stores, workshops, or similar buildings. If required, a normal plaster finish can be applied.

An ingenious method of inserting windows, requiring neither trimming nor shuttering, is used. The metal frames, usually employed, are fitted into an aluminium surround

which is, literally, stuck on to the first coat of the rendering; the cement against the inside of the surround is removed and, after the remaining layers have been applied, by simply cutting away the hessian, the single layer of rendering under the window drops out.

The acoustical properties are improved by the corrugations and the hessian. For increased thermal resistance, a double skin can be constructed, providing a sealed cavity. In hot climates or elsewhere in buildings which are liable to become overheated, the shape of the building induces natural convection currents and hot air will find its way to the apex of the arch where it can be readily exhausted by simple ventilators.

Provided the arch retains its catenary shape, it need not extend right down to the ground; hence multi-span arch construction can be used to cover extensive areas. The example illustrated, a jute factory at Umtali, S. Rhodesia, is 300-ft. square—lattice concrete valley beams supported by columns every 35-ft., carry the corrugated concrete arches, which each span 44-ft. Since this factory was built, it has been shown that these heavy lattice beams are not essential—Y-shaped concrete valley beams (as illustrated below), suitably reinforced but homogeneous with the arch concrete, would be quite adequate.



The "Ctesiphon" form of construction is equally suitable for covering large areas on the multi-span principle or by single large spans. An aeroplane hangar has been designed with a single span of 400-ft.; the concrete shell, in this case, would have an average thickness of 4½ in. But there are other applications too: it is being used for native housing in Central Africa and in 1945, F. R. S. Yorke, E. Rosenberg, and C. S. Mardall designed a low-cost emergency house, suitable for this country, using a corrugated concrete arch. This method of building is far from being purely utilitarian, the recent example illustrated on pages 460-462, a church near Bristol, indicates that both the internal and external effects can

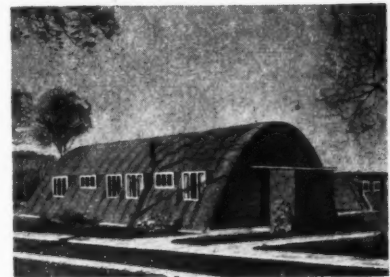
be interesting and attractive and not unsuited, even for a place of worship.

Although the use of this system of construction is obviously limited to single storey buildings where there is no objection to the shape, as a method of covering large areas it has proved to be very economical. It is alleged that space has been covered for a cost as low as 6/- to 8/- per sq. ft. It is also rapid to erect and requires very little skilled labour. A farm building at North Ythsie, Aberdeen, covering 8,000 sq. ft. (40-ft. span, 200-ft. long) was erected by one skilled and eight unskilled men within 26 days of the concrete foundations being completed.

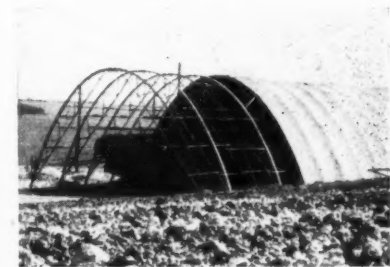
With smaller buildings, the proportion of end walling increases, but in sufficiently large numbers, these too can be built economically.



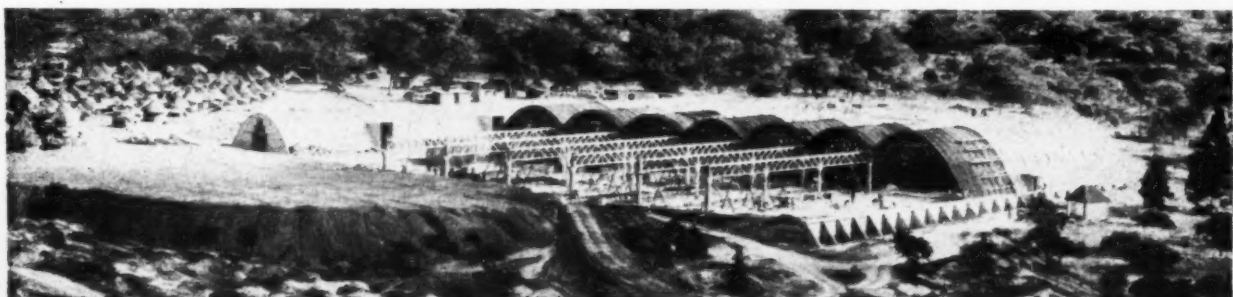
Native housing in the Belgian Congo.



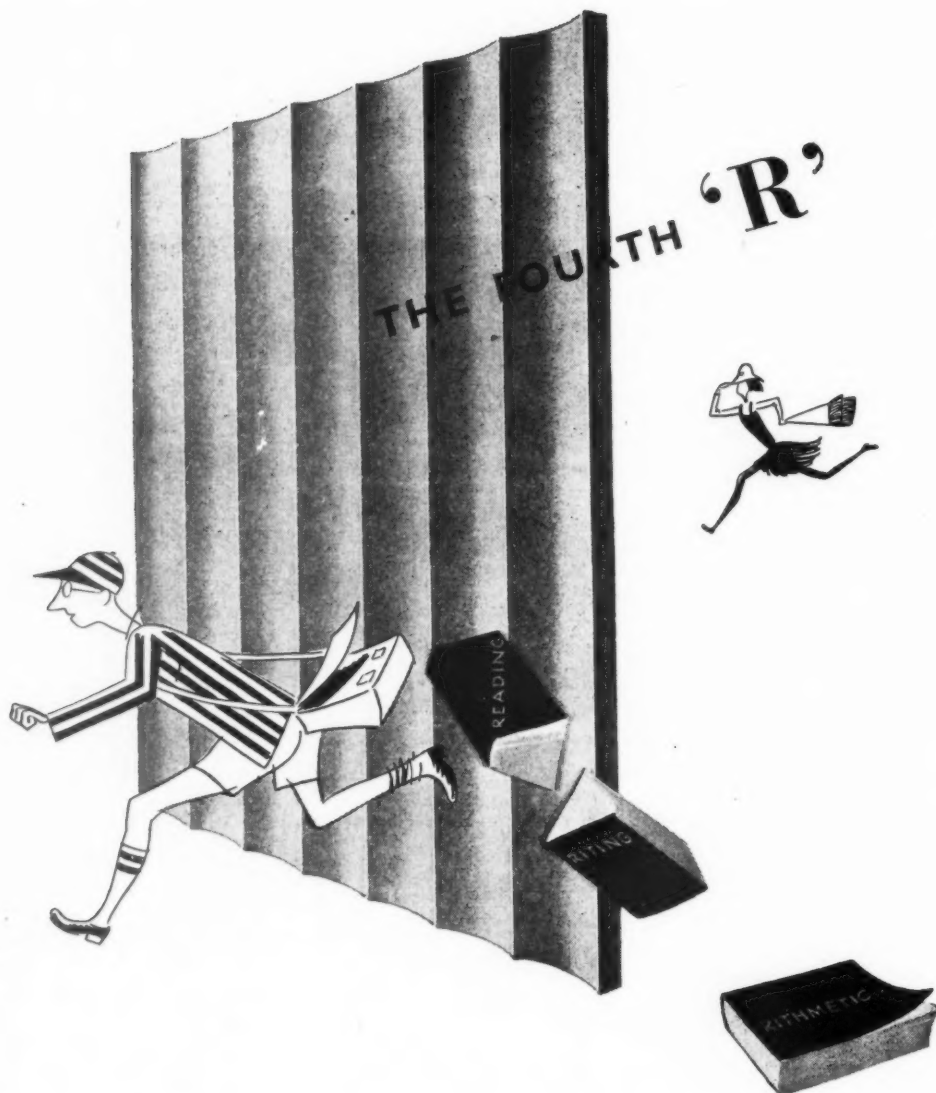
Emergency housing designed in 1945. (From a perspective by Peter Shephard.)



Store for agricultural machinery erected entirely by farm labour. (Note the simplicity of the temporary rib supports.)



Jute factory at Umtali, S. Rhodesia. Multi-span application of "Ctesiphon" system.



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For purposes of comparison, it is interesting to note that the increase in Rates of Wages from August 1945 to August 1950 (the period covered by this Index) was 25% and 29% for craftsmen and labourers respectively.

THE INDEX OF MATERIALS PRICES

by Ian Bowen

The quarterly index of changes in the prices of building materials, based on 44 price quotations, has now been calculated up to the third quarter of 1950, and the results are shown in the table below.

TABLE I
CHANGES IN THE INDEX OF BUILDING MATERIALS' PRICES
(August, 1945 = 100)

Year	Quarter	Index
1945	3	100.0
	4	102.3
1946	1	104.4
	2	106.2
	3	109.1
	4	111.7
1947	1	114.1
	2	121.5
	3	123.6
	4	128.4
1948	1	130.4
	2	129.8
	3	129.6
	4	131.4
1949	1	132.5
	2	131.3
	3	129.9
	4	132.4
1950	1	131.1
	2	130.8
	3	133.8

The post-war movements in the prices of materials, over the five-year period, show a distinct, if irregular, pattern. The steepest rise took place from the second quarter of 1946 to the second quarter of 1947, during which period it advanced by 15.3 points, and this upward surge continued (though at a diminishing rate) until the first quarter of 1948. Thereafter the index has fluctuated at a figure approximately 30-33 per cent. above the 1945 level.

Building materials have not been as seriously affected by inflationary forces as many other classes of commodity (non-ferrous metals, for example, or even iron and steel—and even worse examples recently have been textiles generally and raw wool in particular). The control of building has evidently been far from ineffective.

THE INDEX SINCE DEVALUATION OF THE £

This had surprisingly little effect on the index. There are, no doubt, several reasons for this, the chief being that home-produced materials outweigh in importance imported ones and, further, that the latter would only have an upward trend as a direct result of devaluation if they came from hard currency areas. In fact, the net import effect of devaluation only pushed up the index from 129.9 to 132.4 between the third and fourth quarters of 1949. Thereafter an unexpected reaction took place. The index fell to 130.8 over the next two quarters, only to resume its upward rise in August of this year, when it reached its highest recorded level.

The most remarkable features of building materials' prices, taken as a whole, since 1945, have been the steepness of the immediate post-war rise, which lasted for two and a half years, and secondly the relative stability thereafter—which also endured for two and a half years, during which time the cost of living and many wholesale prices

continued to advance. Unfortunately this period of stability came to an end (if indeed it has) in the second half of 1950. The Korean war (rather than devaluation) seems to have marked the new turning-point.

THE GROUPS OF COMMODITIES

The first group of commodities includes mainly "imported" items, and felt to the full the "import" effect of devaluation, rising by 10 points in the last quarter of 1949. Thereafter occurred a remarkable reduction, due mainly to a decline in the price of paint (though this was partly offset between February and May, 1950, by increases in the prices of varnish and linseed oil). In the third quarter of 1950 not only paint but linseed oil putty began to rise again. All other imported items have remained unchanged in price.

GROUP II: METAL PRODUCTS

The index for these items stood at 147.4 in August 1949, and after some fluctuations similar to, but less severe than, those of Group I, this index reached 151.6 a year later.

From the third to the fourth quarter of 1949 there were rises in seven of the eighteen items in this group (particularly lead pipes, screws, ball valves and taps). During the first six months of 1950 prices fluctuated a great deal, but in the third quarter thirteen of the eighteen items showed a rise. Most important was the increase in the price of steel, but the rise was quite general.

Group II, indeed, increased by no less than 7.3 points from Quarter 2 to Quarter 3 of 1950. It is here, rather than in Group I, that the main cause of the increase in the index as a whole must be sought.

GROUP III: QUARRIED PRODUCTS

Prices of these products remained unchanged for two years (from the second quarter of 1948 to the second quarter of 1950). But, between May and August, 1950, the price of lime was increased.

The stability of these items for such a long time was remarkable. The effectiveness of a firm, but not too dictatorial, official control seems to have been demonstrated, and it can only be hoped that the same restraining influence will have some success even if inflationary pressure increases. The stability of Group III stands in marked contrast to the fluctuations recorded for Groups I and II.

GROUP IV: "PRIMARY" PRODUCTS

Prices of materials in this group have advanced less steeply since 1945 than those of

any other group, the rise to August, 1950, only amounting to 11.6 per cent. This is a group which includes cement, bricks, plasterboard, salt-glazed drain pipes and other "heavy" materials.

The slowness in the net increase of prices of these materials is again partly due to the effectiveness of control and also to the inclusion in the group of several materials that can be produced progressively more economically as both techniques and scale of production advance. Plasterboard, for instance, went down in price both in the fourth quarter of 1949 and the first of 1950. During the twelve months to August, 1950, there were, however, several increases in quotations relating to asbestos, cement materials, cement itself, plaster, tiles, sinks and roofing slates. Six of the sixteen items in the group went up in price in the third quarter of 1950.

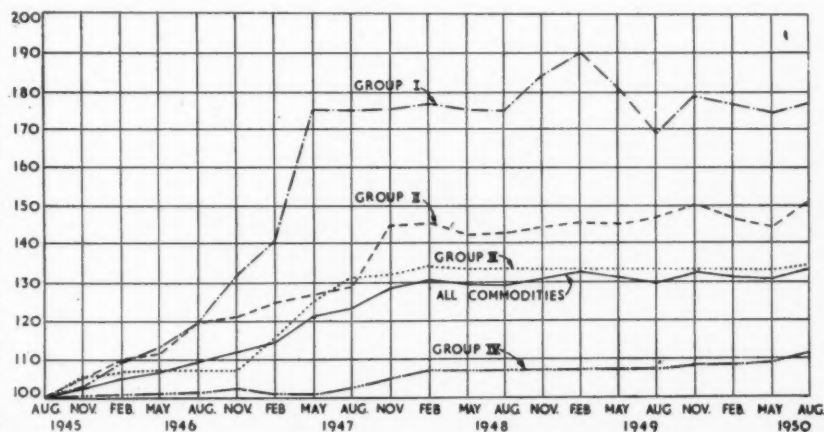
GENERALLY

Taking the groups as a whole the story is fairly clear. The government, in co-operation no doubt with the trade associations, gained considerable control over the course of building materials' prices after their break-through in 1946 and 1947.

Success of this kind often goes unpraised. Yet this was a worthy minor part of the stabilization policy of 1948/9.

The whole of this was upset by the shock of devaluation. This, however, proved to be less severe or lasting than had been feared. Much worse has been the disturbing effects on the whole price system of rearmament and all the consequences, direct and indirect, of world shortages of raw materials. As for the future, the wage-concessions that may have to be made in some industries will be an important factor in 1951, and it is hardly to be hoped that materials' prices can be prevented from increasing. Once this phase is over, however, apart from a world catastrophe, there should be a new period of stability as in 1948 and 1949. Should this occur, technical developments should once more ensure that prices will tend to move downwards rather than upwards; and perhaps a nationalised steel industry will be too responsibly managed to permit "metal products" again to spoil the otherwise fairly harmonious picture.

As for the imported items, their future can only be guessed; evidently it depends largely on world (especially American) demand for timber and on the possibility of Scandinavian or Baltic supplies becoming more plentiful—at a reasonable price.



Indices of Building Materials Prices
(August 1945 = 100).

WEIGHTS OF ITEMS IN EACH GROUP AS % OF TOTAL

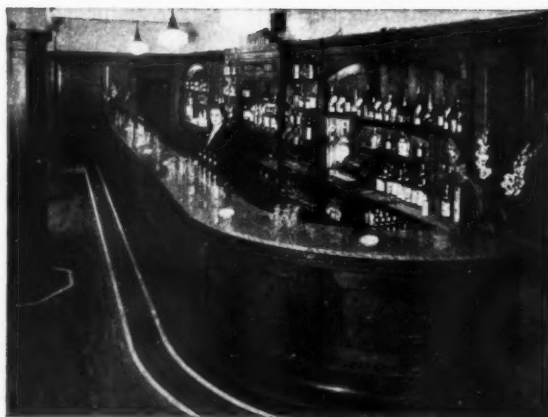
Group I.	Imported products	14.6
Group II.	Metal products	21.7
Group III.	Quarried products	14.4
Group IV.	Primary products	48.9



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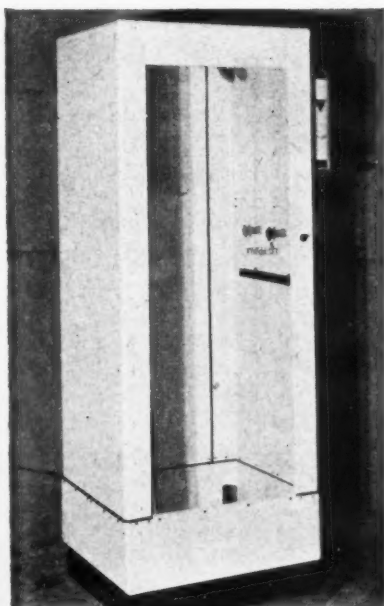
This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the Building Industry.

THE INDUSTRY

By Brian Grant

Once again the Gas Council has revised its exhibit at the Building Centre, a policy which no doubt meets with the approval of the Centre's Council (far too many exhibits remain the same year after year), and which certainly provides the architect with something new to see. Last week's official opening provided quite a number of new appliances, some of which are illustrated on this page.

At first glance perhaps, the most interesting is the shower cabinet produced by Hot-springs Ltd. This can be fitted in a space only 3 ft. 2 in. wide and 2 ft. 3 in. deep and costs £45 complete, plus £3 7s. 6d. purchase tax. Hot water supply is by one of the small Ascot sink heaters, which has an output of 1½ gallons a minute raised 40 F., and the shower temperature can be adjusted through the hot and cold taps. This seems just the thing for houses with no bath, or for flat conversion jobs, as a shower plus soap really provides a perfectly adequate means of washing in half the time and with about one quarter of the usual amount of hot water. Most people would probably like a bath as well, but the fact that a house has a shower and no bath does not mean that it is sub-standard. Bathing small children is, of course, a minor difficulty, but the base of the cubicle is deep enough to provide a small bath, the upstanding waste plug and overflow seen in the illustration giving an idea of the depth available. Rubberized curtains are included in the price. (Hot-springs Ltd., 1, Rock Hill, Bromsgrove, Worcestershire.)



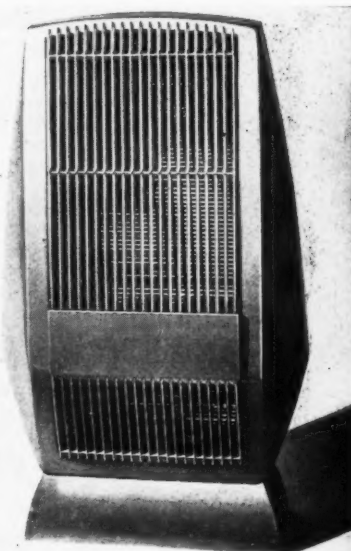
Among the cookers is a new model 20 by R. & A. Main. This seems to be quite a pleasant, clean design with four boiling rings, grill, and a small storage cupboard under the oven. All taps are the safety type which have to be pushed in slightly before they can be turned on. The oven is 17 in. wide and 15 in. deep and has a spring-balanced bottom-hung door, which seems to be a sensible device, but one of which cooker manufacturers in the past have been rather shy, on the grounds that some cooks have the unfortunate habit of standing on the door in order to reach a high shelf. If the door is relatively feeble it falls off, but, on the other hand, if it is strong enough the whole cooker falls on its face, the cook suffering to greater or less degree whichever happens. Price is not yet fixed, but the construction is claimed to be extremely simple, and it is hoped that the price can be kept moderate. (R. & A. Main Ltd., 28, Grosvenor Gardens, London, S.W.1.)

A considerably larger cooker, for restaurants or canteens, was shown by De la Rue Ltd. This has five boiling burners, a large grill and extra large oven, 23½ in. w.d.e, which will take two dishes side by side on each shelf. The price is £57, with a splash back and plate rack. (Thomas de la Rue Ltd., Imperial House, 84, Regent Street, W.1.)

The Cannon cooker was shown with a pair of extension flaps to give extra width to the hot plate. These are easily fixed and are produced in all the colours of the standard cookers at a price varying from £1 14s. to £3 2s., according to the finish, single flaps being half this price. (Cannon Iron Foundries Ltd., 4, Park Lane, W.1.)

Radiation Ltd. showed a new flueless heater for background warming, the Merlin 678. The gas consumption of this model can be rated at either 12 or 16 cubic feet an hour, and, in addition to the warm air supply, there is also a certain amount of reflected radiation from the heated element. A caption to the photograph describes the design of the heater as "streamlined, modern." I have little doubt that it will be much admired by large numbers of the general public, though I suspect by only a very few readers of these notes. Price is £7 11s. 3d., plus £4 3s. 10d. purchase tax. (Radiation Ltd., Stratford Place, London, W.1.)

Going around an exhibition of this kind and seeing goods marked as one seldom does in the ordinary shop, with the price and purchase tax as separate figures, gives one a definite impression that the whole system of purchase tax works in a somewhat peculiar way. On most gas appliances purchase tax is levied at the rate of 66 per cent., and the officially announced object of the



The Merlin space heater, 678.

tax is to limit the sale of appliances so as to keep down gas consumption, the same reasoning and rate of tax being applied also to most electrical appliances. That this tax can be somewhat absurd in practice is shown at this exhibition by a gas-heated towel rail, which burns only 1 cubic foot an hour, or little more than the amount to keep alight the pilot flame of an instantaneous water heater. Most of the cost of these appliances is, of course, made up of the pipe work and plating, and the purely gas fittings cannot cost more than a shilling or so, so that it would seem ridiculous to pay £3 7s. 2d. tax on a fitting which costs £6 10s. It seems time either to revise the rate of tax or to adjust it so that the more efficient fittings, or those which use only small amounts of gas, should pay tax at a lower rate.

Announcements

The telephone number of Messrs. Vickers & Stanley, estate agents, surveyors and valuers, 80, Duke Street, W.1, is now Grosvenor 7135.

Messrs. J. Stanley Beard, Bennett & Wilkins, have taken into partnership Mr. R. D. Knott, L.R.I.B.A., and Mr. J. R. Royce, A.R.I.B.A. The practice will be continued under the same name as hitherto.

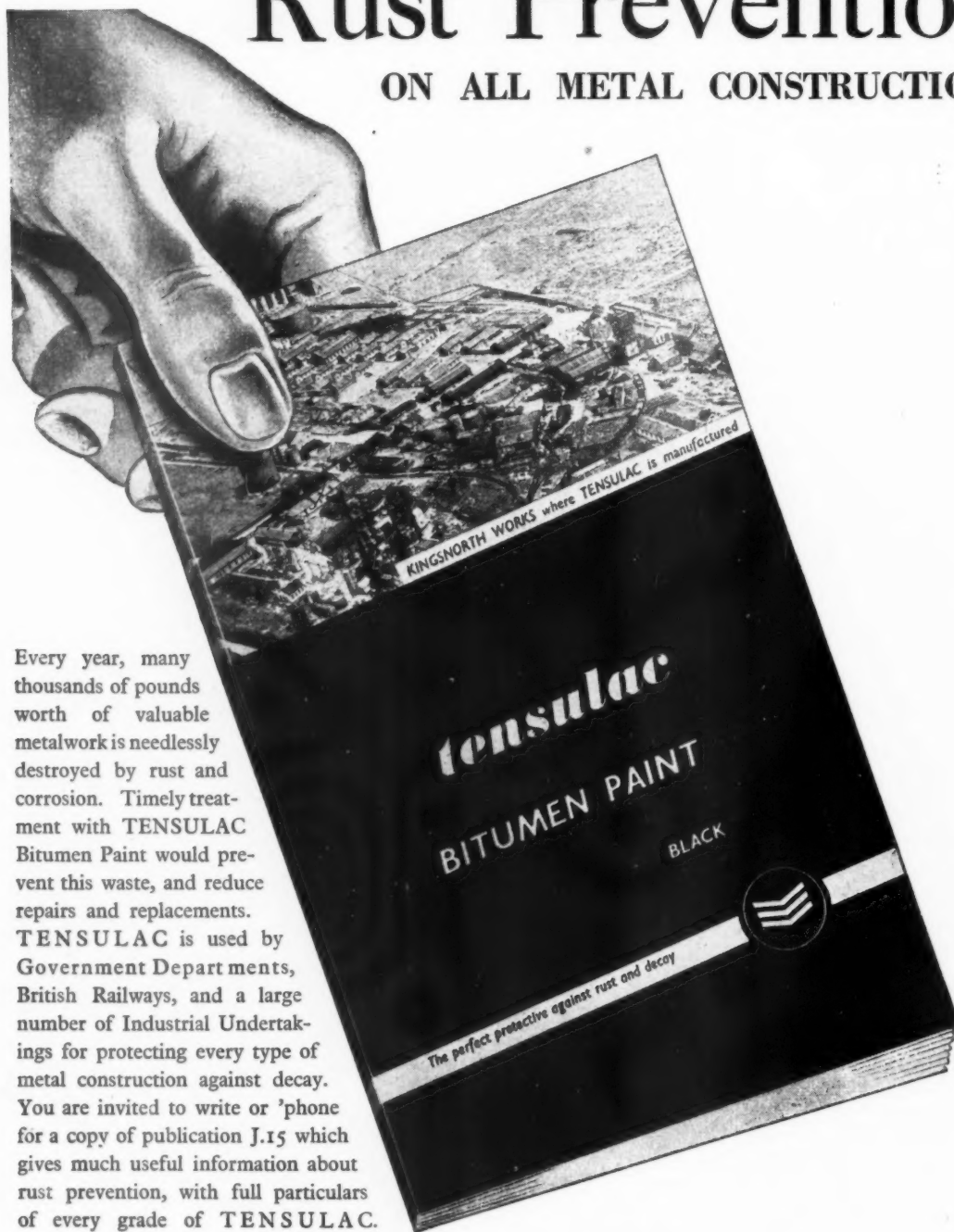


Left, Hot-springs Shower Cabinet. Right, Cannon cooker extension flaps.

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INFORMATION CENTRE

10.79 design : building types HOUSING

Housing: The Next Fifty Years. Report of 1950 Housing Centre Conference. (Housing Centre Bulletin No. 124. 1950.)

Report of opening address and five papers and discussions. Reduction in cost of housing. Housing agencies and rent policy. Housing, the next fifty years. Very good general interest.

This 47-page Bulletin gives summaries of all the papers and discussions at the Conference convened by the Housing Centre. The general theme revolves around costs, how to reduce them and how to deal with rents which arise from them but many points having general design implications also arise. The Earl of Verulam in his opening address said he thought prefabrication had been approached incorrectly because it had fallen largely into the hands of the aircraft industry which was primarily a designer's rather than a manufacturer's industry. He queried whether the present method of accountancy in housing was correct and thought that changes might benefit the tenants. Especially he thought there might be changes in the basis on which the life of buildings was decided.

Mr. Costain and Mr. Fitzmaurice dealt with the subject of reducing costs of housebuilding. Mr. Costain spoke largely from the contractor's point of view and wished to get rid of some but not all controls. Mr. Fitzmaurice spoke on the size of houses and suggested further consideration of the possibility of making better use of space. This point was taken up in discussion by Mr. Grenfell Baines who showed a design for a more efficient use of space than is normal. Mr. Fitzmaurice also discussed technique and the avoidance of waste and referred to trouble caused by late discussions or changes of mind by committees not having a full awareness of the effect of their actions upon work in progress.

Housing agencies and rent policy were discussed by Mr. Hugh Molson, a member of the Central Housing Advisory Committee, and Mr. J. Bommer of Holland also dealt with this subject and gave some account of the problem in his country and the working of their many Housing Associations.

A final paper by Mr. John Cripps, editor of the COUNTRYMAN took the form of a summarising of the earlier sessions of the Conference.

13.63 materials : timber TIMBER FLOORING

The Wearing Property of Wood Floors. 2. Wear in Relation to Structure. Harold T. Eyres. (Wood, Oct., 1950.)

Effect of rift and flat sawing. Speed of growth, pore size and arrangement. Fibre/pore ratio. Fundamental approach to subject but well illustrated by reference to various woods. Useful. Illustrated.

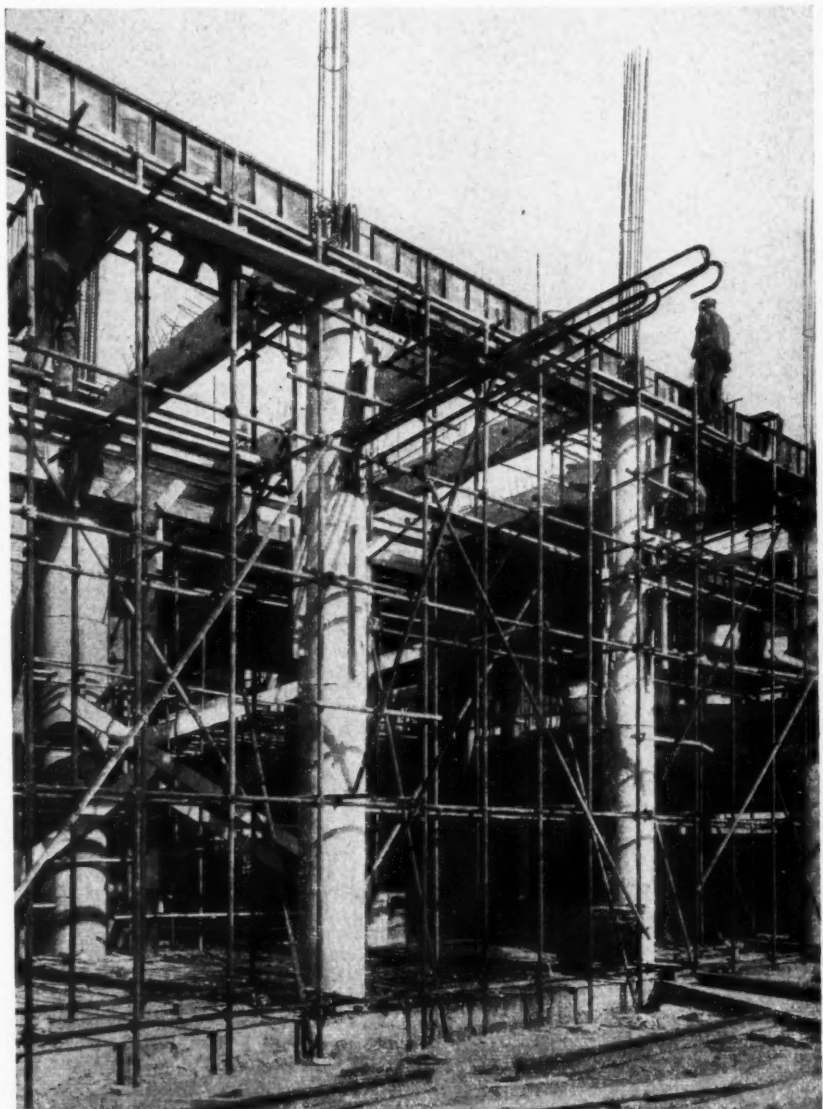
This is the second of a series of articles on the wearing properties of wood floors and is both clear and useful. It discusses the basic factors which affect the wearing properties of timber but because it illustrates the arguments by frequent reference to timber in everyday use it is of immediate value as well as being of general interest. Timbers mentioned include, Douglas fir, pitch pine, oak, teak, jarrah, mahogany, maple and birch. Methods of sawing, rate of growth, density, pore structure and the fibre/pore ratio are the chief factors discussed.

17.71 construction : general CONCRETE PRACTICE

Concrete Practice in Building Construction. (Cement and Concrete Association, London, 1950.)

Gives reasons for the many clauses in regulations, specifications and codes of practice. Clearly written, well illustrated. Most useful to those responsible for supervising work on site. 62 pp., 29 figures.

Requirements laid down in specifications for concrete work are so numerous and often so involved that their thorough study would take far too much of the time which has to be given to supervising the job on the site. In this booklet an attempt has been made to provide the missing link between regulations on paper and actual practice. Many clerks of works and others will find it a great help in checking the mixing of aggregates and the concreting in all its phases, from the storing and testing of materials to the placing and curing of the concrete. The sampling of concrete is discussed, the effects of frost, seawater and chemicals, and how to protect the concrete. Formwork of timber, steel or precast concrete is another subject, and very useful notes are given on practical details, such as oiling of the forms and their removal, external and internal vibration, finishing of walls and floors, lightweight and prestressed concrete. The tables and data sheets given as a form of appendix should be particularly useful for quick reference. Fig. 20 is intended to show the correct method for internal vibration; the caption, however, refers to faulty practice, and may well mislead the reader.



Precast concrete pipes used as permanent shuttering. See 17.71. (The building is a paint factory at Dagenham for Lewis Berger and Sons Ltd.)

Buildings Illustrated

Church of Christ The King and St. Peter, at Lawrence Weston, Gloucestershire. (Pages 460-462.) Architect: Burrough & Hannam, F./A.R.I.B.A. "Ctesiphon" construction designed by Waller and Billig, Civil Engineers. Contractor: Hayward and Wooster Ltd. Sub-contractors: Concrete shell, Barchild Constructions Ltd.; windows, Williams and Williams Ltd.; patent aluminium glazing, Mellows & Co. Ltd.; lighting fittings, Merchant Adventurers; roll-up curtain, John Wood & Sons; wiring, Blackmore & Nation; heating, Bristol Gas Co.; furniture, Hayward and Wooster Ltd.; furnishings, Hancock and Co.; garden work, K. Smith; floor, Western Trinidad Lake Asphalt Co. Ltd.

Indian Army War Memorial Chapel, Royal Military Academy Chapel, Sandhurst, Camberley. (Pages 450-451.) Architects: Hugh and Margaret Casson, F./A.R.I.B.A. General Contractor: Russell Bros. (Paddington) Ltd. Sub-contractors: Slate floor and marble, Bingley Son & Follitt Ltd.; electric wiring, Royal Engineers; electric light fixtures, Merchant Adventurers Ltd.; panelling to piers, gallery balustrade and organ dado, Russell Bros.; wallpapers, Cole & Sons (Wallpaper) Ltd.; organ screen, H. H. Martyn & Co. Ltd.; memorial screen, all carving by Peter Morton, sculptor, construction by C. A. Bruce; carved regimental badges, The Rowley Gallery Ltd.; organ, Rushworth & Dreaper Ltd.

The Old Vic Theatre, Waterloo Road, S.E.1. (Pages 455-459.) Architect: Douglas Rowntree, F.R.I.B.A., in consultation with Pierre Sonrel, D.L.P.G. General Contractor: F. G. Minter (Decorations) Ltd. Consultant Engineers: Andrews, Kent & Stone. Sub-contractors: Structural steel, Matthew T. Shaw & Co. Ltd.; special roofings (glass fibre quilting), Fibreglass Ltd.; glass (glass to canopies), Pilkington Brothers Ltd.; patent

glazing (canopies), Luxfer Ltd.; stage flooring, Hollis Brothers Ltd.; central heating, ventilation, overhauling existing boiler equipment, Barrett & Wright Ltd.; gasfitting, South Eastern Gas Board; electric wiring, The Strand Electric & Engineering Co.; electric light fixtures, British Electrical & Manufacturing Co. Ltd.; telephones, General Telephones Systems Ltd.; rolling shutters, steel cupboards and safe, Milners Safe Co. Ltd.; fireproofing, The Automatic Sprinkler Co. Ltd.; iron staircases, Haywards Ltd.; plaster, J. McDonough Ltd.; decorative plaster, G. Jackson & Sons Ltd.; metalwork (metal grills), F. W. Potter & Soar Ltd.; artificial stone cleaning, The London Stone Cleaning & Restoration Co. Ltd.; wallpapers, Cole & Sons; metalwork and barriers, Huttly Bros. Ltd.; central chandelier, special reflector fittings, radiator grills, Jack Schrier; theatre seating, carpets, book rest, G. B. Kalee Ltd.; steel shelves, Luxfer Ltd.; steel cupboards, lifts, service, Express Lift Co. Ltd., (stage) Knight Theatre Equipment Ltd.; vacuum cleaning; The British Vacuum Cleaner; paint bridge, Frank Burkitt Ltd.

Houses at Penyfai and Llangynwyd, near Bridgend, Glam. (Pages 448-449.) Architects: Bronek Katz & R. Vaughan, A.R.I.B.A. Quantity Surveyor: Henry Budgen & Co. General Contractor: Joseph Evans and Helyar Ltd. Sub-contractors: Excavation, foundations, stonework, Joseph, Evans and Helyar Ltd.; dampcourses, British Insulated Callender's Cables Ltd.; bricks, tiles, Tondur Brick Co. Ltd.; stone, local random stone from quarry, special roofings, W. H. Colt Ltd.; glass, Chance Bros. Ltd.; patent flooring, Marley Tile Co. Ltd.; central heating, plumbing, Griffiths & Sons; fire, Candy & Co. Ltd.; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, Holliday Hall Ltd.; sanitary fittings, Associated Clay Industries Ltd.; door and window furniture, A. J. Binns Ltd.; case-ments, joinery, Price Bros. Ltd.; flush doors, Flush Woodwork Ltd.

Correction

In our article on the *House of Commons* on November 16 we omitted to mention that Messrs. Troughton & Young, of Knightsbridge, London, were responsible for the complete electrical installation.

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Photograph of SPA GREEN ESTATE, Finsbury, London E.C.1. External walls lined with LOKAY. Architects, Tecton, Ltd.

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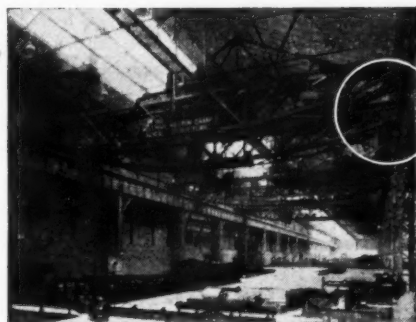
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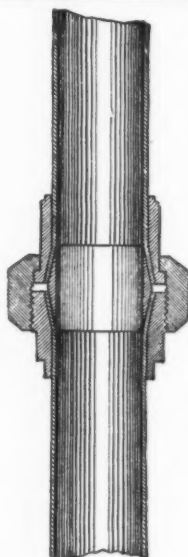
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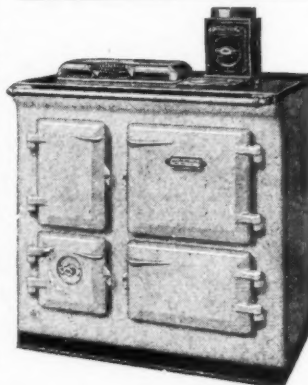
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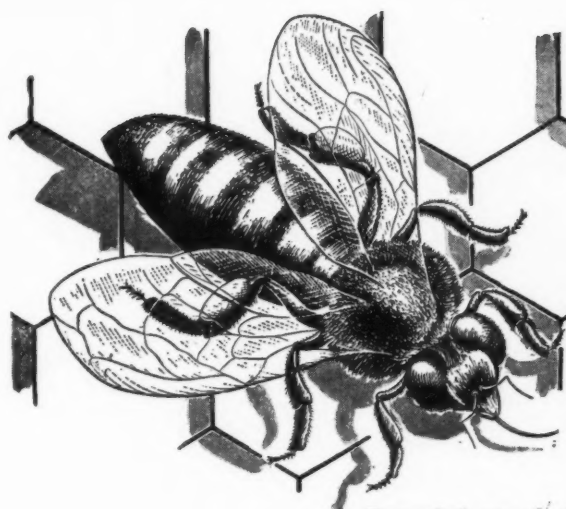


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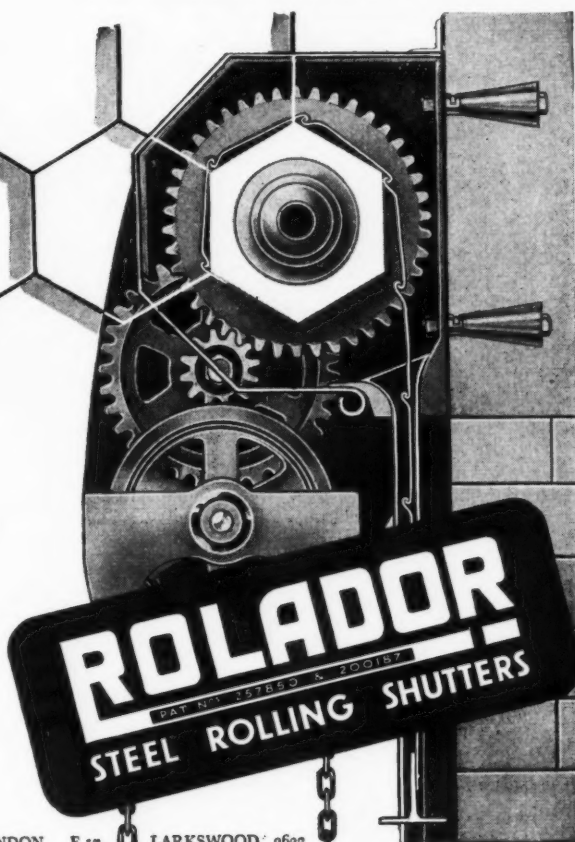
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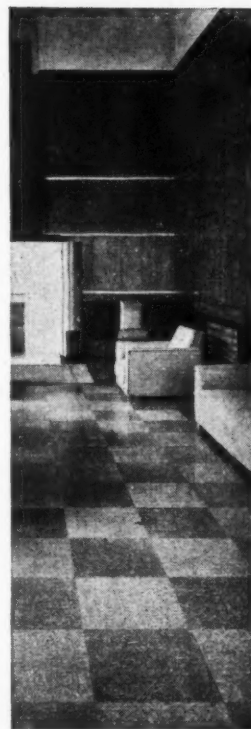
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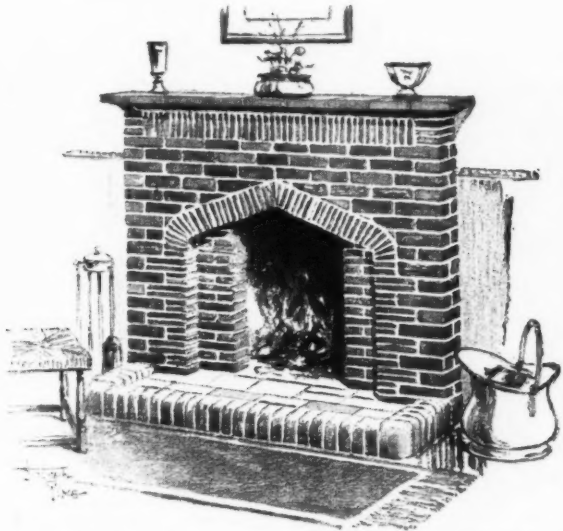
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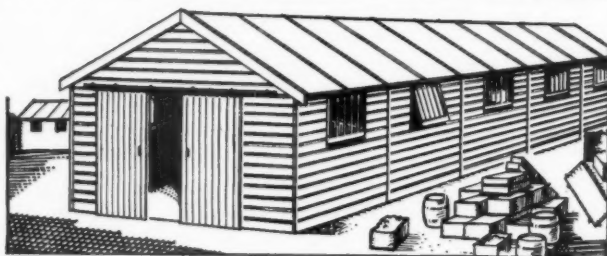
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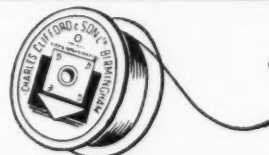
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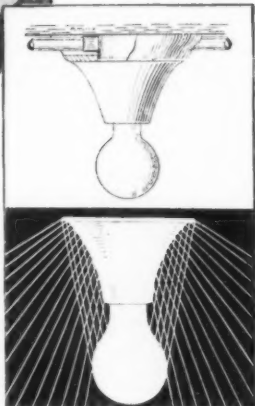
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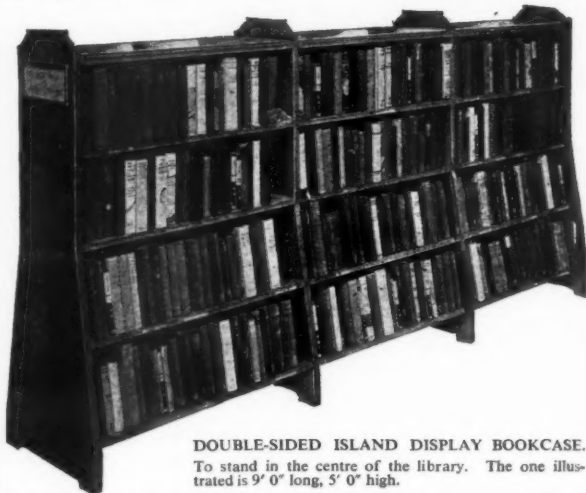
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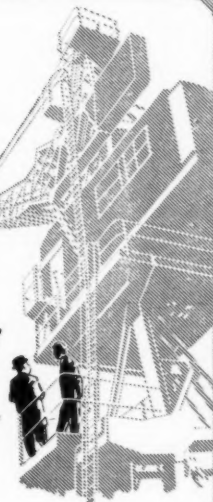
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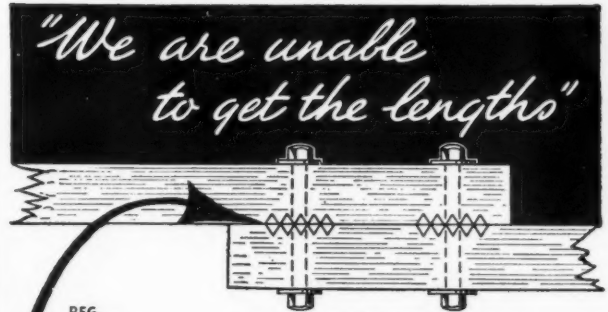
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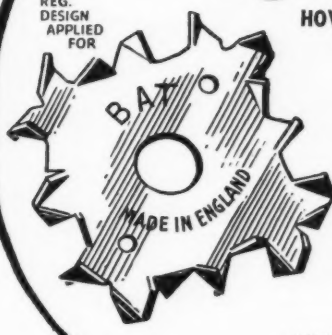
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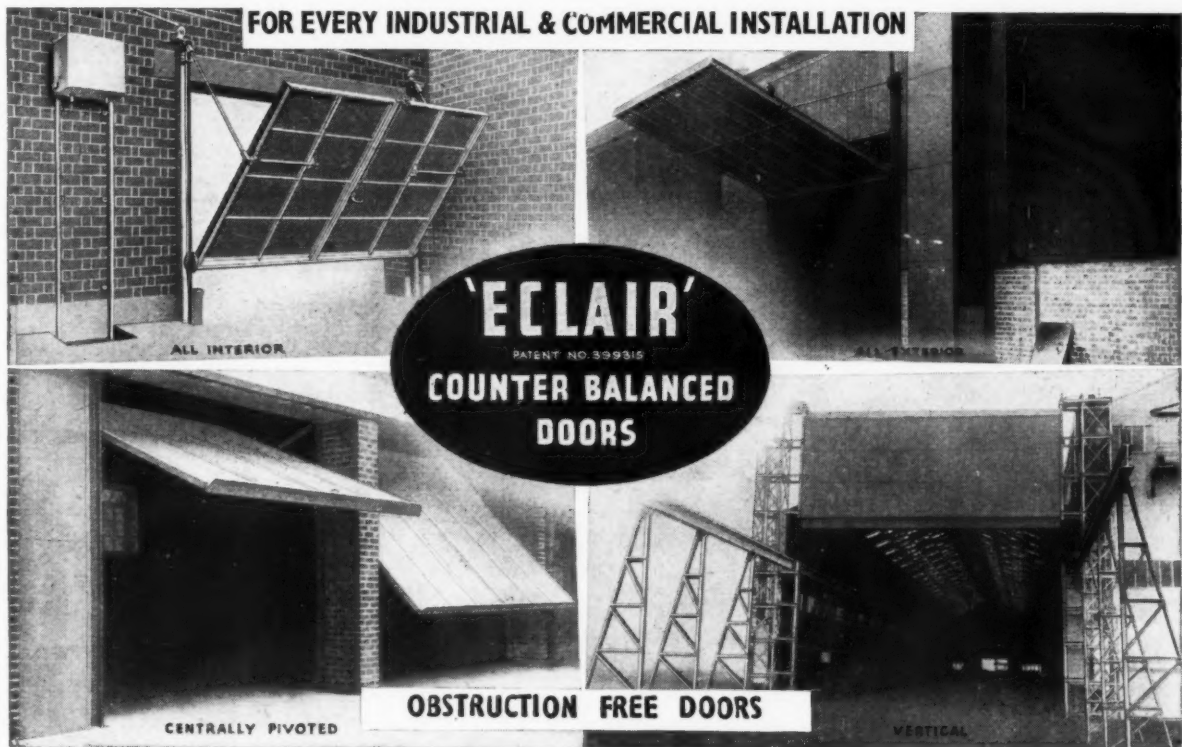
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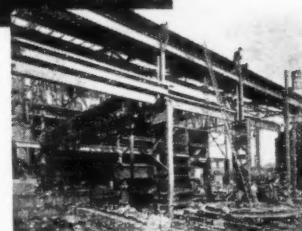
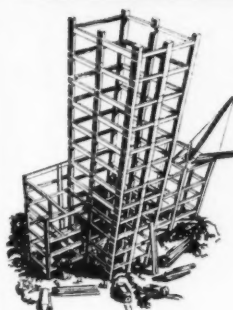
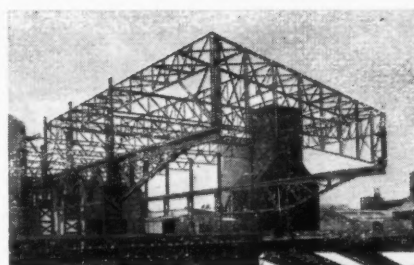
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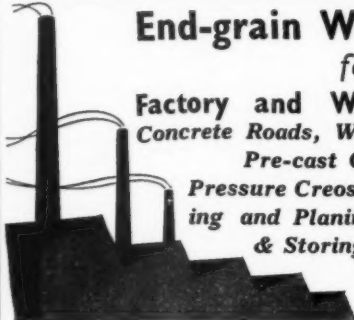
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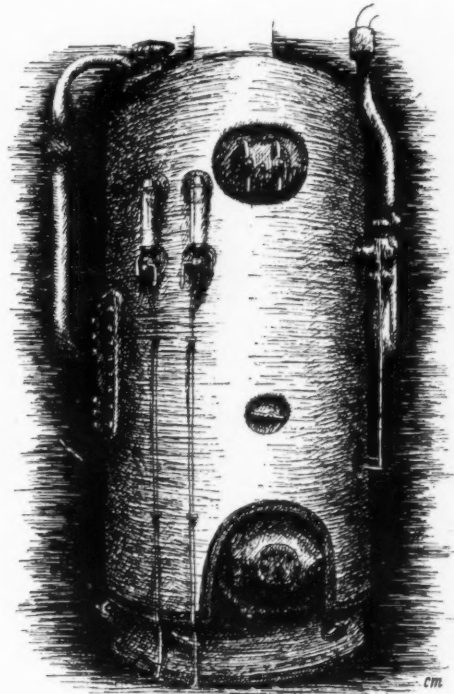
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 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.

Public and Official Announcements

25s. per inch; each additional line, 2s.

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. ADDRESS: EMPLOYMENT REGISTER, WREN PARK, WHYTELEAF. Tel.: Uplands 9335. 991

NORTH THAMES GAS BOARD.

Applications are invited for the following appointment in the Architects' Section of the Chief Engineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £650 per annum.

Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A., should be capable of preparing working and detailed drawings and specifications, and supervising and controlling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

The appointment is of a permanent nature, and pension arrangements will be discussed with short list candidates.

Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thames Gas Board, 30, Kensington Church Street, London, W.8, quoting reference 9757. 4341

LONDON COUNTY COUNCIL.

Applications are invited for positions of ARCHITECTURAL ASSISTANT (salaries up to £580 a year) in the Housing and Valuation Department. Commencing salaries will be determined according to qualifications and experience. Engagement will be subject to the Local Government Superannuation Acts, 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 assist in 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.

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 reference A.A.1). Canvassing disqualifies. (816) 4558

DORKING URBAN DISTRICT COUNCIL. APPOINTMENT OF DRAUGHTSMAN AND GENERAL ASSISTANT (GRADE I).

Applications are invited for the above appointment in the Council's Surveyor's Department.

Candidates must be neat, expeditious draughtsmen, and preference will be given to applicants who have had architectural training.

The National Conditions of Service will apply to the appointment, and also the provisions of the Local Government Superannuation Act, 1937. The selected applicant will be required to pass a medical examination. The appointment will be terminable by one month's notice in writing on either side.

Form of application may be obtained from the undersigned, and must be returned, suitably endorsed, with the names of three referees, not later than Thursday, 14th December, 1950.

Canvassing in any form will be a disqualification, and candidates must disclose in writing whether to their knowledge they are related to any member or to any senior officer of the Council.

H. D. JEFFRIES, Clerk of the Council.

Pippbrook, Dorking. 16th November, 1950. 1278

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment on the permanent staff in accordance with the National Scale of Salaries:—

ONE JUNIOR QUANTITY SURVEYOR.

Grade III, IV, and V. Salary £450-£570. Applicants should be fully experienced in working up final accounts, the taking of of minor works, and must have passed the Intermediate Examination of the R.I.C.S.

The appointment will be subject to one month's notice in writing on either side, and to the terms of the National Joint Council's Scheme of Conditions of Service, and the provisions of the Local Government Superannuation Act, 1937, and the successful applicant will be required to pass a medical examination.

Form of application may be obtained from Thos. W. East, F.R.I.B.A., Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with a copy of one testimonial and the names of two persons to whom reference may be made, to arrive not later than Monday, 11th December, 1950.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS, Town Clerk.

1303

NEW ZEALAND. SURVEYORS AND SURVEYOR'S ASSISTANTS FOR LANDS AND SURVEY DEPARTMENT.

(1) SURVEYORS.

Applications are invited from Surveyors who are Professional Associates of the R.I.C.S. (Land Survey) for appointment as Surveyors, Professional Division, Land and Survey Department, New Zealand.

Salary on appointment up to £760 (N.Z.) per annum, dependent on previous experience.

Appointees will be engaged on triangulation, precise level, topographic mapping and development surveys. Employment on Land Title Surveys in New Zealand will depend on experience in New Zealand on Land Title Surveys and registration by the New Zealand Survey Board. Appointees may be given the opportunity to complete examination for registration in New Zealand.

(2) SURVEY ASSISTANTS.

Applications are also invited for appointment as Survey Assistants, Lands and Survey Department, New Zealand. Salary on appointment up to £665 (N.Z.) per annum, dependent on previous experience.

Applicants must have had a reasonable training in surveying, and it would be an advantage if a pass had been obtained in the Intermediate Examination (Land Survey) of the R.I.C.S.

Appointees who are probationer members of the R.I.C.S. may be given the opportunity to complete the examination for registration in New Zealand.

All of these salaries carry an additional interim wage increase of £18 5s. (N.Z.) per annum.

Full details of conditions of contract, transportation and accommodation allowances, also application forms, are available on request from:

THE HIGH COMMISSIONER FOR NEW ZEALAND.

415, Strand, London, W.C.2, with whom completed applications, in duplicate, should be lodged not later than 10th December, 1950. Consideration will, however, be given to late applications received before the 10th January, 1951. 1279

CITY OF NOTTINGHAM. HOUSING ARCHITECT'S DEPARTMENT.

ASSISTANT ARCHITECT.

Applications are invited from Registered Architects for the appointment of Assistant Architect, in A.P.T. Division, Grade V (£520-£570).

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

The successful candidate will be required to pass a medical examination.

Applications, giving details of age, training, qualifications, experience and present appointment, together with the names and addresses of two persons to whom reference can be made, should be forwarded to C. A. Pilkington, L.R.I.B.A., City Housing Architect, The Guildhall, Nottingham, not later than Monday, 11th December, 1950.

J. E. RICHARDS, Town Clerk.

1265

The Guildhall, Nottingham.

LEEDS REGIONAL HOSPITAL BOARD.

invites applications for the post of SENIOR LAND SURVEYOR on the Headquarters Staff of the Board. Salary in accordance with Grades VII-VIII, £635-£760 per annum. Candidates should be experienced in preparing measured drawings of existing work, surveying and levelling sites for new work, the acquisition of sites, and with a good experience of the law relating to land and property.

Preference will be given to persons who are Members of the R.I.C.S., Building Section, or who have similar qualifications.

The appointment will be subject to the National Health Service (Superannuation) Regulations, 1950, to such terms and conditions of service as may be laid down from time to time, and the successful candidate, if not already in the National Health Service, will be required to pass a medical examination. The appointment will be terminable by one calendar month's notice on either side.

Applications, stating age, qualifications, experience and present salary, together with the names of two referees, should be forwarded to the Secretary, 29/31, Eastgate, Leeds, 2, by not later than Saturday, 16th December, 1950.

Canvassing in any form, either directly or indirectly, will disqualify. 1290

NATIONAL COAL BOARD invites applications from young Architects with contemporary outlook for appointments in the Architect's Department of the Durham and Northern (N. & C.) Divisions situated at Ashfield Tower, Gosforth, Newcastle-on-Tyne. The appointments are in two categories:—

(a) Commencing salary up to £600 p.a. for ASSOCIATES R.I.B.A., with experience in good offices.

(b) Commencing salary up to £400 p.a. for JUNIOR ARCHITECTS of R.I.B.A., Intermediate Examination standard, with some office experience.

Applications, giving full details of age, experience, qualifications, etc., to be addressed within ten days of the date of this advertisement, to:—

DIVISIONAL ARCHITECT,

National Coal Board, Ashfield Tower, Kenton Road, Gosforth, Newcastle-on-Tyne, 3. 1304

lxxxviii

CITY OF ROCHESTER.

SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the City Surveyor's Department at a salary in accordance with Grade V (Administrative, Professional and Technical Division), of the National Scale of Salaries, viz., £500 per annum, rising by two annual increments of £15 and one of £20 to £570 per annum. Candidates must be Registered Architects, and preference will be given to Associates of the Royal Institute of British Architects. A good general experience is required, particularly in the preparation of drawings and specifications for Municipal Housing Schemes. A knowledge of quantities would be an advantage.

In an appropriate case the City Council will provide the successful applicant with suitable housing accommodation.

The appointment will be subject to:—

(1) The scheme of conditions of service of the National Joint Council for Local Authorities', Administrative, Professional, Technical and Clerical Services.

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

(3) One month's notice on either side.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to Lt.-Col. W. Law, M.I.C.E., City Surveyor, 56, Maidstone Road, Rochester, not later than 11th December, 1950.

Canvassing, directly or indirectly, will be deemed a disqualification, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

JOHN L. PERCIVAL, Town Clerk.

Guildhall, Rochester. 22nd November, 1950. 1323

AMENDED ADVERTISEMENT.

HOLLAND COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR, on the permanent staff in Grade VIII, at a salary of £685-£760 per annum, together with car allowance in accordance with the Council's scale.

Preference will be given to Members of the Royal Institution of Chartered Surveyors who have qualified in the Quantities Section.

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

Applications, stating age, particulars of training, qualifications, experience, present and past appointments, together with copies of recent testimonials, should be addressed to the County Architect, County Hall, Boston, Lincs., and be delivered not later than 15th December, 1950.

H. C. MARRIS, O.B.E., Clerk to the County Council.

County Hall, Boston, Lincs. 22nd November, 1950. 1322

BOROUGH OF SLOUGH.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

(a) CHIEF CLERK, on Grade A.P.T., IV/V, of the National Scales, at a commencing salary of £480 p.a., rising on satisfactory service by six annual increments in accordance with Grades A.P.T., IV and V, to a maximum of £570 p.a. Candidates should be experienced in the control of clerical staff, and in the organisation and work of the clerical section of a Municipal Engineer's department.

(b) ASSISTANT ARCHITECT, on Grade A.P.T., III, of the National Scales, at a commencing salary of £450 p.a., rising on satisfactory service by annual increments of £15 to a maximum of £495 p.a. Candidates should have passed the R.I.B.A. Intermediate Examination or its equivalent, and must give details of experience in Housing, Municipal Building Design and General Building Construction.

(c) JUNIOR CLERK, at a salary in accordance with the General Division of the National Scales (male £135 at 16 years to £385 at 32 years; female, £108 at 16 years to £308 at 32 years, according to age). Candidates should have experience with wages and/or accounts.

The appointments will be subject to (1) the Provisions of the Local Government Superannuation Act, 1937, (2) the National Scheme of Conditions of Service, (3) the satisfactory passing of a medical examination, and (4) termination by one month's notice on either side.

Applicants must state the appointment for which they are applying, and furnish details of age, marital state, qualifications, present and previous appointments, training and experience, whether related to any member or senior officer of the Council, and give the names and addresses of two persons to whom reference can be made in regard to ability and character.

If the application is typewritten, candidates should submit a covering letter in their own handwriting.

The Council is unable to assist the successful candidates with housing accommodation.

Applications in sealed envelopes, with the appropriate endorsement must reach the undersigned not later than noon on Monday, 11th December, 1950.

Canvassing, either directly or indirectly, will disqualify.

NORMAN T. BERRY, Town Clerk.

Town Hall, Slough. 24th November, 1950. 1324

CITY OF LEEDS.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) CHIEF ASSISTANT ARCHITECT (HEALTH). Salary scale, £750-£900. Candidates must be Registered Architects, competent in architectural design and administration, have had actual experience in the carrying out of architectural works and be familiar with statutory modern building requirements and regulations in connection with Public Health. The successful candidate will be in charge of a sub-section of the department.

(b) ASSISTANT ARCHITECT. Salary scale, £595-£710.

(c) ASSISTANT ARCHITECTS. Salary scale, £595-£660.

(d) ASSISTANT ARCHITECTS. Salary scale, £520-£660.

(e) ASSISTANT ARCHITECT. Salary scale, £520-£570.

Candidates must be Registered Architects and should have had a thorough training and experience in architectural design and construction.

(f) ARCHITECTURAL ASSISTANTS. Salary scale, £480-£525.

(g) ARCHITECTURAL ASSISTANTS. Salary scale, £450-£525.

(h) ARCHITECTURAL ASSISTANTS. Salary scale, £450-£495.

(i) ARCHITECTURAL ASSISTANTS. Salary scale, £420-£465.

(j) CLERK OF WORKS. Salary scale, £420-£465.

(k) CLERK OF WORKS. Salary scale, £390-£435.

(l) JUNIOR CLERK OF WORKS. Salary scale, max. £385.

Candidates should have had experience in the construction of large schools and school buildings, public buildings, etc., and be fully conversant with all trades.

In each case the payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of 6 months' service, except in the case of (i) where birthday increments will be payable.

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

Applications on forms to be obtained from the City Architect, Priestley House, Quarry Hill, Leeds, 9, to whom they should be returned together with copies of three recent testimonials by 10 a.m. on Monday, 11th December, 1950.

Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, A.R.I.B.A., City Architect.

Priestley House, Leeds, 9. 1309

21st November, 1950.

Council.

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COUNTY BOROUGH OF WEST HAM.

Applications are invited for following on permanent establishment Borough Architect and Planning Officer's Department in connection with Reconstruction Programme of the Borough.

Department undergoing considerable expansion with view to early completion of Development Plan, layout of new neighbourhoods and large scale works comprising Housing, Education, and Public Buildings. Work to be done covers widest possible range in badly blitzed area and calls for imagination and enthusiasm.

ARCHITECTURE:

SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VIII (£685×£225-£760).

SENIOR ASSISTANT ARCHITECT. A.P.T., Grade VII (£635×£225-£710).

THREE ASSISTANT ARCHITECTS. A.P.T., Grade VI (£595×£20×£20×£25-£660).

ASSISTANT ARCHITECT. A.P.T., Grade V/VA (£520×£15×£15×£20-£570) (£550×£20-£610).

Applicants should be A.R.I.B.A., having considerable experience in large Housing and Education works and Public Buildings, and in case of Senior Architects should be capable of taking complete charge of Contracts.

PLANNING:

SENIOR ASSISTANT-PLANNING. A.P.T., Grade VIII (£685×£225-£760).

SENIOR ASSISTANT-PLANNING. A.P.T., Grade VII (£635×£225-£710).

TWO ASSISTANTS-PLANNING. A.P.T., Grade VI (£595×£20×£20×£25-£660).

Applicants for the above posts should be A.R.I.B.A. Senior Assistants should also be A.M.T.P.I. and experienced in the planning work entailed in the reconstruction of war damaged and obsolete area; Assistants should hold planning qualification and be experienced in work on Development Plans and detailed layouts for Areas of Comprehensive Development.

GENERAL ASSISTANTS-TECHNICAL (Architecture and Planning). General Division Scale, £135 (age 16), £220 (age 21), £385 (age 32).

Applicants should be probationers of the R.I.B.A. Previous experience in architect's office desirable but not essential. Position regarding Military Service must be stated.

TWO CLERKS OF WORKS. A.P.T., Grade VA (£550×£20-£610).

Applicants should have been responsible for and have had considerable experience in large contracts, including schools and flats.

N.B.—London allowance in addition to salary scales, viz.:

16-20 years, £10 per annum.

21-25 years, £20 per annum.

26 years and over, £30 per annum.

Applications are also invited for the following TEMPORARY APPOINTMENT:—

CLERK OF WORKS. A.P.T., Grade IV/VA (£480×£15-£525), (£520×£15×£15×£20-£570), (£550×£20-£610).

Applicants should have had considerable experience in large contracts, and preferably on the erection of houses and flats. Salary in accordance with experience.

The office is situated within 20 mins. on the Tube from Central London.

Application forms (returnable by 19th December, 1950) may be obtained from the Borough Architect and Planning Officer, Thomas E. North, F.R.I.B.A., 70, West Ham Lane, Stratford, E.15.

G. E. SMITH, Town Clerk.

West Ham Town Hall, Stratford, E.15. 1314

DEPARTMENT OF HEALTH FOR SCOTLAND invite applications from fully qualified Architects for a post of TEMPORARY ASSISTANT ARCHITECT. Work includes collaboration with local authorities in preparing schemes for housing development, examining space and equipment standards of schemes submitted and promoting experimental designs for houses and flats. Previous experience of housing work desirable but not essential. Headquarters Edinburgh. Salary range £462-£735 (women £635). Form of application obtainable from Establishment Officer, Department of Health for Scotland (Room 30), St. Andrew's House, Edinburgh, 1, must be returned by 16th December. 1315

NORTHERN IRELAND HOUSING TRUST.

Applications are invited for the following posts:—

ASSISTANT ARCHITECTS, who must be registered Architects or Corporate Members of the R.I.B.A. Salary scale £500×£25-£750 per annum.

ASSISTANT QUANTITY SURVEYORS, who must be Associates of the R.I.C.S. Salary scale £500×£25-£750 per annum.

The point of entry on the scale will be determined by qualifications and experience.

The persons appointed will be required to participate in a contributory Superannuation Scheme which allows for reciprocal transfer of benefits to Local Government Superannuation Schemes in suitable cases.

Assistance in obtaining housing accommodation may be given to suitable married applicants.

Preference will be given to ex-Service candidates.

The Northern Ireland Housing Trust is a statutory body engaged in housing schemes throughout Northern Ireland, and the successful candidates will be based at the Trust's Headquarters in Belfast.

Forms of application, which should be returned not later than 18th December, 1950, may be obtained from the General Manager, Northern Ireland Housing Trust, 12, Hope Street, Belfast. 1316

BARNET URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANTS.

Applications are invited for the undermentioned posts in the Engineer and Surveyor's Department:—

(1) A SENIOR ARCHITECTURAL ASSISTANT (Housing). A.P.T., Grade VII. Candidates should have the A.R.I.B.A. or equivalent qualification.

(2) AN ARCHITECTURAL ASSISTANT (Housing). A.P.T., Grade IV.

If necessary, housing accommodation will be offered.

The appointments will be subject to: (a) the provisions of the Local Government Superannuation Act, 1937; (b) the National Scheme of Conditions of Service; (c) satisfactory passing of a medical examination.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be addressed to the undersigned, in envelopes endorsed "Architectural Assistant, Grade" to be received not later than Saturday, 16th December, 1950.

Candidates must, when making application, disclose in writing whether they are related to any member or senior officer of the Council, and canvassing, directly or indirectly, will disqualify.

ALFRED S. MAYES, Clerk of the Council.

Old Court House, Wood Street, Barnet, Herts. 1336

22nd November, 1950.

MONMOUTHSHIRE COUNTY COUNCIL.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS AND QUANTITY SURVEYOR.

Applications are invited for the following posts in the County Architect's Department:—

TWO PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade VII (i.e., £535, rising by annual increments of £25 to £710 per annum).

TWO PERMANENT ARCHITECTURAL ASSISTANTS, at a salary in accordance with Grade VI (i.e., £595 per annum, rising by two annual increments of £20 and one of £25 to £660 per annum).

ONE PERMANENT ASSISTANT QUANTITY SURVEYOR, at a salary in accordance with Grade V (i.e., £520 per annum, rising by two annual increments of £15 and one of £20 to £570 per annum).

The above posts are in accordance with the Administrative, Professional and Technical and other Divisions of the National Joint Council's Scales.

Consideration will be given to the application of a temporary lodging allowance to the selected candidates who are maintaining a home elsewhere pending their obtaining suitable accommodation.

Forms of application, particulars of posts, and conditions of service can be obtained from the undersigned.

Applications, together with copies of three recent testimonials, must be forwarded to Mr. Colin L. Jones, F.R.I.B.A., County Architect, Queen's Hill, Newport, Mon., not later than Saturday, 16th December, 1950.

Canvassing in any form will be a disqualification.

VERNON LAWRENCE, Clerk of the Council.

County Hall, Newport, Mon. 1337

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following Permanent Staff Appointments:—

SENIOR ASSISTANT ARCHITECTS.

(a) Grade VII (£635×£25-£710 per annum).

(b) Grade V (£520×£15-£570 per annum).

Applicants should be Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and have good general experience in design and construction.

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

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.

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 by Monday, 11th December, 1950.

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

Eagle House, Colston Avenue, Bristol, 1. 1338

METROPOLITAN BOROUGH OF SHOREDITCH.

SENIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment on the permanent staff of the Council.

Applicants should have had a general architectural experience and must have had experience in the design and construction of houses and flats. Also preference will be given to applicants holding a recognised architectural qualification.

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

Applications, giving age, details of qualifications and experience and salary required, together with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Tuesday, 5th December, and endorsed "Senior Assistant Architect."

C. A. JAMES, Town Clerk.

Town Hall, Old Street, E.C.1. 1306

15th November, 1950.

THE CORPORATION OF GLASGOW.
APPOINTMENT OF CITY ARCHITECT.
The Corporation invite applications from Fellows or Associates of the Royal Institute of British Architects, not over 45 years of age, for appointment to the position of City Architect of the City of Glasgow.

The person appointed will also be the Planning Officer for the City, and applicants are required to state the nature of their planning experience and qualifications.

The duties of the office will include control of all the architectural work of the Corporation; the preparation of the Development Plan for the City; the preparation of revised plans for development and redevelopment areas; the day to day administration of the provisions of the Town and Country Planning (Scotland) Act, 1947, and such other duties as the Corporation may at their discretion assign in respect of architecture and planning.

The successful candidate will require to join the Corporation Superannuation Scheme and to pass a medical examination by a medical officer appointed by the Corporation. The appointment will be held during the pleasure of the Corporation, and the salary offered is at the rate of £2,000, rising by annual increments of £100 to £2,500 per annum.

Applications, stating age, previous experience and qualifications, together with copies of three recent testimonials, must be lodged with the subscriber on or before 18th December, 1950, in an envelope marked on the outside "City Architect."

WILLIAM KERR,
Town Clerk.

City Chambers, Glasgow. 1321
21st November, 1950.

LONDON TRANSPORT EXECUTIVE.

Applications are invited for vacancies on the temporary staff of the Architect's office as set out below:—

The commencing salary within the ranges indicated will be determined according to age, qualifications and experience.

The appointments are subject to a medical examination.

Canvassing, either directly or indirectly, will disqualify.

ASSISTANT ARCHITECTS (Ref. F/EV.151).

Applicants must be Chartered or Registered Architects of a good standard of architectural training and experience, and be capable of preparing schemes and working drawings with minimum supervision.

Salary range £600-£700 per annum.
ARCHITECTURAL ASSISTANTS (Ref. F/EV.152).

Applicants must have a good background of architectural training with office experience, and be capable of preparing schemes and working drawings under supervision of an Assistant Architect.

Salary range £500-£560 per annum.

Applications giving full details of age, professional and other qualifications and experience, and quoting the appropriate reference number, should be sent within 14 days of the appearance of this advertisement to the Staff Officer, London Transport Executive, 55, Broadway, S.W.1.

For acknowledgement enclose addressed envelope.
16th November, 1950. 1329

CITY OF LEEDS EDUCATION COMMITTEE.

COLLEGE OF ART.
Principal: E. E. PULLER, A.R.C.A., F.S.A.E.,
THE LEEDS SCHOOL OF ARCHITECTURE.
Head of School: W. A. EDEN, M.A., F.S.A.,
F.R.I.B.A.

Applications are invited for a post as LECTURER AND TUTOR in the Leeds School of Architecture. Applicants should hold a recognised Degree or Diploma in Architecture and should have some practical experience. Special qualifications in Reinforced Concrete Design and Construction would be an advantage.

Salary will be in accordance with the Burnham Scale for Assistants in Colleges of Art, with allowances for training and Degree, together with increments for war service and practical or teaching experience.

Further particulars and forms of application, to be returned within a fortnight of the appearance of this advertisement, may be obtained by sending a stamped addressed foolscap envelope to the undersigned.

GEORGE TAYLOR,
Chief Education Officer.
Education Department, Leeds, L. 1292

THE COUNTY COUNCIL OF CLACKMANNAN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a JUNIOR ARCHITECTURAL DRAUGHTSMAN. The salary will be Grade I of the A.P.T. Division of the J.I.C. Scale, viz., £390 per annum, rising to £435 per annum. Candidates should have good general office experience and be neat and expeditious draughtsmen.

The post is superannuated, and the candidate selected will require to pass a medical examination prior to appointment.

Applications, stating age, qualifications and experience, with copies of three recent testimonials, should be submitted to the undersigned within ten days of publication of this advertisement.

N. A. SCORGIE,
County Clerk.

County Buildings, Alloa. 1291
16th November, 1950.

WEST SUSSEX COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of an ASSISTANT ARCHITECT at a salary in accordance with Grade III, A.P.T. Division (£450 to £495 per annum) of the consolidated national scales.

Further particulars should be obtained immediately from the County Architect, County Hall, Chichester, to whom detailed applications must be submitted not later than 13th December, 1950.

T. C. HAYWARD,
Clerk of the County Council.
County Hall, Chichester. 1370
21st November, 1950.

DERBYSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the undermentioned appointment on the permanent staff.

Conditions of service and salary are in accordance with the National Joint Council Scheme for Local Authorities, as adopted by the County Council.

SENIOR ARCHITECT (New Schools Section).
Grade IX, £750-£900 per annum.

Applicants must be fully qualified Architects by examination, with a contemporary outlook and have a wide practical experience of modern methods of construction and materials.

The duties will be to investigate and review methods of construction and the application of materials and building techniques.

The successful applicant will be later in charge of a development group which will carry out prototype works and afterwards will prepare all standard details and drawings.

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

Canvassing members of the Council, directly or indirectly, will be a disqualification for appointment.

The County Council is not in a position to assist the successful applicant with housing accommodation.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies of three recent testimonials, not later than 9th December, 1950.

F. HAMER CROSSLEY, Dipl.Arch.(L'pool),
F.R.I.B.A.,
County Architect.

St. Mary's Gate, Derby. 1302
24th November, 1950.

CITY OF SALFORD.

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS on the permanent staff of the City Engineer and Surveyor's Department. Salary Grades A.P.T., IV (£480-£525) and A.P.T., V (£520-£570).

Candidates for the appointment in Grade V should hold an approved Architectural qualification and for Grade IV should have passed the Intermediate Examination of the R.I.B.A. and have had at least two years' experience in an Architectural office.

The appointments will be subject to:—
(a) The provisions of the Local Government Superannuation Act, 1937;

(b) the passing of a medical examination;

(c) 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, Town Hall, Salford 3, Lancs., so as to be received not later than 15th December, 1950.

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. 1301

METROPOLITAN BOROUGH OF CAMBERWELL.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECTS.

Applications are invited for the above appointments in Grades A.P.T., V/VI, of the National Scale of Salaries, at a commencing salary of £550 per annum, rising to £690 per annum, inclusive of £30 London weighting.

Applicants should be Registered Architects and have had considerable experience in the design and practical execution of building works.

The appointments are subject to the National Scheme of Conditions of Service, to the provisions of the Camberwell and Other Metropolitan Borough Councils' (Superannuation) Act, 1908, as amended, and to the passing of a medical examination by the Council's Medical Officer of Health.

Housing accommodation cannot be provided by the Council.

Applications from staff in the service of other Local Authorities will not be considered unless they have been in the service of their present employers for a period of not less than two years.

Applications on forms to be obtained from the undersigned must be returned not later than Thursday, 28th December, 1950.

DARRELL MUSKER,
Town Clerk. 1300

Town Hall, Camberwell, S.E.5.

NATIONAL COAL BOARD—EAST MIDLANDS DIVISION.

ARCHITECTS' DEPARTMENT.

Applications are invited for the following permanent and superannuated appointments:—
(a) ARCHITECT, Grade I. Salary £700-£825-£875 per annum.

(b) ARCHITECTS, Grade II. Salary £450-£525-£700 per annum.

The point of entry into the relevant salary scales will depend on the qualifications and experience of the successful applicants, and subject to satisfactory service, opportunities will be available for promotion to higher grades.

The architectural work of the Department covers all new projects in the Division, which embraces five counties. The work is of considerable variety and interest and includes the design of industrial buildings of all types concerned in the planning of collieries, such as workshops, power plants, offices, stores, pithead baths, canteens, medical centres, recreation buildings, convalescent homes, etc.

Part-time studying facilities are given to assistants in the Department to avail themselves of the advantages of the Nottingham School of Architecture.

Applications, stating age, education, qualifications, experience, present appointment and salary, should be submitted within 14 days of publication of this advertisement to:—

THE SECRETARY,
National Coal Board,
East Midlands Division, Sherwood Lodge,
Arnold, near Nottingham.

Envelopes should be marked "S.V.48," and original testimonials should not be sent. 1293

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for positions of ARCHITECT, Grade III (£550-£700) and TECHNICAL ASSISTANT (up to £580) for work on new housing, schools, and other public buildings. The positions are superannuated. Candidates for Grade III positions should possess professional qualifications. Application forms from the Architect (A.R.P./S), The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (384)

BOROUGH OF DAGENHAM.
COST AND ESTIMATING CLERK.
Applications are invited for the above-mentioned post. Salary, Grade II, viz., £420-£465 per annum, plus London weighting (£30 at age 26 and over). The commencing salary will be determined according to qualifications and experience. Applicants must have a good knowledge of building costs and estimating, and experience in the operation of the incentive bonus scheme. Technical qualifications will be an advantage. Application forms, together with further details of the post, are obtainable from the Borough Engineer. Closing date, 9th December, 1950. Canvassing disqualifies. Housing accommodation may be made available.

KEITH LAUDER,
Town Clerk. 1306

Civic Centre, Dagenham.

GLAMORGAN COUNTY COUNCIL.

HIGHWAYS AND PLANNING DEPARTMENT.

Applications are invited for the following permanent appointment, at Headquarters, County Hall, Cardiff.

GENERAL PLANNING ASSISTANT. Grade A.P.T., IV. Salary £480 by £15 to £525 per annum. The appointment is permanent and subject to the National Scheme of Conditions of Service, to the standing conditions of the County Council from time to time in force, and to the provisions of the Local Government Act, 1937. The successful candidate will be required to pass a medical examination.

Applicants should be University Graduates with at least two years' experience in a suitable profession, or have completed professional training with a Chartered Architect, Chartered Engineer, Chartered Surveyor or Planner. They must also have passed the Final Examination of the T.P.I., the I.C.E., the I.Mun.E., or the R.I.C.S. Applicants who have passed the Intermediate Examination only of these bodies will also be considered, but the salary payable will not exceed A.P.T., Grade II (i.e., £450 by £15 to £495 per annum) in such cases.

Applications, stating age, training, qualifications, experience and present salary, and accompanied by one testimonial, should be sent to the County Planning Officer Mr. E. John Powell, M.I.C.E., M.I.Mun.E., at this address, and received not later than Monday, the 11th December, 1950.

A. CLIFFORD WALTER,
Deputy Clerk of the County Council.
Glamorgan County Hall, Cardiff. 1313
20th November, 1950.

CUMBERLAND COUNTY COUNCIL.

PLANNING ASSISTANTS, A.P.T., GRADE VI (£595-£660).

Applications are invited from qualified and suitably experienced candidates for the above permanent appointments in the Department of the County Planning Officer. Further particulars as to duties, car and subsistence allowances, etc., and forms of application, may be obtained on request from the County Planning Officer, Citadel Chambers, Carlisle, to whom completed forms are required to be returned by Saturday, 23rd December, 1950.

G. N. C. SWIFT,
Clerk of the County Council. 1294

BOROUGH OF DAGENHAM.

ARCHITECTURAL ASSISTANTS.
Applications are invited for three posts of Architectural Assistant. Salary, Grade VI, viz., £595 to £660 per annum, plus London weighting (£30 at age 26 and over). Applicants must be Registered Architects and hold a R.I.B.A. or similar qualification. Forms of applications, together with further details of the posts, are obtainable from the Borough Engineer and Surveyor. Closing date, 9th December, 1950. Canvassing disqualifies. Housing accommodation will be available.

KEITH LAUDER.

Town Clerk. 1305
Civic Centre, Dagenham.

LONDON COUNTY COUNCIL.
ARCHITECTS' DEPARTMENT.
PLANNING STAFF.

Applications are invited for positions of PLANNING OFFICER, Grade II (£700-£840), Grade III (£550-£700), and TECHNICAL ASSISTANTS (up to £250). The positions are superannuable. Candidates for Grade II and III positions should have architectural or surveying qualifications, preferably with town planning qualifications in addition. They will be engaged on Information and Research, Development Plan, Reconstruction Areas, Development Control or Detailed Planning. Technical Assistants are required for work on all these aspects.

Particulars and application forms from the Architect, AR/EL/P, The County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifies. (1429) 1192

CAMBORNE-REDRUTH URBAN DISTRICT COUNCIL.

APPOINTMENT OF QUANTITY SURVEYOR.
Applications are invited for the appointment of Quantity Surveyor (Housing), in the Engineer and Surveyor's Department, at a salary in accordance with A.P.T., Grade V, of the National Scale of Salaries (£520-£570 per annum).

Applicants should have had suitable experience in the preparation of bills of quantities, measuring and valuation for interim certificates, and final accounts for work in connection with large housing schemes.

The appointment is subject to:—
(a) The National Scheme of Conditions of Service.

(b) The Local Government Superannuation Act, 1937, and the passing of a medical examination.

(c) One month's notice in writing on either side. The appointment is, however, subject to the omission of the clause in the National Conditions of Service as to payment of subsistence for duties within the urban district.

Applications, endorsed "Quantity Surveyor," stating age, qualifications and experience, together with the names and addresses of two persons to whom reference can be made, should be forwarded to reach the undersigned not later than Thursday, the 14th December, 1950.

Candidates must state whether, to their knowledge, they are related to any member or senior officer of the Council.
Canvassing, directly or indirectly, will be a disqualification.

S. C. WILSON.

Clerk to the Council.

Council Offices, Camborne, Cornwall.
21st November, 1950. 1339

ESSEX EDUCATION COMMITTEE.
SOUTH-WEST ESSEX TECHNICAL COLLEGE AND SCHOOL OF ART, FOREST ROAD, WALTHAMSTOW, E.17.

Full-time STUDIO MASTER AND LECTURER IN ARCHITECTURE, primarily for full-time day and evening courses for Inter. and Final R.I.B.A. Previous teaching experience not essential.

Salary (Burnham Further Report): £300×£15 to £555 (at present), with appropriate allowances for experience (up to 12 increments for Professional or Industrial) and War Service, and additions for degree or equivalent (£30), training (up to £45), London allowance (£36 or £48), and additional allowance of up to £100 per annum.

Applications (no forms), with full particulars of training qualifications and experience, to Clerk to Governors at College within two weeks.

B. E. LAWRENCE

Chief Education Officer. 1340

Tenders for Contracts

6 lines or under, 12s. 6d.; each additional line, 2s.

COUNTY OF LINCOLN—PARTS OF LINDSEY.

POLICE BUILDINGS AND COURTS.

TOWN HALL SQUARE, SCUNTHORPE.

CONTRACT NO. 2.—SUPERSTRUCTURE.

Contractors desirous of tendering for the Superstructure of these Buildings, known as Contract No. 2, should submit their names to the Architects, Messrs. C. B. Pearson & Son, F.R.I.B.A., 18, Dalton Square, Lancaster, on or before the 30th November, 1950. The Foundations up to Ground Level, Roads, Sewers and Site Works have been subject to a separate Contract and are now nearing completion.

Specifications, Bills of Quantities and Form of Tender will be sent to Contractors desirous of Tendering, and plans may be seen at the offices of the Architects, the office of the Clerk of Works on the site, or at my offices.

The acceptance of any tender is subject to the approval of the Home Office, and the Council do not bind themselves to accept the lowest or any Tender.

Sealed Tenders, endorsed "Scunthorpe Police Buildings and Courts," must be delivered to me not later than Saturday, the 6th January, 1951.

HERBERT COPLAND,

Clerk of the County Council.

County Offices, Lincoln.
November, 1950. 1223

Sale by Auction

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

BUCKMINSTER HALL.

BUCKMINSTER, Lincs.

Formerly the seat of the late Rt. Hon. the Earl of Dysart.

(9 miles from Grantham; 9 miles from Melton Mowbray; 14 miles from Stamford; 28 miles from Nottingham; 24 miles from Newark; 34 miles from Lincoln, and 104 miles from London, and being 34 miles east of Colsterworth which is

situate on the Great North Road between Grantham and Stamford.)

THE VALUABLE FIXTURES AND FITTINGS throughout the Mansion as in over 100 rooms, including Reception and Dining Rooms, Music Room, Bedrooms, etc.,

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which MESSRS. HENRY BOND & SON, F.A.L.P.A., have received instructions from P. C. H. Johnson, Esq., to sell by Auction
ON WEDNESDAY, 6th DECEMBER, 1950,

and THURSDAY, 7th DECEMBER, 1950.

Sale commencing each day at 11 a.m. Viewing, 7 days prior to sale, from 9 a.m.-3.30 p.m. daily, by Catalogue only.

Floor Plans will be on view in the Main Hall.

Light refreshments will be available.

Catalogues (price 6d.) from the Auctioneers, UPWELL, Wisbech, Cambs. (phone Upwell 2207), and at DOWNHAM MARKET, Norfolk (phone Downham Market 3201). 1225

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

ARCHITECTURAL ASSISTANT required in a progressive Oldham office. Must have good experience in housing and industrial work and be able to prepare specifications and estimates. Write, stating age, experience, qualifications, and salary required, to Box 1273.

REQUIRED immediately ARCHITECT'S ASSISTANT, for General Private Practice. Minimum standard, Intermediate R.I.B.A. Applicants are requested to apply in writing, stating age, experience, and salary required, to Granville F. Siegerts, 1, Electric Parade, Seven Kings, Ilford, Essex. 1227

TWO ARCHITECTURAL ASSISTANTS, with Industrial and Housing experience, required, of Intermediate standard, in North-West London. Salaries according to age and experience. National Scales are offered to suitable applicants. Apply Sydney Greenwood, A.R.I.B.A., 33, Bunns Lane, N.W.7. 1230

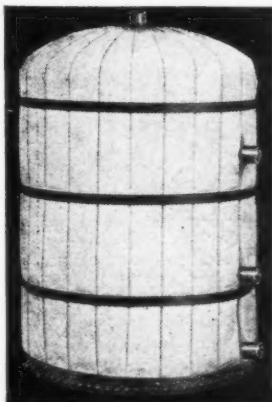
JUNIOR ARCHITECTURAL ASSISTANT required immediately for the Farm Buildings Advisory Service. The vacancy is suitable for a student. Salary £200 per annum. Application in writing should be made within one week to the Secretary, The West of Scotland Agricultural College, 6, Blythwood Square, Glasgow, C.2. 1327

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- Low initial cost

Patent No. 328472.

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SENIOR ARCHITECTURAL ASSISTANTS required. Interesting and varied work. Five-day week. Apply, stating age, experience, and salary required, to Farmer and Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W.1. 1318

SENIOR ARCHITECTURAL ASSISTANT required immediately in busy and varied practice in the Southern Area of Yorkshire. Final R.I.B.A. essential, and some office experience desirable. Salary according to R.I.B.A. scales as a minimum, and to qualifications and experience. Pension scheme in operation. Apply with full particulars, Box 1254.

JUNIOR ARCHITECTURAL ASSISTANT required immediately in busy and varied practice in the Southern Area of Yorkshire. Intermediate R.I.B.A. qualification desirable, and a minimum of two years' office experience. Salary in accordance with R.I.B.A. scales as a minimum and to qualifications and experience. Pension scheme in operation. Apply with full particulars, Box 1255.

APPLICATIONS invited for the position of ASSISTANT ARCHITECT in Preston. Applicants should have passed the Final R.I.B.A. and have considerable experience in working drawings and details. Apply in writing, giving particulars of training, experience, and salary required, to Grenfell Baines & Hargreaves, 12, Guildhall Street, Preston. 1328

SENIOR ARCHITECTURAL ASSISTANT required in London, with at least 5 years' office experience. Reply giving particulars and salary required, to Box 1326.

QUALIFIED ASSISTANTS required for London Architect's Department of Large Commercial Concern. Applicants should be about 35 years old, experienced in good class building, used to writing specifications and handling contracts for new buildings, also maintenance work. Permanency and allowance following retirement offered to suitable men, who should write stating age and full details, to Box 1319.

EXPERIENCED ARCHITECTURAL ASSISTANT required for busy Provincial and Country practice. Good all round practical knowledge essential. Salary £550 upwards, according to ability. F. J. Lenton & Partners, F./A.R.I.B.A., 16, Broad Street, Stamford. 1297

THE CO-OPERATIVE WHOLESALE SOCIETY, LTD. invite applications for the following appointments on the staff of the Manchester Architect's Department:—
ASSISTANT ARCHITECTS. Salary £550-£650 per annum, according to ability. Applicants, who must have had practical office experience, are required to have a sound knowledge of building construction and be able to produce working drawings and details from sketch plans. Experience in the design and planning of modern industrial and commercial buildings will be considered an advantage.

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

Applications, stating age, experience and qualifications, to be addressed to the Chief Architect, Co-operative Wholesale Society, Ltd., 1, Balloon Street, Manchester. 1758

SENIOR ASSISTANT and JUNIOR wanted at once in a varied practice. Reply, with full particulars, to Alley & Mansel, F./R.I.B.A., Staple Inn Buildings, High Holborn, W.C.1. 1296

RONALD WARD & PARTNERS require two **ARCHITECTURAL ASSISTANTS** (Intermediate standard). Apply 17, Lowndes Street, S.W.1. Telephone: Sloane 8291. 1333

JUNIOR ARCHITECTURAL DRAUGHTSMAN, working for Intermediate, required for housing and general practice in London and country. Applicants to apply in writing, stating age, training and experience and salary required, to Unsworth & Bostock, 8, Cromwell Place, S.W.1. 1335

ARCHITECT required for Senior appointment at Company's main office in Hammersmith. Successful applicant will be given time to acquire background knowledge of the non-traditional construction handled by this firm with a view to applicant assisting with the initial design of projects in the U.K. and abroad. Write, giving brief outline of qualifications, to Chief Architect, Geo. Wimpey & Co., Ltd., 27, Hammersmith Grove, W.6. 1341

JUNIOR ARCHITECTURAL ASSISTANT required for Wembley (Middlesex) office. Write, stating age, experience and salary required. Box 1343.

Architectural Appointments Wanted

A.R.I.B.A. (F.), 2½ years' varied experience, wants interesting contemporary work. Low salary if S.W. London, or short hours. Box 38.

ARCHITECTURAL ASSISTANT, Intermediate standard, requires position in progressive London office. Box 36.

SOUTH COAST.—Young A.R.I.B.A. requires a progressive position in a pleasant office on the South Coast. Box 37.

ASSISTANT, A.R.I.B.A., with 3 years' office experience, seeks position in Croydon-Bromley area, or in Central London. Miss B. A. Martin, 10, Spring Park Avenue, Shirley, Surrey. 'Phone (from 1st December) ADD. 2569. 39

STUDENT R.I.B.A., N.Z. University, and 3½ years' office experience N.Z. and G.B., seeking experience in office where contemporary design is normal practice. Keen. Some intelligence and ability. Experience and responsibility more important than amount of salary. Box 40.

ARCHITECTURAL ASSISTANT (26) seeks appointment in small progressive London office. General work preferred. Box 41.

ARCHITECTURAL ASSISTANT, experienced in all work, drawings, etc., requires position in London. Box 42.

ARCHITECTURAL ASSISTANT, with 3 years' experience, at present working with vast and uninspiring organisation, desires a change. Interested in modern architecture, furniture, interior and industrial design. Age 25. Good health and keen to get ahead. Box 1334.

ARCHITECT (30), at present Chief Architectural Assistant with Local Authority at £685 p.a. 12 years' extensive experience of factories, schools, houses, flats, estate development, civic buildings, etc. Used to getting jobs built against difficulties. At present living in Manchester area. Seeks position with scope and good prospects. Reply, with full details of salary offered, if accommodation available, etc., to Box 1342.

Other Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

ARCHITECTURAL METALWORK DETAILING DRAUGHTSMAN wanted; good wages and ideal working conditions. Apply: The Morris Singer Co., Ltd., Ferry Lane, Forest Road, Walthamstow, E.17. 3524

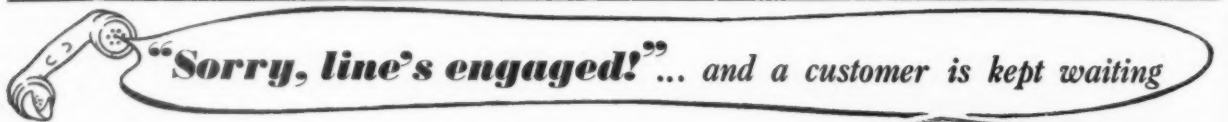
ARCHITECTURAL Metalworkers require a **DESIGNER DRAUGHTSMAN** of considerable merit; top salaried position for skilled man. Apply The Morris Singer Company, Hope House, Gt. Peter Street, Westminster, S.W.1. 3564

REQUIRED.—SENIOR ASSISTANT QUANTITY SURVEYOR, experienced in taking-off and in the settlement of final accounts. Preference will be given to a qualified man. Please give details of age, experience, qualifications and salary required. Husband & Co., Consulting Engineers and Architects, 388, Glossop Road, Sheffield, 10. 1095

ARTICLED PUPIL or JUNIOR required by Quantity Surveyors, no premium. Age 15-18. Good education. Must be keen, accurate at figures. Excellent prospects to learn profession. Reply in writing, stating age, education, etc., George Lewis & Son, 49, Sheepcote Road, Harrow, Middlesex. 1282

CHIEF ARCHITECTURAL DRAUGHTSMAN required, with sound knowledge of industrial building construction. Five-day working week and pension scheme. Staff canteen. Housing accommodation available. Write, stating age, experience and salary required, to Chief Staff Architect, Ilford, Ltd., Romford, Essex. 1231

CHIEF ESTIMATING SURVEYOR OR ENGINEER required by old-established Contractors engaged mainly on factory and riverside work in the London area. Experience necessary in estimating for civil engineering and building work, but management of contracts is not part of the duties. Salary approximately £900, pension fund, car allowance, and assistance given, if necessary, in obtaining living accommodation in Essex. Applicants should write, giving details of age, education, training and experience, to Personnel Manager, Samuel Williams & Sons, Ltd., Dagenham Dock, Essex. 1248



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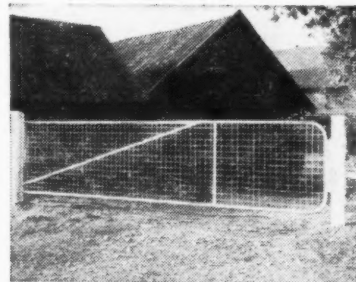
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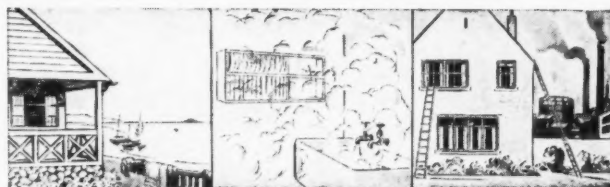
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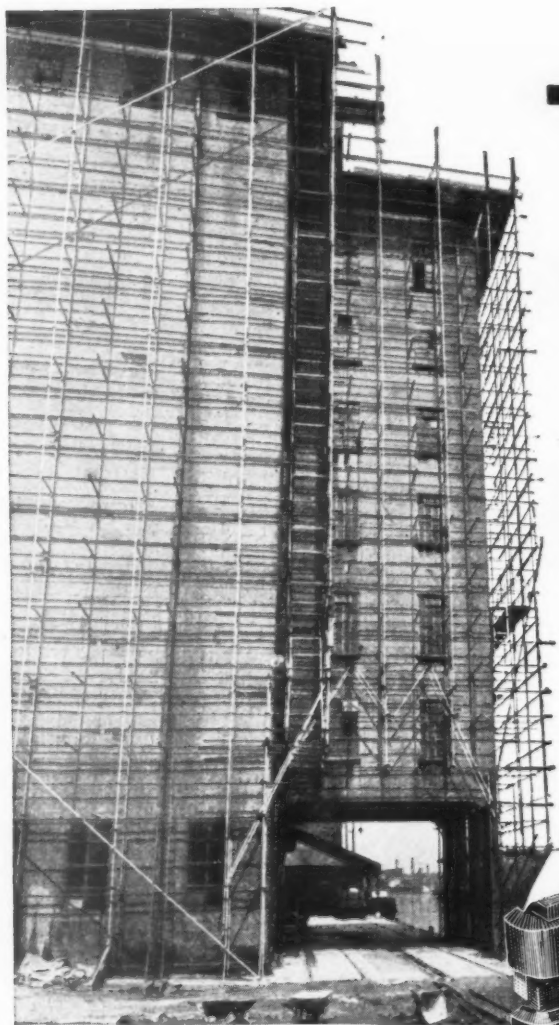
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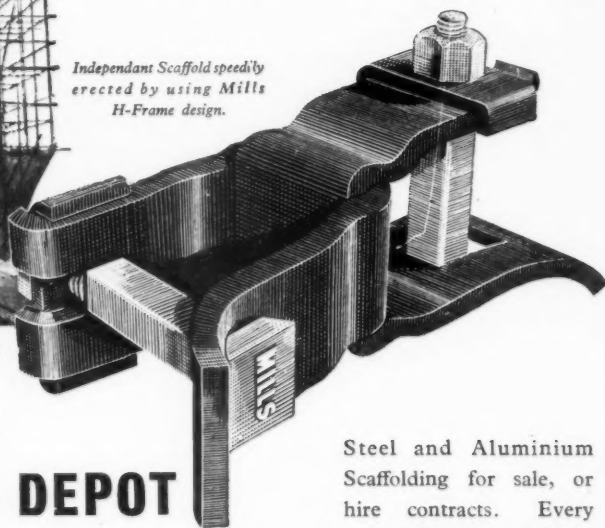


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