

# THE ARCHITECTS' JOURNAL

STACK



## standard contents

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

## NEWS and COMMENT

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	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. 3, 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
AScW	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 4183
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
BRB	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
BTE	Building Trades Exhibition. 4, Vernon Place, W.C.1.	Holborn 8146/7
CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon.	Newport 3111
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A., Salop County Council, 5, Belmont, Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Art and Design. 41, 42, Dover Street, W.1.	Regent 3074
CIAM	Congrès Internationaux d'Architecture Moderne. Dolderhof, 7, Zurich, Switzerland.	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 8161
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 1334
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
FB 1951	Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2.	Waterloo 1951
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
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
ICE	Institution of Civil Engineers. Great George Street, S.W.1.	Whitehall 4577

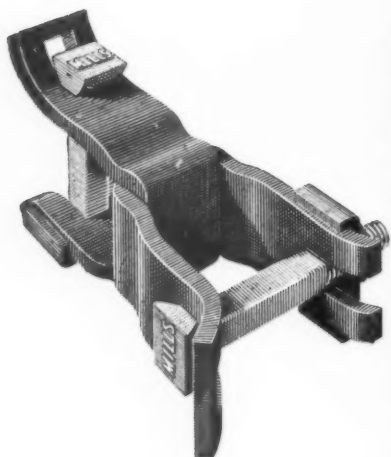
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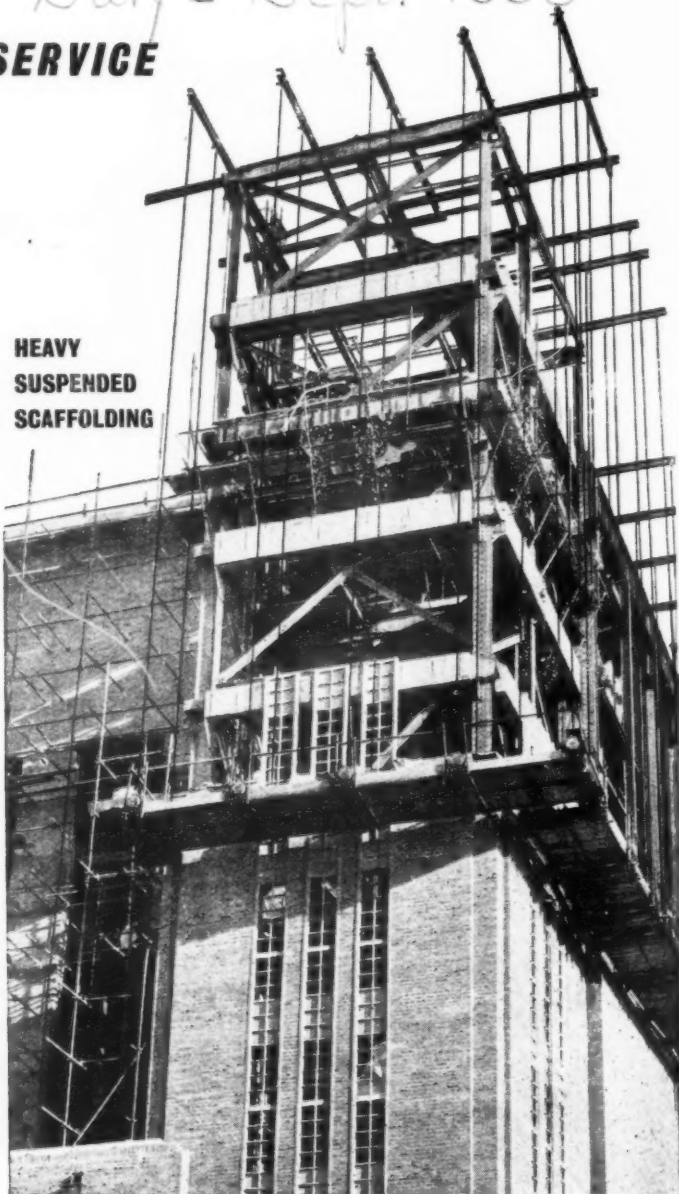
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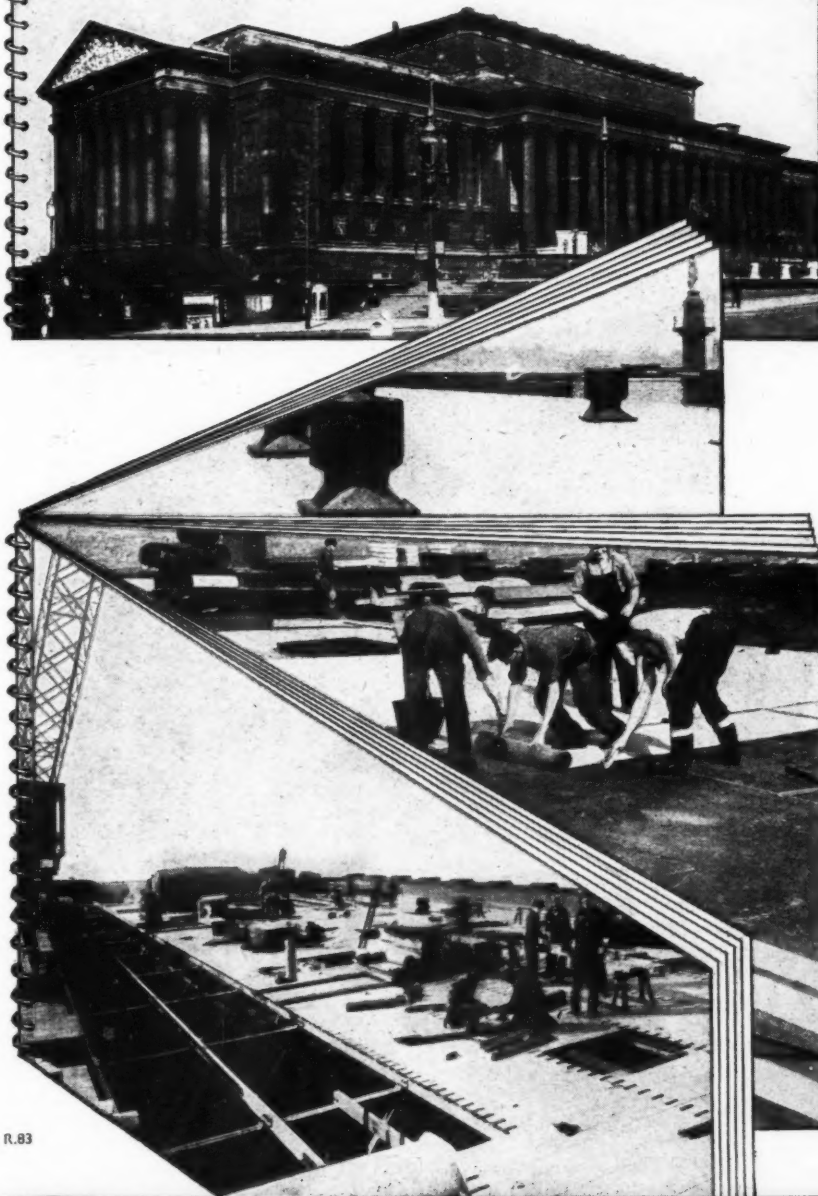
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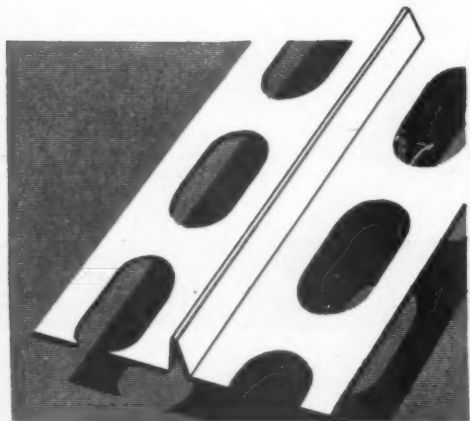
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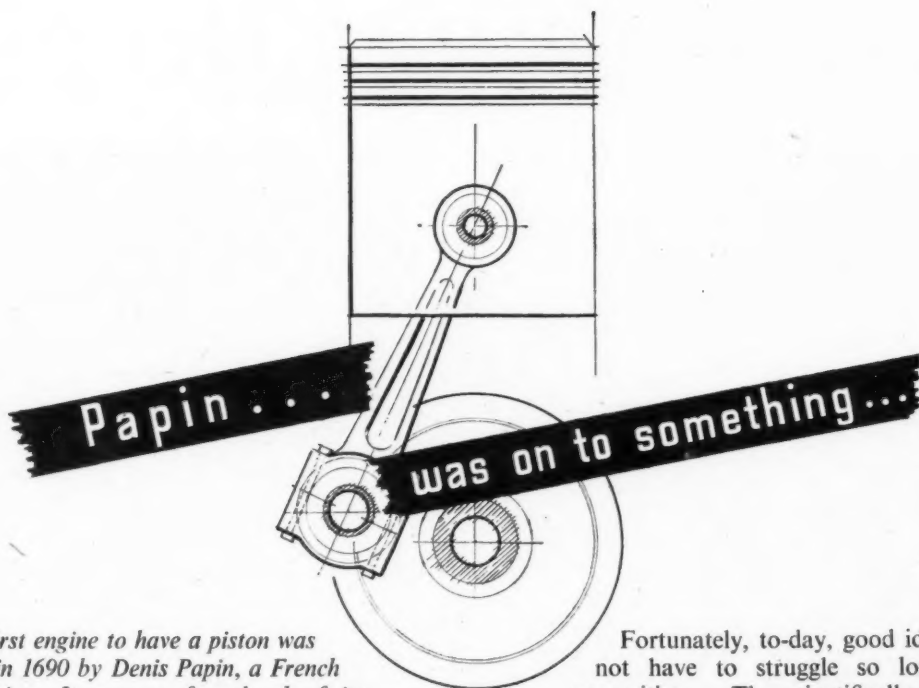
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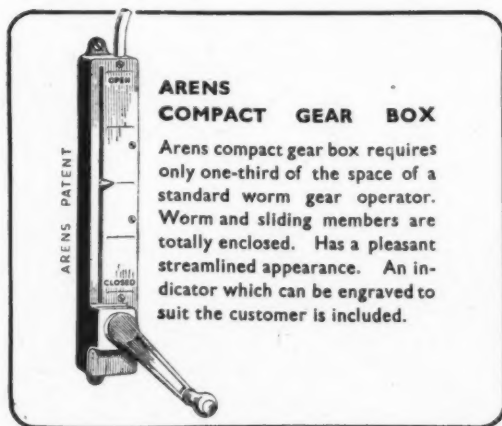
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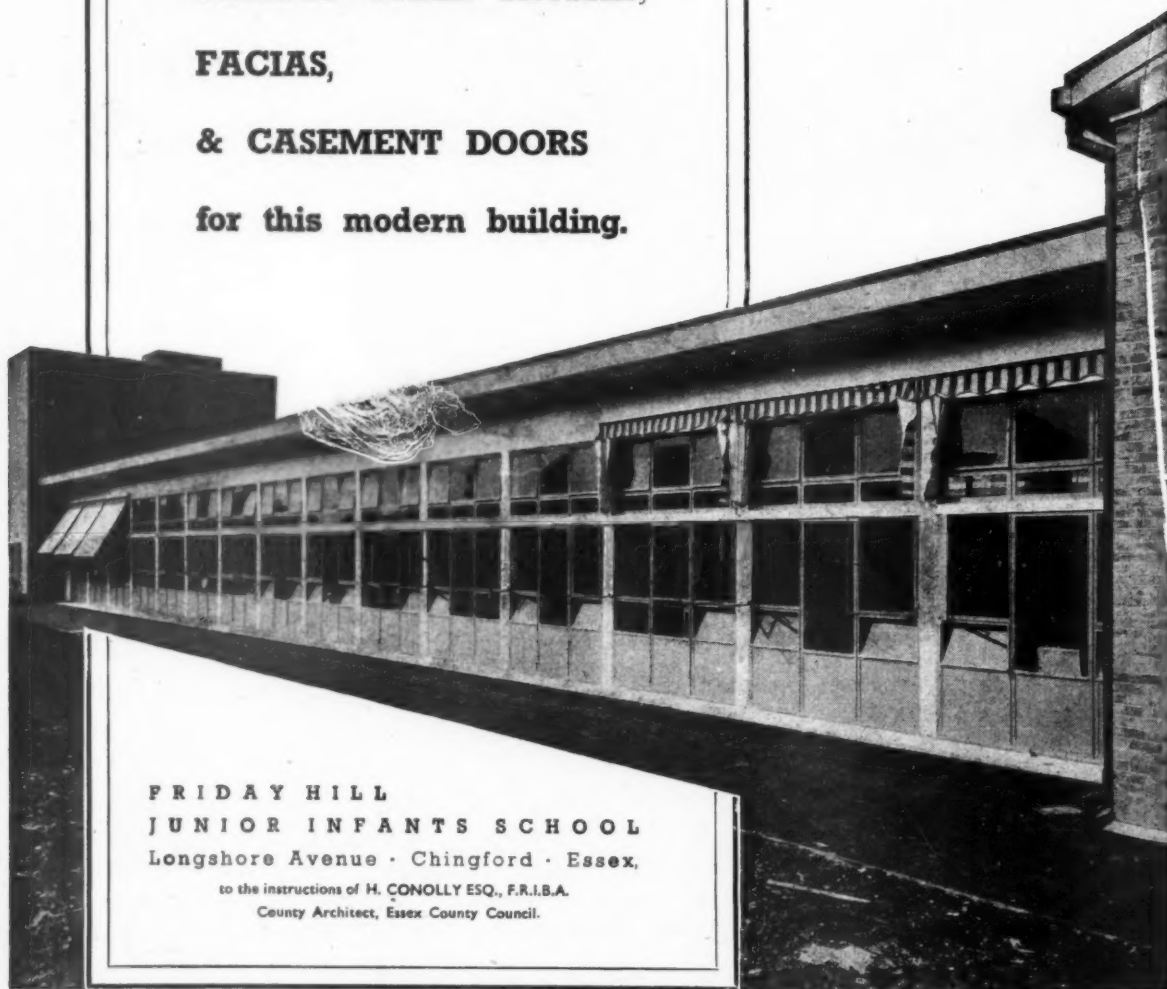


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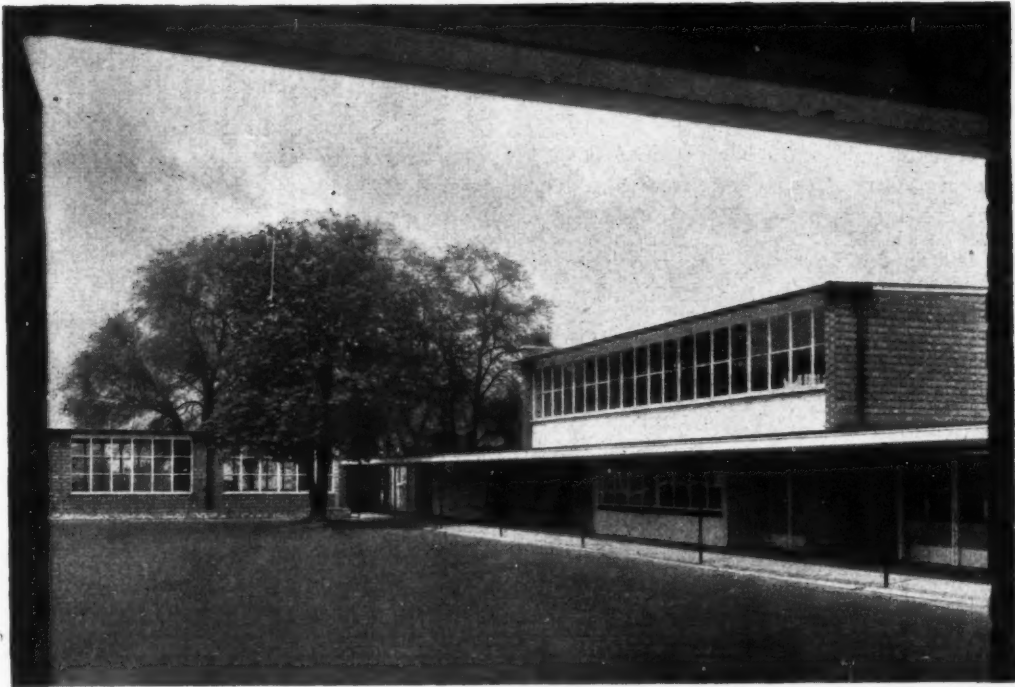


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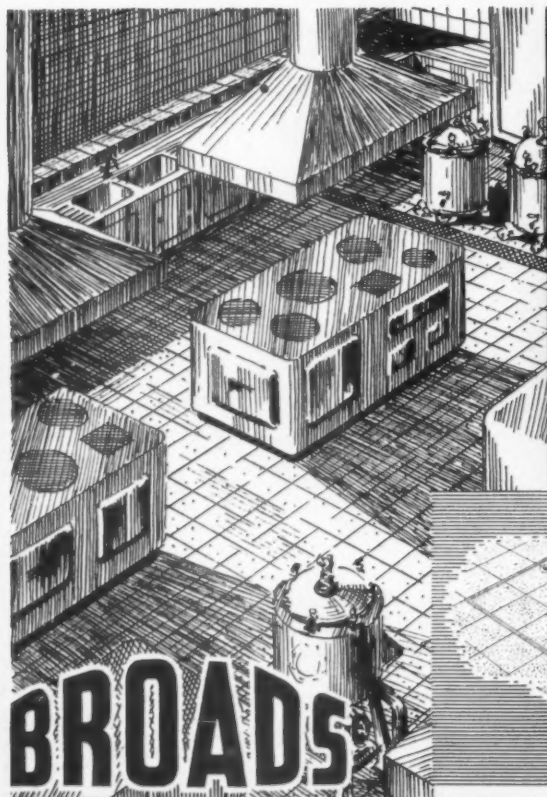
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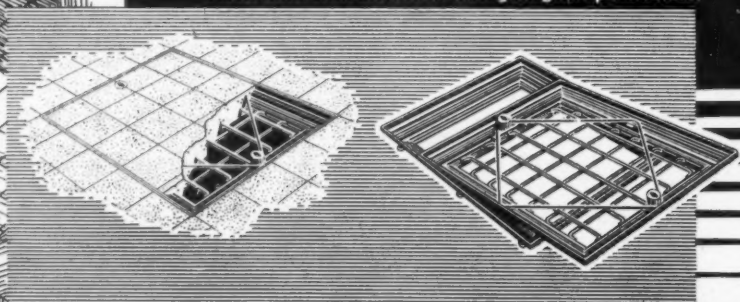
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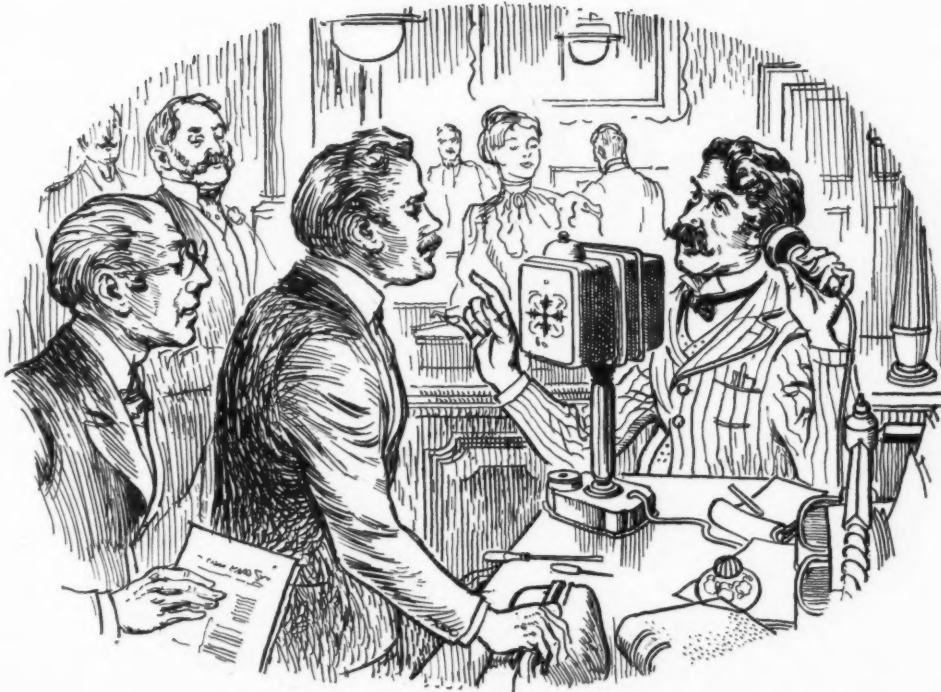
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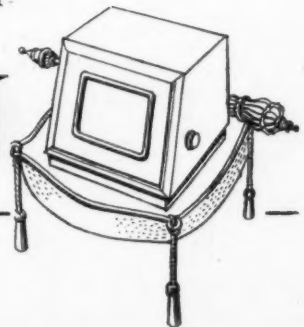
## By 1880 the telephone was becoming a popular service



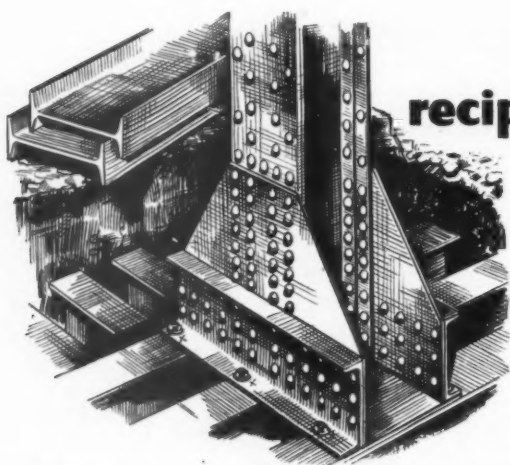
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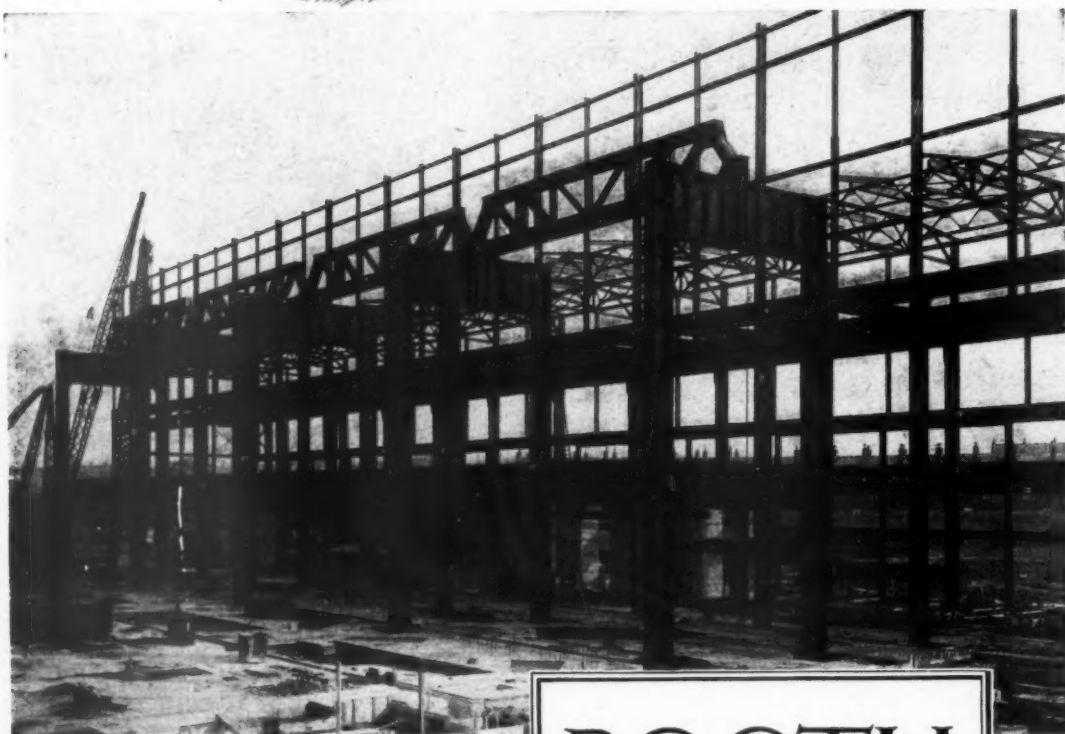


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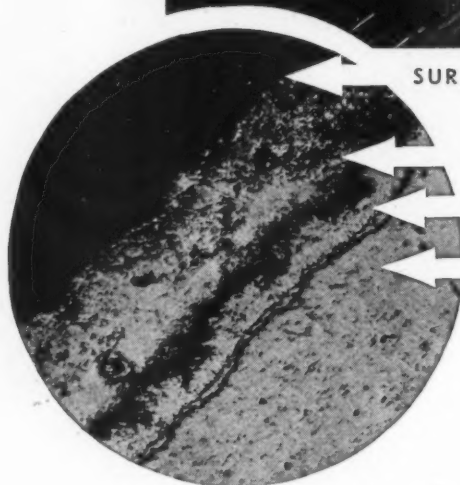
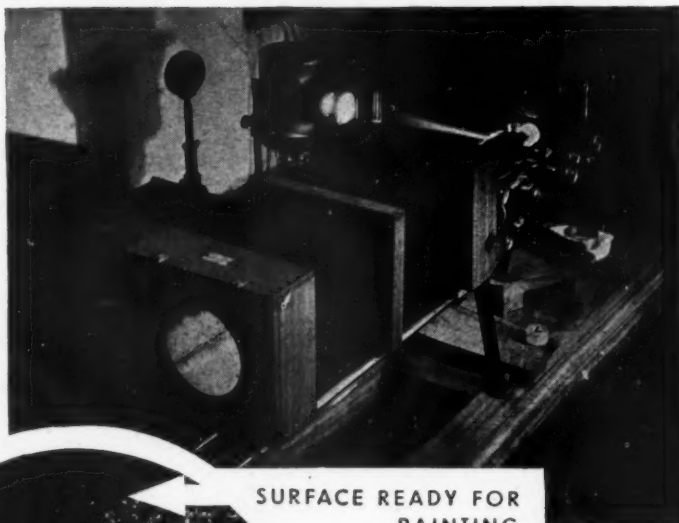
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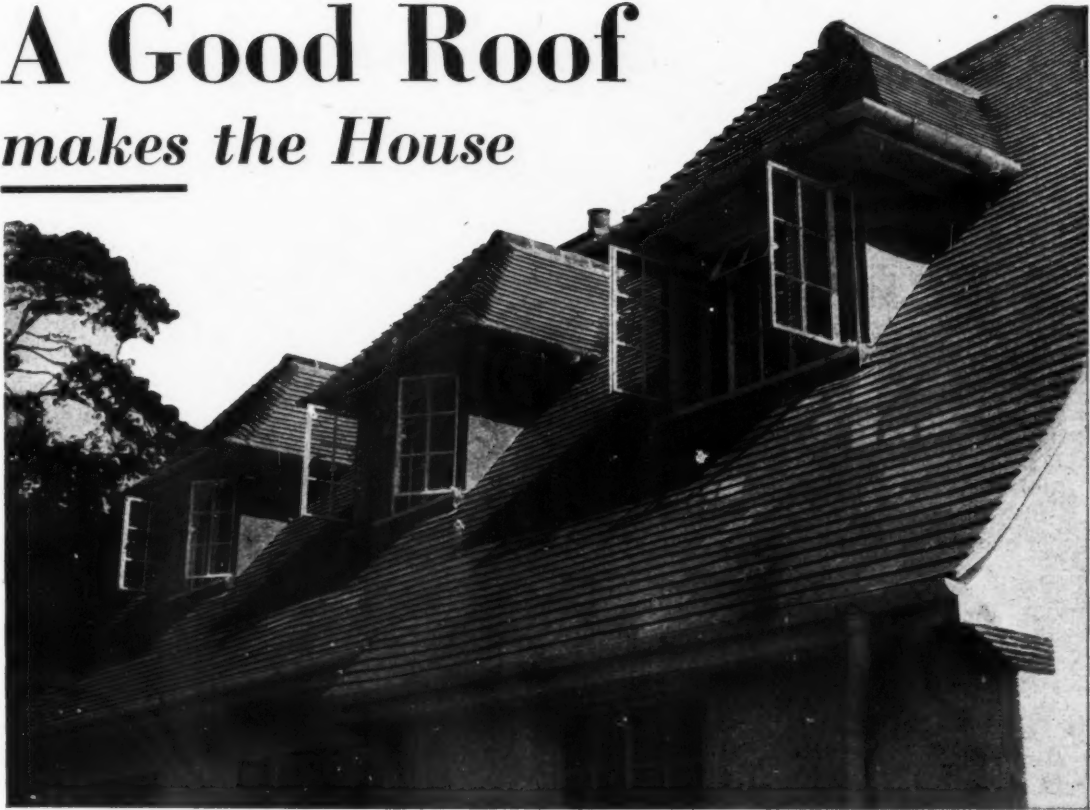
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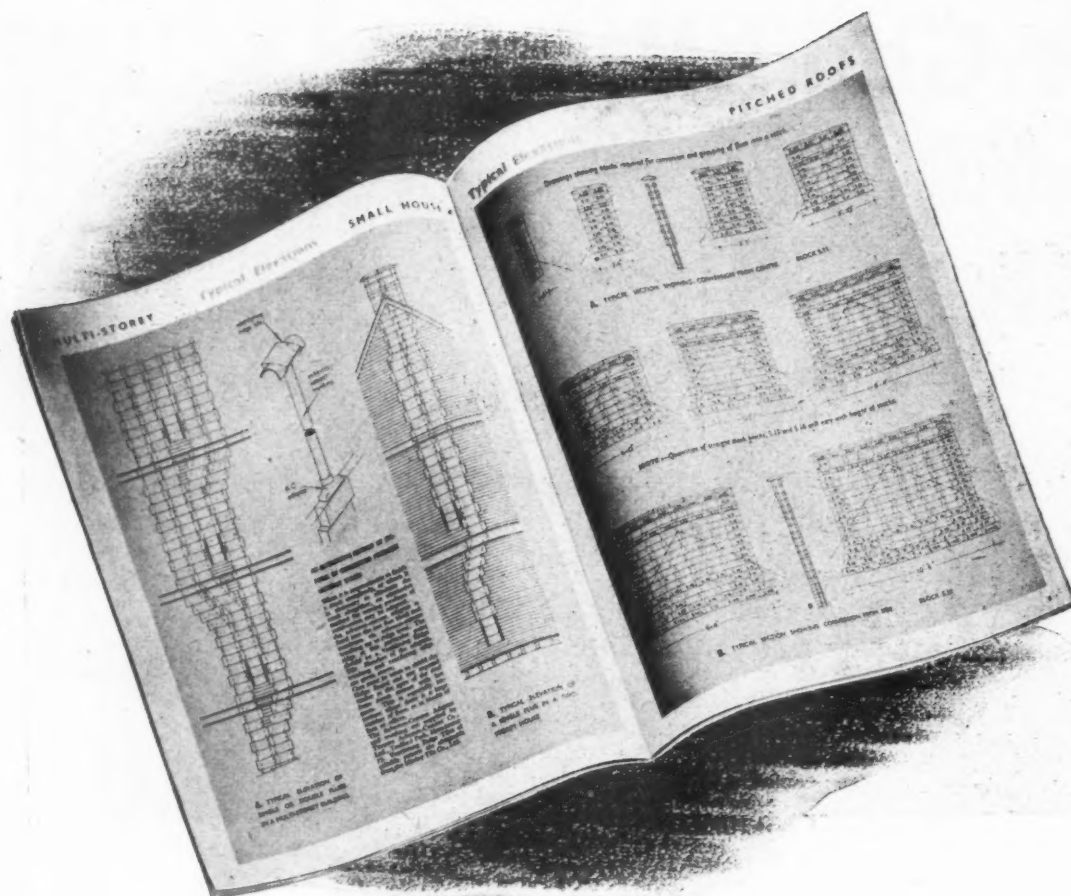
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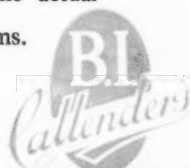
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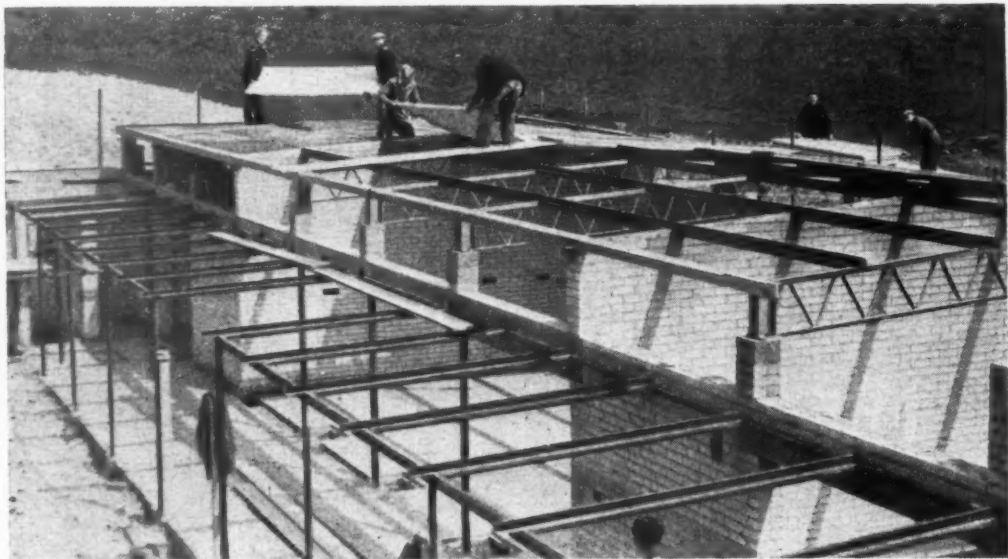


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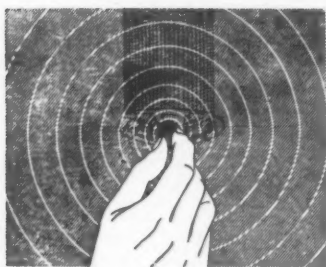


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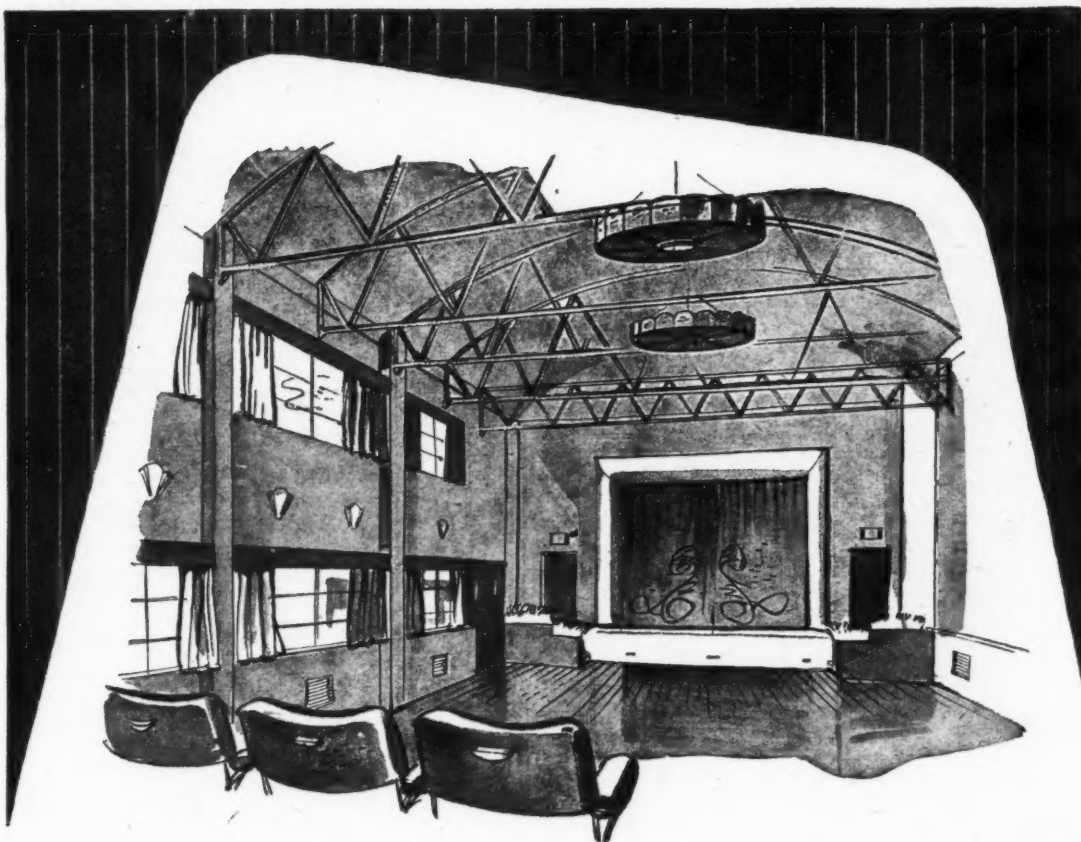
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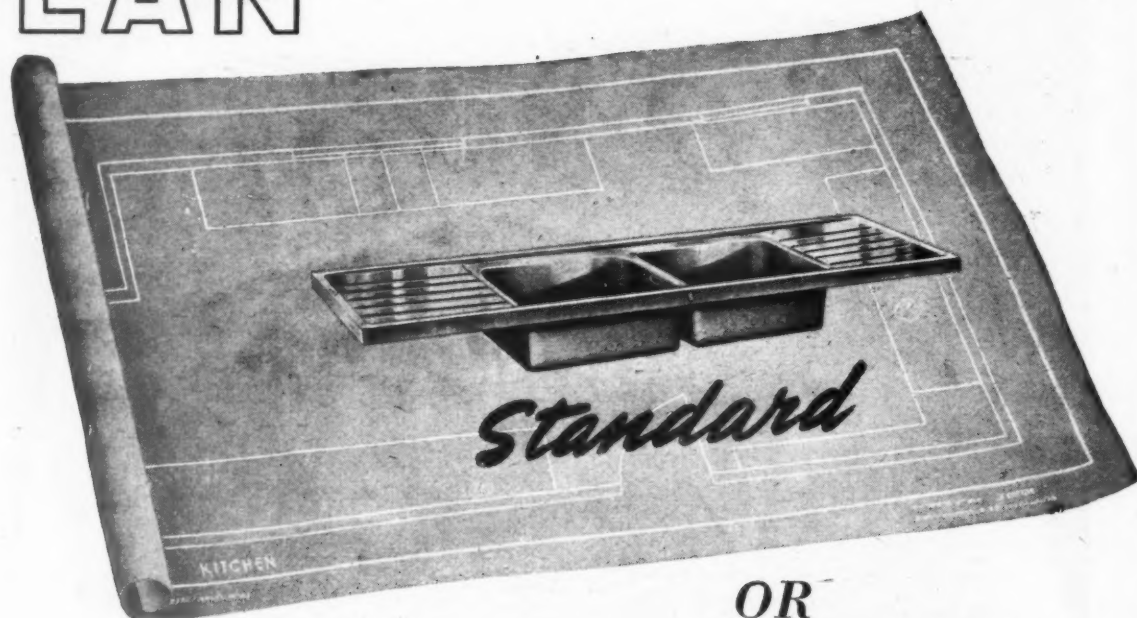
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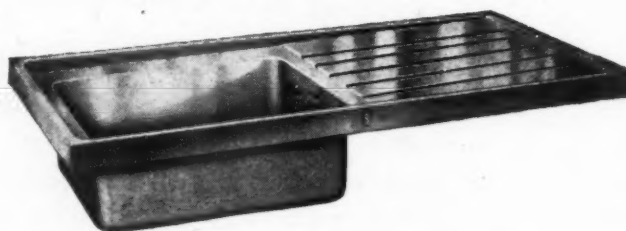


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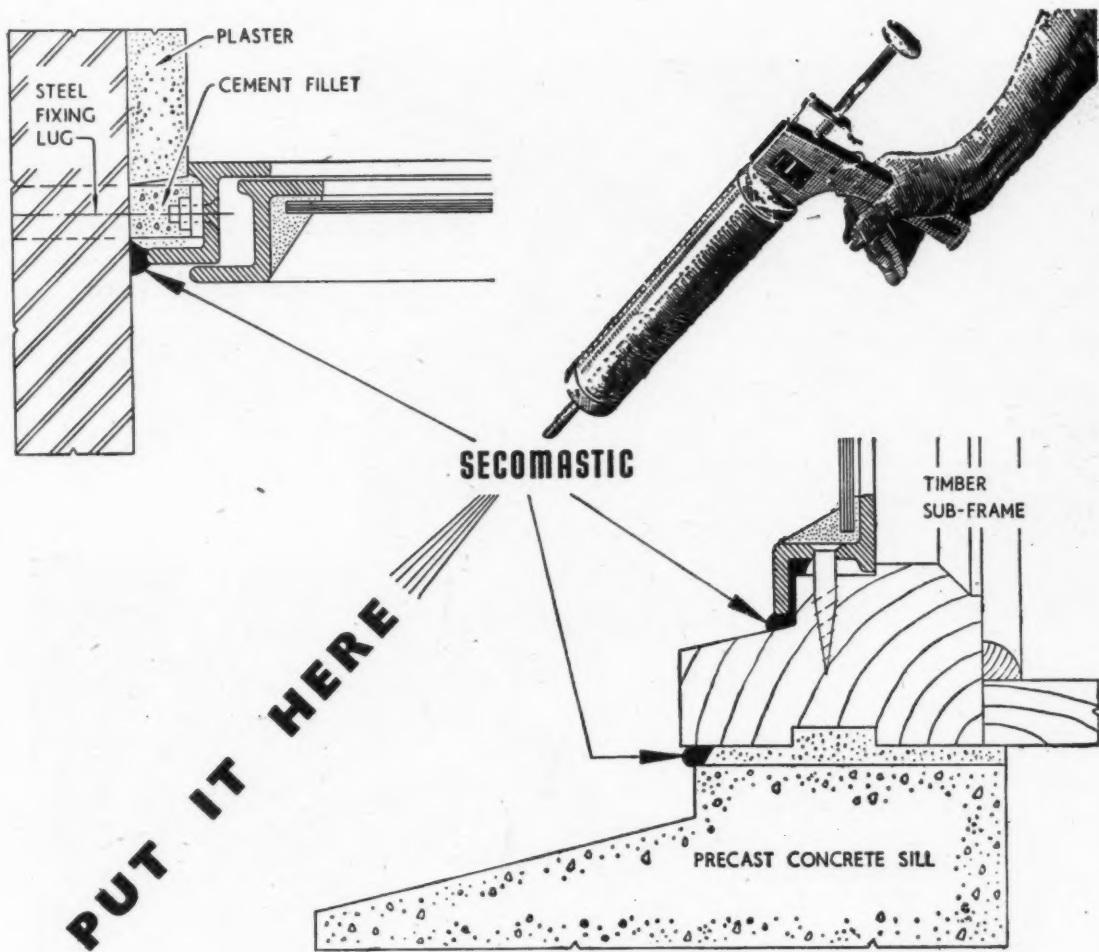
Architects and Architectural Students are invited to consult our Technical Sales and Service Department at St. Helens, or our West End Office at Selwyn House, regarding the properties and uses of glass. Head Office and Works: St. Helens, Lancashire, Telephone: St. Helens 4001. West End Office and Showrooms: Selwyn House, Cleveland Row, St. James's, S.W.1. Telephone: Whitehall 5672-6.

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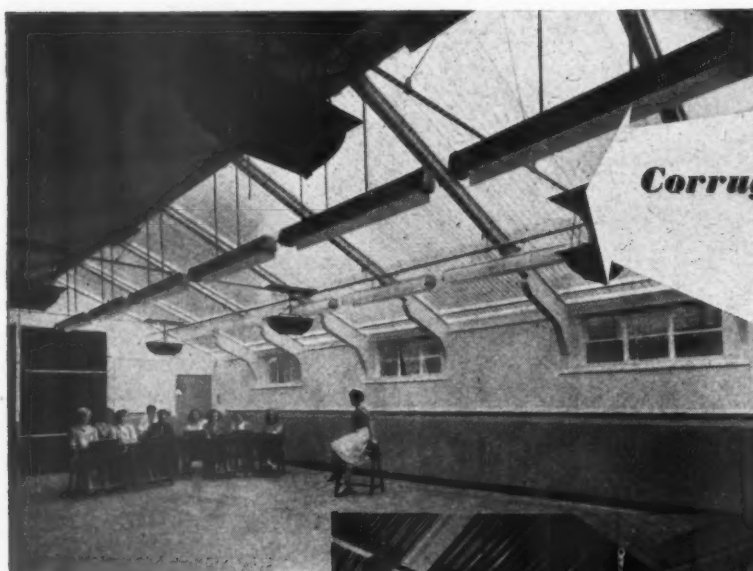
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**1880** The introduction of Hard-wall plaster—Sirapite Plaster.

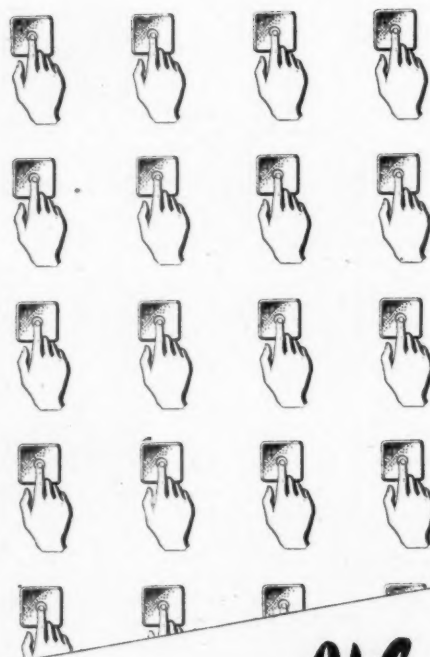
**1935** The introduction of plaster board finish—Sirapite Board Finish.

**1949** The introduction of high covering capacity, non-cracking, rapid drying undercoating free from injurious alkalis—Sirapite Browning.



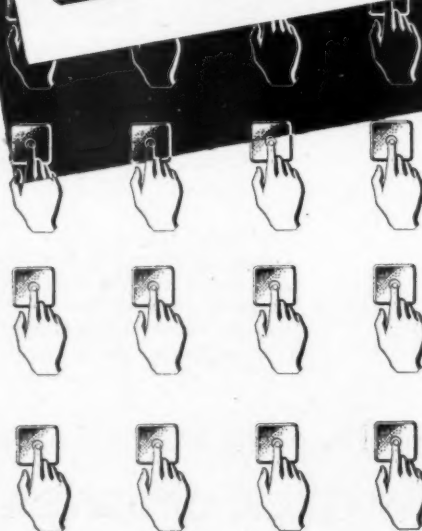
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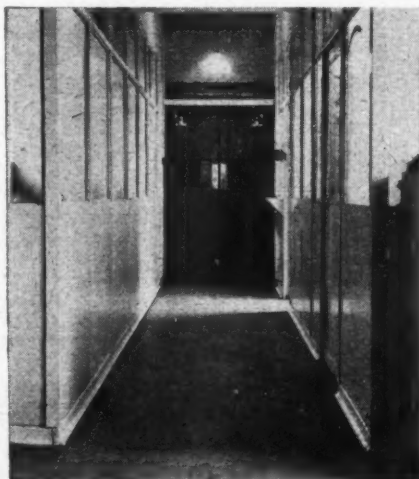




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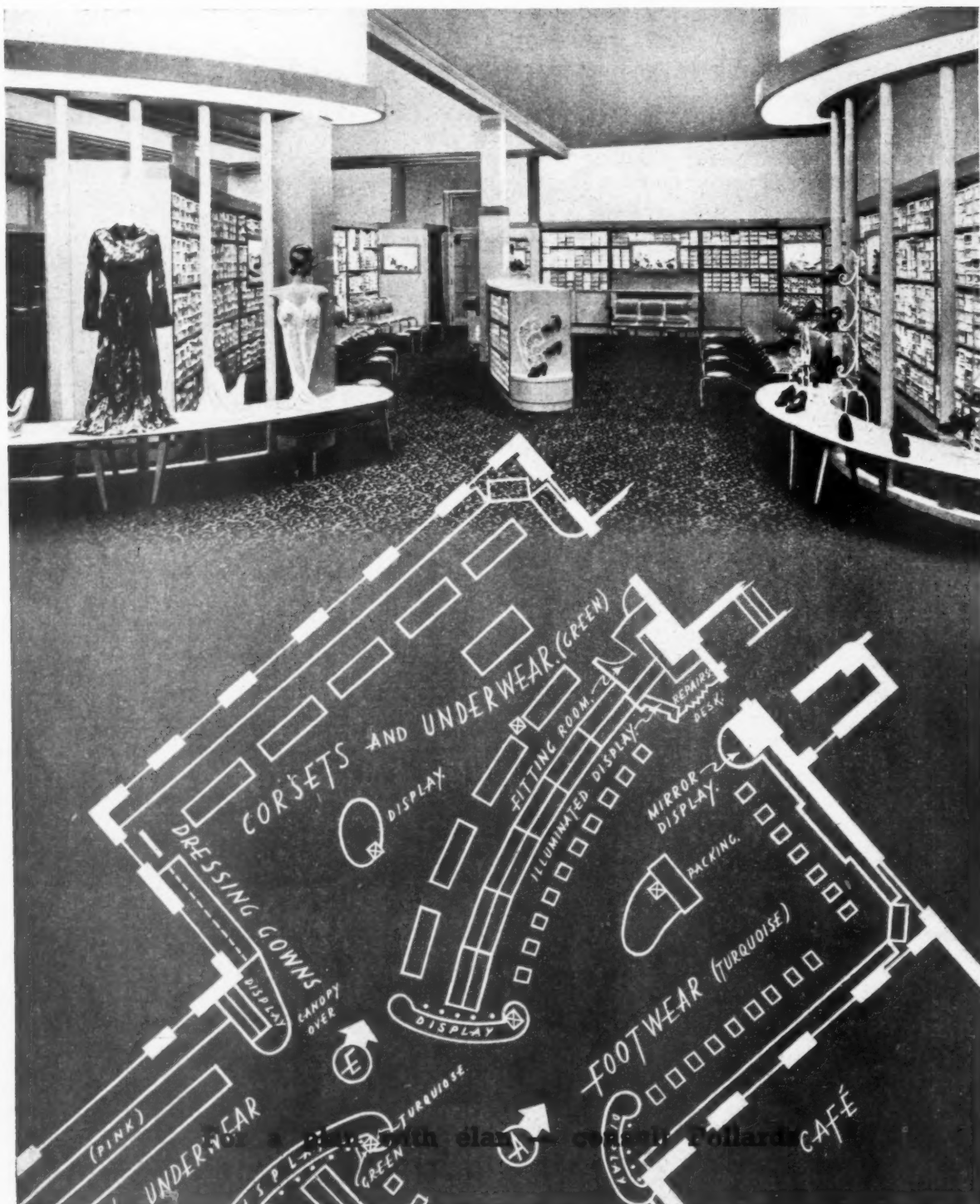
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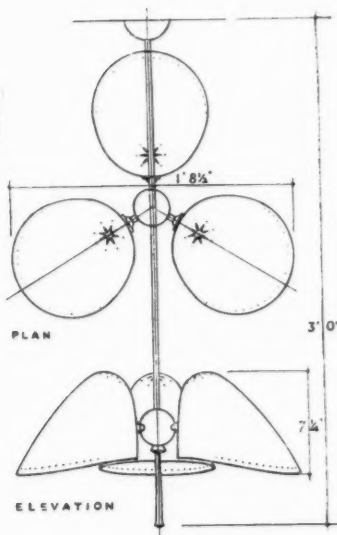
# POLLARDS



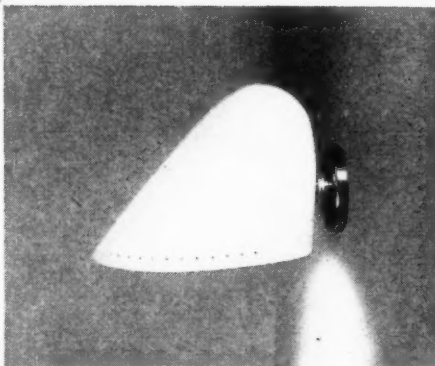
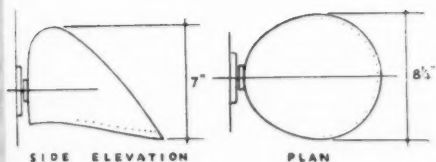




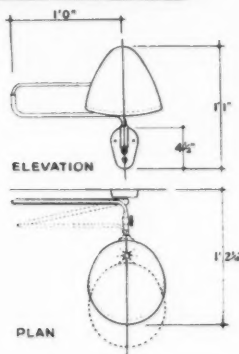
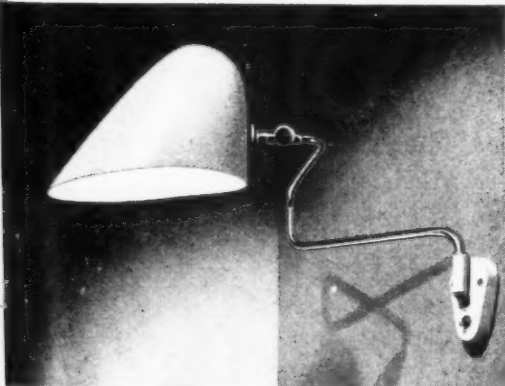
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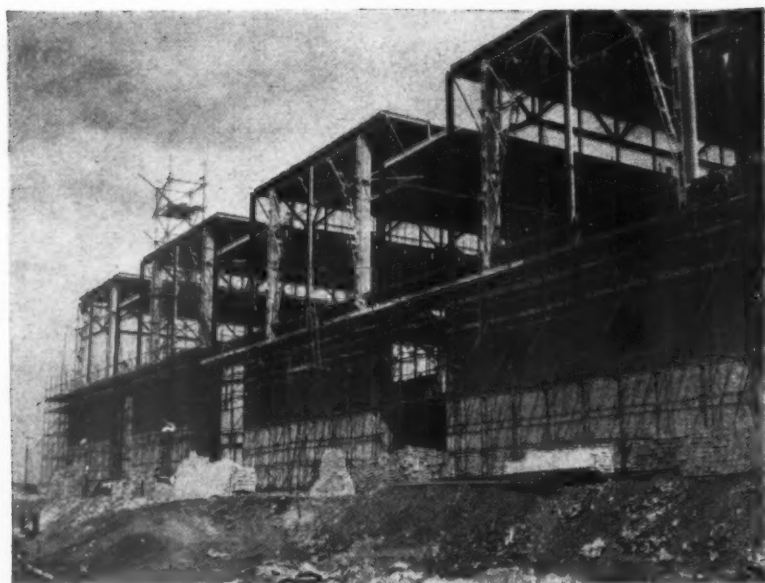
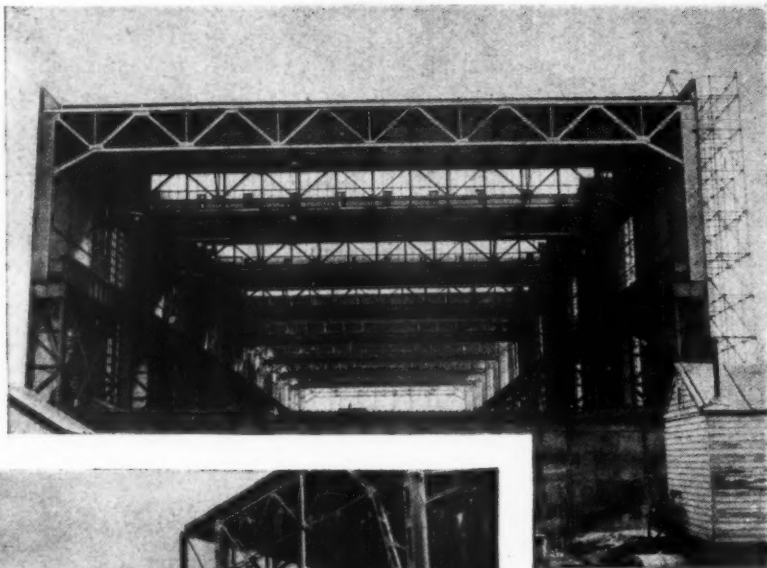
**FV.2/R** Bracket. Adjustable arm. Metal reflector. Finishes: reflector and back plate, ivory white; arm, satin brass or satin chrome. Complete with switch. Lamp: up to 100 watts.

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THE ARCHITECTS' JOURNAL

No 2891 6 July 1950 VOL 112

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## PLAIN MR. BOTANY

With most apposite timing Miss Christina Foyle last week held a Literary Luncheon at which Cecil Roberts, the author, spoke on "The Stately Homes." It was, I'm sure, a relief to many of those present that the subject of the country house, the stately ancient pile, was now once more a topic for casual chatter. Having nearly disappeared as a subject for enlightened left-wing conversation due to past associations with feudal and face-grinding behaviour, the ancestral castle has, in the Gowers' Report, received a mantle of unimpeachable respectability. That which is not art, is at least of historic interest, and, therefore, an object for the public to visit. Mr. Roberts regretted the damage the public did when sight-seeing, and wondered whether what he

described as the "very common man" really derived much benefit. The Earl of Warwick in reply, on the other hand, said how little the public damaged things, and how charming the public were.

\*

The public! What a phrase! The mob, I suppose, out to see how the nobs live. On Monday we inspect big Sir Brian, and Tuesday dear little Brumas. Not quite such obvious bars when we look at the former, but they are no doubt there, all the same. This surely is not the attitude to adopt. A building is part of a way of living. To appreciate its worth fully, and for the miserable public to derive any real benefit, it must not be studied as an exhibition piece, but seen from the standpoint of a guest of the owner. It is not snippets of culture which the public really needs, but close association with a gracious and kindly way of living. Preserve the stately homes by all means, but not just for the benefit of the few. The squires' responsibilities lie now on another plane and are wider than ever.

## DOCUMENTATION

As one only too aware of the extreme lack of information on building developments abroad, I hasten to congratulate the members of the Provisional Steering Committee (see photograph on page 7) of the International Council for Building Documentation on the brave attempts they are making to create machinery which will ensure an even flow of useful information between the nations. Every month sees not only more development in building technique but more publications issuing comments on it.

\*

As things stand at the present, no architect can hope to read intelligently

even the major technical building papers of the English-speaking world. With what impatience, therefore, I wait for a classified summary of all building developments with the possibility of obtaining the original article if the subject is really important to me. This service the International Documentation Council hope soon to provide. I wish them well.

## THEATRE OF PEACE

Most international conferences at the moment seem to be concerned with the theatre of war. It was, therefore, pleasant to attend the recent meetings in Paris where representatives of Western nations discussed the theatre of peace and its architecture. These discussions, together with an exhibition, were arranged by the International Theatre Institute. It was encouraging to note that in Paris, as in London, most of the night before an exhibition is spent in preparing the stands. But last minute rushes do not prevent the French workmen from giving earnest attention to their meals. Carpenters were observed during the hour preceding the opening of the exhibition, seated in front of a check table cloth, courteously passing each other wine, and deaf to the frenzied cries of thwarted organizers. However, when the exhibition did open, its contents were interesting enough. They ranged from the cool and familiar classicism of Auguste Perret's new theatre at Istanbul, through the decorative post-war theatres at Naples and Milan to the more pompous and mechanically ponderous projects from Germany. The discussions were not so exciting. Little was said that has not been said before.

\*

Great Britain played as significant a part as any other nation. Her contribution took the form of a demonstration of a new electrical switchboard and



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dimmer system worked by electronic remote control, which is far smaller, more flexible and more pleasing in appearance than the normal system and, as far as can be ascertained, equally, if not more, efficient in practice. The presence of this piece of mechanism and of Astragal must have served as an example to visitors from other countries that Britain places practicability before ideology.

#### CRICKET ON OUR HEARTH

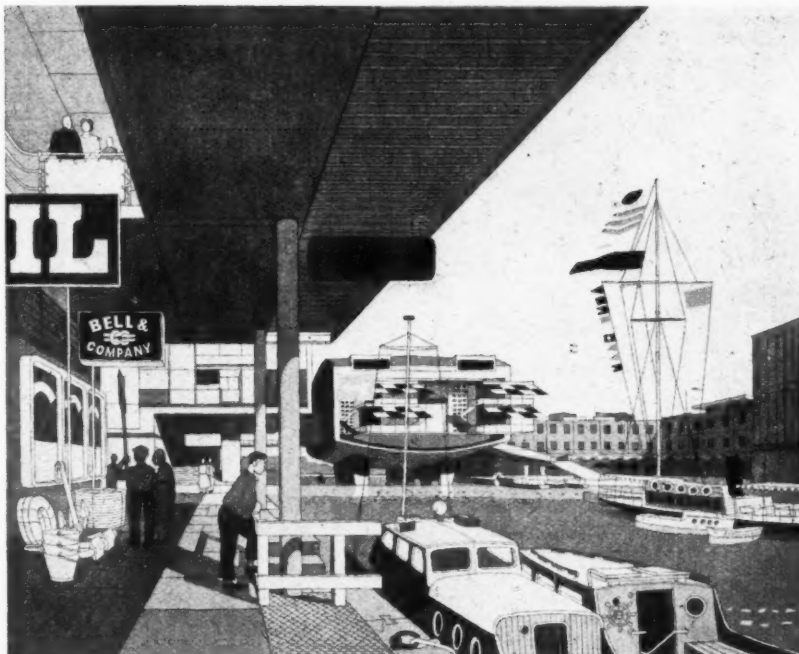
I seldom forget my duties as an Englishman. If a thing isn't cricket I usually say so. If it is, I make suitable comments about the sound of willow on leather and, in case I should be questioned as to the meaning of the phrase, hastily add something about tradition and a national sense of fair play. This invariably satisfies everyone and gives me a chance to snatch a loaf beneath a bough. I wouldn't dare to make such a confession without adding that last week, when cricket came on to my own hearth, I was profoundly moved to the extent of muttering conventional words of encouragement. I hope these words reached the ears of the team I was supporting, which was made up of members of the architectural publications. They certainly needed encouragement, for they were playing against a sturdy team of builders (representing the NFBTE) who seemed strangely averse to the practice of stone-walling.

\*

It is only fair that I should defend my fellow journalists, who were all out for 53. (I am told this is a bad thing to be.) Apparently their captain, Ian Murray Leslie, had threatened to include Edrich in his team. The builders took warning and called in Hammond who, of course, was invariably able to hit the ball before it had bounced for the third time. After knocking up 95 he was compelled to leave the pitch. This, I understand, was the fault of Raglan Squire, the *Journal's* guest editor, who threw a ball at the wicket.

\*

But Hammond was not the only star on this occasion, for captain Costain, who had what was, in effect, a minor county side, declared at 252 for 8. What of Edrich? He was not present. It was generally thought that he was otherwise engaged, though on what grounds I have no idea.



Gordon Cullen's "Water Town" at Marlow. See note.

#### WATER BOY

I have often been accused of giving the *Review* a plug (if I may use an old Tin Pan Alley vulgarism). But any reader who is going to object to my calling attention to the July number of this publication, which consists of a photographic trip down the Thames, is obviously up the creek. Readers of the *Review's* issue on canals will remember that water boy, Eric de Maré, is an adept at discussing and photographing anything damp enough to support a boat. They will, therefore, need little encouragement to ferret out a copy of the July number when they know that de Maré has written on the possibility of making the Thames a "Linear National Park" and has supplied most of the illustrations himself. The Thames valley, he says, should be preserved as "one of the most accessible, one of the most interesting and beautiful of large scale public pleasure parks in England."

\*

Needless to say, Gordon Cullen has also had ideas on this subject. With the help of Ove Arup he has devised a social centre for the Linear National Park in the form of a "Water Town" (illustrated on this page) in a bend of the river near Marlow. The cynic might say that this scheme, if put into practice, would out-rival Richmond as a half-day retreat for the greater part of the population of suburbia. But, fortun-

ately, in planning for pleasure, we have not reached the stage of withholding national privileges from the so-called socially under-privileged. And in any case, those who prefer to meditate away from the gadding crowd will have several miles of continuous towpath from which to select a suitable site.

#### TROUBLE AFOOT

While we're on the towpath let me say something about the national footpath system and the recent correspondence in *The Times*, which was initiated by the Rev. J. H. B. Andrews, of Chittlehampton Vicarage, North Devon. He thinks that the job of mapping local



"After the Holocaust." See page 5.





## *The Stream of Pleasure*

This illustration is one of a series published in the July issue of *The Architectural Review* to illustrate the special quality of the towpath line of the Thames, the "Stream of Pleasure." (At this pausing place, Boulter's Lock, "the line sits down and spreads its legs.") This issue, written by Eric de Maré, and largely illustrated with his photographs, starts from the premise that the idea of developing the towpath as a Riverside Walk has now been accepted by all the authorities concerned, and continues by putting forward a case for making this proposed Walk part of a larger whole—the Thames Linear Park. The

special characteristics of the Region (between Teddington and Cricklade) are dissected and the problems of providing amenities is considered. The character of the Thames landscape is also analysed and the technique for preserving and enhancing that character is outlined. One aspect of this character has been applied to a new typical riverside town—a site at Marlow being selected to illustrate the proposals by Gordon Cullen and Ove Arup. A drawing of Mr. Cullen's "Water Town" and a reference to the July *Review* appear in ASTRAGAL'S notes on page 3.



footpaths which the National Parks Act compels the parishes to undertake is an unwarranted imposition on busy countrymen. The Vicar hits out angrily—in his parish sixteen miles of footpath seldom used, paths difficult to find, rambles so few that no one minds where they go, “an arduous and useless survey.”

I think the Vicar has exaggerated the difficulties of establishing “the footpath faintly marked, the horse-track wild.” And so does Mr. Baker, Secretary of the Commons, Open Spaces and Footpaths Preservation Society, as I found when I telephoned him. “Mr. Andrews is making an unnecessary fuss,” he said. “He is being parochial. This is an important national concern. If, as he writes, a stranger would have difficulty in finding the public paths in his parish, that is the strongest possible reason why they should be ascertained and kept open. The County Councils will prepare the provisional county footpath maps. When that has been done, anyone who likes can make objections and representations, and arguments can be settled legally. All the parish councils have to do is to give the county council objective information. Why shouldn't they do that?”

#### AFTER THE HOLOCAUST

The photograph on page 3 sent me by a correspondent who returned recently from south-west France, shows one of the by-products of the forest fires which swept Les Landes last August—a concrete telegraph-standard broken by the great heat. For miles along the road south of Bordeaux one sees these broken standards; so great was the heat that even where the flames were halted on one side of the road the standards on the other did not escape.

Of course we all know, what happens is that the steel reinforcement expands and bursts the concrete. That being so, my correspondent points out, one might expect the fracture to occur at approximately the same place every time. But this was not the case; he could discover no method in the madness of the flames. Forest fires, in fact, do not reproduce laboratory conditions.

ASTRAGAL

## The Editors

### BUILDING DOCUMENTATION

ONE of the most important events in the architectural world during the last month was the meeting of the Provisional Steering Committee attached to the International Council for Building Documentation. This Committee, which is made up of representatives from various countries, has been preparing for the first meeting of the Council.

It may be remembered that the idea of forming such a Council was conceived as a result of an international awareness of the value to contemporary architecture of a pooling of ideas on such subjects as building technique, materials and equipment. After two years of discussions, the setting up of the Council was proposed last October, when 85 delegates from 17 nations and 12 international associations (the Housing Sub-Committee of the UN Economic Commission for Europe) held a conference under the chairmanship of Robert Fitzmaurice, the JOURNAL's technical editor.

At this conference, the Sub-Committee discussed the technical problems which have to be solved if a flow of information on building methods is to be unhampered by the barriers of language, currency restriction and distance. The difficulties involved in the establishment of a scheme for the interchange of ideas are apparent when it is realised how far from easy it is to keep abreast of developments in this country alone. It was realised that the best means of providing an international network through which information might be exchanged was by the foundation of a Committee in each country, representative of those members of the building industry primarily concerned with technical matters. Many countries have already established these National Building Documentation Committees, which are selecting, summarizing and classifying the most important books, pamphlets and articles. These abstracts will then be exchanged for those of other nations.

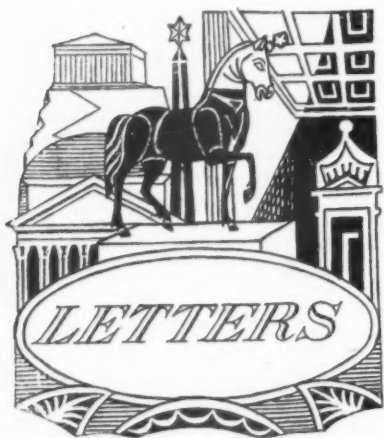
Although agreement has been reached on the method of preparing abstracts it is still necessary to devise a means of making original publications (and translations) available to all countries. This and several other problems have to be solved before a perfect system of building documentation is established. But in some countries the scheme is already beginning to work efficiently and the Steering Committee is confident that it will soon be operating effectively on a large scale.

### A LESSON LEARNT

Only a few years ago it was said that the solution to the building industries' problems lay in the production of completely prefabricated buildings in the factory. When this method largely failed, there was an immediate reaction in favour of tried and familiar traditional building methods.

At last, however, the pendulum is beginning to swing the other way again. But this time it is to be hoped that a lesson has been learnt. The factory will surely be used not for the mass production of a single type of building, but rather for making a variety of building components to a higher degree of finish, so that work on the site, particularly as regards interior finishes and services, will be reduced to a minimum.

The chief architect of the MOW, S. A. W. Johnson-Marshall, in a recent talk which was one of an admirable series on architecture being broadcast by the BBC, has, however, once again emphasized the point often made in the JOURNAL that the solution of new building problems depends on the creation of a building team in close co-operation; a team in much closer co-operation than existing codes of professional conduct allow. He went further outside what is usually considered the architect's province to emphasize that even the development by a building team of new techniques was not sufficient unless the team would be prepared to expend equal thought and ingenuity on the development of the administrative organizations on which they rely. Both tasks are beyond the strength of the architect alone, but the other members of the building team are anxious to assist, if asked. The man in the key position, however, is still the architect.



### Where Does the Money Go?

SIR.—Mr. Carton Tickell (AJ, May 25, 1950) appears at a loss to understand why salaries in the profession are now, as ever, totally inadequate. He has not far to look for his explanation. The hierarchy of the RIBA is largely composed of architects in private practice, and it is not to be expected that these men will encourage salaries to find their proper level when their own staff wages bills must be affected by so doing. It is undoubtedly this same influence which has prevented the RIBA from making more whole-hearted attempts to obtain a reasonable standard of remuneration for its members in public offices. Even with the present shortage of assistants, the private architect

is showing himself most unwilling to compete with public departments, by offering reasonable salaries.

The majority of architects will always be employed in salaried positions; and these men are pathetically slow in realizing that they have nothing to gain by becoming members of the same professional body as their employers, for very obvious reasons.

Their only hope lies in the forming of an independent organization capable of negotiating with both private architects and public bodies solely on behalf of the salaried architect. The RIBA has long since shown itself to be constitutionally unfitted to deal with the matter.

Until some professional body demonstrates its willingness and ability to bring about a very definite improvement in the financial

condition of the salaried architect I shall save my guineas and rest content to remain an "unattached" architect.

J. V. DIXON VAUGHAN.

Shropshire.

### Live Architecture?

SIR.—The great exhibitions of the last hundred years have been noted for great courage and resource in the architectural field. What a tragedy that the live architecture exhibit for the 1951 Festival of Britain should be so timid! As a pattern for the rebuilding of London it fails completely. To rehouse here only 42 per cent. of the pre-war population means that London must spread yet further into the countryside. The new houses must rise into space.

An even more serious matter, since human life is involved, is the failure of the planners to divorce motor vehicle from pedestrian. I notice that small children cannot avoid crossing a traffic route on their way to school.

As a student, I can have no faith in architects with such an uninspired outlook. Only when architects meet their problems realistically and honestly, refusing to be side-tracked into mannered and romantic byways, can they make a vital contribution to contemporary life.

BRIAN SMITH.

Luton.

### New Towns

SIR.—I would like to thank Mr. R. A. Jensen for his excellent letter in your June 8 issue.

There is, however, one major suggestion made by Mr. Jensen which needs to be questioned, as I am sure he will agree when he thinks it out fully to its logical conclusions. He says that at the present rate of progress the new towns around London will not produce effective results for a generation.

He argues that on this account and also in order to prevent further desecrations of London's Green Belt the only possible solution to London's population problem is to further increase population densities for the inner residential areas "on the Corbusier pattern."

Without opening up the futile arguments about flats, houses and multi-storey buildings, this suggestion needs to be considered from the widest comprehensive viewpoint, that is, from a national and humanitarian angle, and related to the present-day world outlook, with World War III cocking an atomic snook at our bewildered politicians. Mr. Jensen should remember that we are today living under the most dread threat that ever faced this planet. In an atomic war, because of this country's political and geographical line-up, it would be nothing but a densely populated arsenal and aircraft carrier, with a fate which we can only try to guess.

The problem of dispersal of population and industry should be our major and primary concern. But it calls for urgent, quick and decisive action which should be vigorously pursued. When faced with such suggestions most people howl "Where is the money to come from?" Without prejudice, it is clear that the amount being spent upon the 1951 Festival of Britain would pay for one, if not two, new towns; not to mention the fabulous sums swallowed annually by atomic warfare research and preparations and by our general "defence" bill.

ALEXANDER FURNESS.

London.

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



## LONDON AIRPORT

### Architect for Terminal Buildings Appointed

Frederick Gibberd has been appointed by Lord Pakenham, Minister of Civil Aviation, as architect for the permanent terminal buildings to be constructed at London Airport.

This was announced by Lord Pakenham in the House of Lords last week.

He pointed out that when his predecessor, Lord Winster, announced that he proposed to throw open the final design of the terminal buildings at London Airport to public competition it was the intention to build temporary buildings on the terminal site in the first place, and later to replace these by permanent construction. It was now clear that pressure on space in the central area would be too great to allow this transitional plan to be carried out, and he therefore proposed that the terminal buildings should be in permanent construction from the start.

The final requirements for the terminal area had only been settled after a considerable period of development, in course of which it had become clear that the work was not an appropriate subject for open competition. After consultation with Graham Dawbarn, who was to have been assessor for the competition, and with the appropriate authorities, he had appointed Frederick Gibberd for the work. Since October, 1948, Mr. Gibberd had been consulting architect for the interim scheme and had already acquired a considerable experience of the problems generated by the complex and functional layout of a great modern international airport.

## COMPETITION

### Housing for the City Corporation

Details will be announced later of an open competition for the layout and design of 352 flats, at a cost of £935,000, in the City of London. The city corporation is to seek powers to acquire compulsorily a site near Golden Lane, E.C.

## RIBA

### Golfing Society's Results

The annual match between the RIBA Golfing Society and the LMBA Golfing Society was played at West Hill Golf Club, Brookwood, Surrey, on Tuesday, June 13.

Singles were played in the morning and foursomes in the afternoon; the result was a win for the builders by 10½ matches to 7½.

## KENT

### Substantial Agreement over Outline Plans Proposal

A substantial measure of agreement has been reached over the general lines proposed so far upon which the towns and countryside of Kent should be planned for future generations. The County Council has to submit to the MOTCP by 1951 a development plan for the administrative county which will foreshadow the trend of urban and rural life in an area of about 1,500 square miles for many years to come.

After being available for discussion for more than twelve months, the outline plan, prepared by the county planning officer, J. W. R. Adams, has now been studied by the county planning committee in the light of comments received from outside sources. In a report of 52 printed pages, the county planning officer has told his committee:—

"Forty county district councils have indicated agreement with the outline plan in all but minor details. Only sixteen of the fifty-six county district councils in Kent disagree to any extent with the general lines upon which it has so far been proposed that the planning of the administrative county should proceed. Furthermore, some of these differences of opinion are not serious. In certain cases, even these will be resolved if the recommendations in this report are adopted."

The problem of deciding how the 1951 Development Plan, which is to be submitted to the MOTCP, should be formulated has already been partly decided by the county

council, which has come to important decisions affecting those parts of Kent within the Greater London area. For those parts, the council has decided that it will base the 1951 plan upon the population which can be accommodated in accordance with sound, detailed planning principles. All land within or on the periphery of the urban area which is intrinsically suitable for general building development will be scheduled as such unless there are specific factors affecting the land, such as agricultural value, reservation for open space or other purposes precluding general building development. The council considered, but rejected, the solution to the problem implied in the Greater London Plan, as it was thought that this would have involved saying to people (in effect): "You can't go to live in such and such a place because the maximum population figure has been reached."

## SCOTLAND

### Grants to local planning authorities

The Town and Country Planning (Grants) (Scotland) Regulations, 1950, which are intended to assist local authorities in meeting the heavy expenditure involved in the redevelopment of central areas in towns, came into operation on June 8. The Regulations were made by the Secretary of State on May 24, under sections 89 and 92 of the Town and Country Planning (Scotland) Act, 1947. They provide three main types of grant to



Last week the Provisional Steering Committee of the International Council for Building Documentation met in London. Above are some of the members visiting the JOURNAL's offices in Queen Anne's Gate on the evening of June 28, the day of their arrival in this country. Reading from left to right: J. van Ettinger, of Holland, Director of Bouwcentrum; B. Agard Evans, Chairman of the British Building Documentation Committee; A. Marini, of France, Director of Centre Scientifique et Technique du Batiment; E. Weissmann, of the United Nations Economic Commission for Europe, Director of Materials and Construction; L. Giertz of Sweden, Editor of S.A.R. Abstracts of Building Literature; R. Fitzmaurice, the JOURNAL's Technical Editor.



## LABORATORY IN MANCHESTER



The laboratory at Droylesden, Manchester, provides facilities for dyeing research and routine laboratory tests associated with dyeing work. It was designed by the chief architect of Courtaulds, Ltd., W. F. Johnson, and the regional architect, J. T. Alliston. The two sections of the laboratory operate independently. Lavatories, cloakrooms and stores are placed between the two sections. Walls are of 11-in. cavity construction. The roof beams are of precast concrete. The floors are of reinforced concrete. Rustic facing bricks have been used on exterior walls. Window surrounds are of reconstructed stone. Walls and ceilings are plastered and distempered. Wall surfaces in the experimental machinery room are of fair-face brick. Floor surfaces are of quarry tile, wood block or linoleum. Doors have metal frames. Above the main entrance. The general contractors were Messrs. David Walton & Co., Ltd. A list of sub-contractors appears on page 26.



Floor plan

Scale: 1/4" = 1'0"

local planning authorities:—(1) towards the cost of the acquisition and clearing of land in war-damaged areas and areas of bad layout or obsolete development; (2) towards the loss incurred in acquiring and clearing land in other areas; and (3) towards compensation payable by the authorities resulting from the exercise of their general planning functions.

In the first case, the grants are payable for 60 years on the basis of loan charges of the loss incurred by the authorities on such acquisition and clearing, and are at varying rates for different parts of that period according to the financial circumstances of the authorities. For war-damaged areas the rate of grant for the first 5-8 years is 90 per cent. and thereafter 50 per cent. for the remainder of the 60 years. The grants in the other two cases will normally be of a capital nature, the rate varying according to the financial circumstances of the authority.

So long as the present housing shortage exists and labour and materials continue to be scarce there will be obvious difficulties in the way of embarking on schemes of large-scale redevelopment of blighted or blighted areas. Within the limits of the present financial position, however, the grants now available will assist the authorities in carrying out much-needed improvements in central and other areas in our towns and cities. The grants will be payable in respect of any grant earning operation or action since July 1, 1948, i.e., the date on which the planning system under the 1947 Act came into operation, except in the case of blighted areas when the operative date is June 15, 1945.

## MOTCP

*Amended Regulations for Local Authority Grants*

Hugh Dalton has fulfilled an undertaking which he made in the House of Commons on April 24 to issue amending regulations affecting the grants to be made to local authorities for reconstruction of war damaged areas and other purposes. These are the Town and Country Planning (Grants) Amendment Regulations, 1950 (Statutory Instrument, 1950, No. 706). Under the new regulations local authorities will have to consult the district valuer to obtain an estimate of the cost of acquisition of land and a certificate that the amount of compensation paid does not exceed what the district valuer considers to be properly payable, but may conduct their own negotiations. The earlier regulations had laid it down as a condition of grant that both negotiations and valuations for the acquisition of land and the settlement of compensation should be undertaken by the district valuer. This condition was objected to by a number of local authorities.

*Proposal for Protection of Nature Reserves*

A request that local planning authorities should consult with the Nature Conservancy before allowing developments which might interfere with proposed nature reserves in their areas is contained in a circular issued by the MOTCP.

The Nature Conservancy, whose offices are at 91, Victoria Street, S.W.1, was appointed in March, 1949, and was given special powers by the National Parks and Access to the Countryside Act in December of that year to provide nature reserves. The Ministry's present proposal is a temporary measure for protecting possible nature reserves until the Conservancy is in a position to manage reserves itself.

Certain other areas of special scientific



interest will also be defined by the Conservancy, and here too the Ministry has asked for consultations between local planning authorities and the Nature Conservancy.

## Bungalows forbidden in National Park

Hugh Dalton has refused permission to H. J. S. Davies to build two bungalows at Llanwenarth Citra, near Abergavenny, in the proposed Brecon National Park. The site on which Mr. Davies wanted to build occupies a commanding position on the hillside forming the foreground to the Sugar Loaf Mountain, and overlooks the valley of the River Usk.

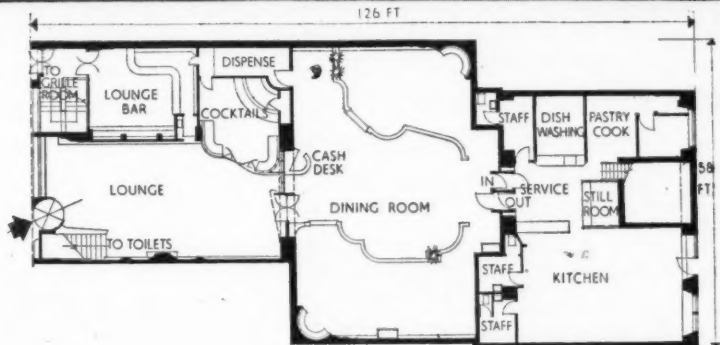
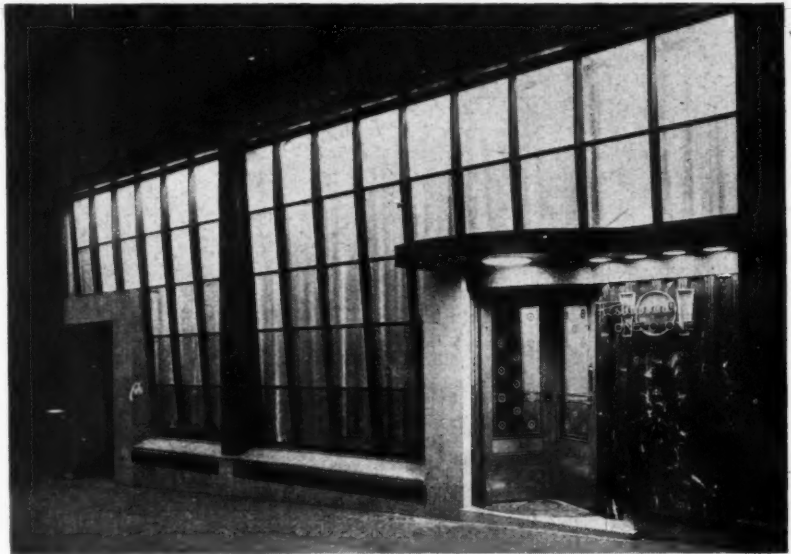
In giving his decision, which followed an appeal by Mr. Davies, Mr. Dalton stated that "in general, stronger justification than is required elsewhere needs to be shown by a person who wants to build a house for himself in a National Park, away from the towns and larger villages, and whose occupation does not require him to live there."

## IRELAND

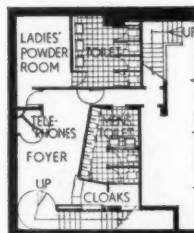
### Working Party for Schools Appointed

The composition of the Working Party appointed to expedite the building of intermediate schools in Northern Ireland was announced recently by the Ministry of Education. The Working Party, which is representative of Local Education Authorities and of the Ministries of Education and Finance, is as follows:—Dr. J. Stuart Hawnt (director of education, Belfast County Borough), E. H. Slade (director of education, Londonderry County Borough), K. A. MacCormac (director of education, County Antrim), W. R. Thornton (education architect, County Armagh), H. Dinsmore (director of education, County Down), D. Malone (chief education officer, County Fermanagh), D. Hall Christie (County Londonderry education committee), A. Gibson (chief education officer, County Tyrone). The representatives of the Ministry of Education are W. H. Smyth, assistant secretary (who will act as chairman of the Working Party) and A. J. Tulip (staff inspector of intermediate schools). The Ministry of Finance is represented by F. J. Fakiner (Works Division) and R. W. Donaldson. The secretary of the Working Party is W. S. L. Baker, Ministry of Education.

## RESTAURANT IN GLASGOW



Ground floor plan [Scale: 1/4" = 1'0"]



Basement plan

The new 101 Restaurant in Hope Street, Glasgow [designed by W. A. Gladstone], the exterior of which is shown above, has a window surround of pink granite and the doors and sills are faced with sand finished travertine. The shaped astragals of the windows are of teak. The dining room, shown below, has wall panelling of Genoa velour with sycamore butt mouldings and the lighting is two-colour cold cathode in fibrous plaster troughs. The general contractors were Robert Rogerson and Co., Ltd. For list of sub-contractors, see page 26.



## FOB

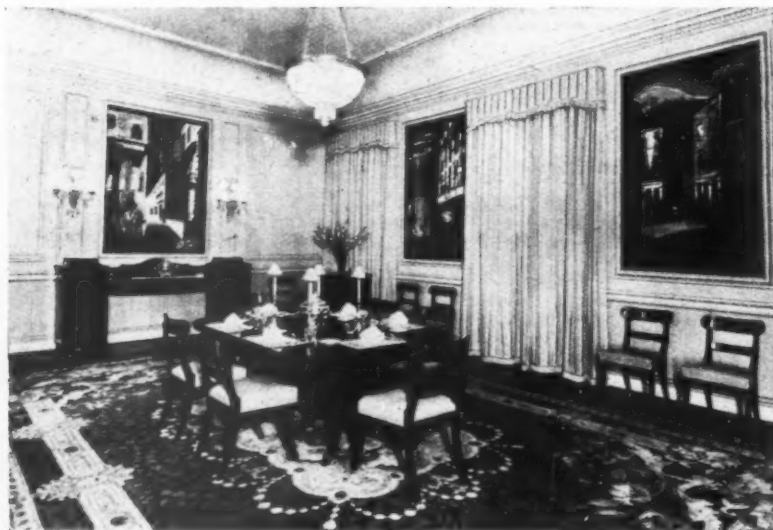
### Exhibition of South Bank's History

The LCC have decided to hold an exhibition illustrating the history of the South Bank at the County Hall during the Festival of Britain. The area is rich in historical associations, and among the articles to be loaned by institutions, firms and private persons will be seventeenth-century silver-gilt plate from Southwark Cathedral; thirteenth-century breviaries and illuminated manuscripts from Lambeth Palace, and Dr. Samuel Johnson's chair. The exhibition will cost about £12,105.

# EMBASSY AT RIO DE JANEIRO



The new British Embassy at Rio de Janeiro, which has just been completed at a cost of about £400,000, is the first to be built by the British Government since the war. The scheme originally prepared by Robert R. Prentice in 1938 was not carried out. In 1944 a revised programme was drawn up and Mr. Prentice was asked to prepare sketch plans and elevations in collaboration with the MOW. The plans were approved in 1946 and the foundation stone was laid in March, 1947. H.M. Ambassador to Brazil, Sir Neville Butler, K.C.M.G., C.V.O., took up residence recently. Above, main frontage. Below, the private dining room, showing three of the five panels painted by John Piper. (Photographs by MOW, Crown copyright reserved.)



## DIARY

**Exhibition: William and Mary and Their Time.** At V and A Museum. (Sponsor, Arts Council.) Weekdays, 10 a.m. to 6 p.m.; Sundays, 2.30 p.m. to 6 p.m.

UNTIL AUGUST 20

**Building Methods: East and West.** Prof. J. D. Bernal. BBC Third Programme. July 9, 8.30 p.m. Repeated on July 11, 11.30 p.m.

JULY 9 AND 11

**The Social Problems of Housing.** By A. Collis. At the Housing Centre, 13, Suffolk Street, S.W.1. 6 p.m.

JULY 11

**This Way to the Tomb.** Play by Ronald Duncan. At 34, Bedford Square, W.C.1. Presented by AA Dramatic Society. 7.30 p.m.

JULY 11, 12, 13

**Dry Rot and Woodworm Exhibition.** North-West Gas Board, Fishergate, Preston. (Sponsor, DSIR.)

JULY 12-20

**Building Industry Productivity Team Meeting.** R. O. Lloyd, R. H. Matthew, W. J. Clarke. At Houldsworth Hall, Deansgate, Manchester.

JULY 12

**Annual Prizegiving at AA.** Prizes to be presented by Frank Lloyd Wright. 3.30 p.m. Exhibition of students' work. Daily, 10 a.m.-6 p.m. Saturdays, 10 a.m.-2 p.m. Open until July 27, 34, Bedford Square, W.C.1.

JULY 14



*This feature covers aspects of legislation, parliamentary news or statutory rules and regulations which are of special significance to the architectural profession.*

## ERNEST WATKINS

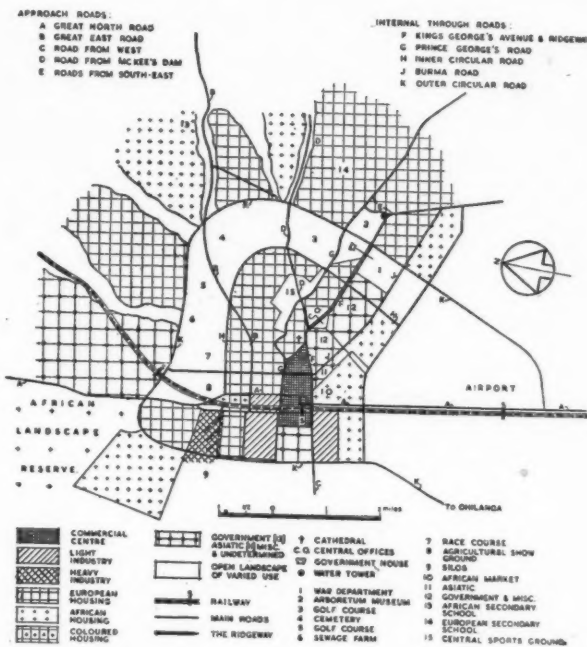
### The Architect and Current Affairs

The report of the Committee headed by Sir Ernest Gowers on Houses of Outstanding Historic or Architectural Interest suggests the establishment of two new statutory bodies, one for England and Wales, the other for Scotland. These bodies, it is proposed, would be given the widest degree of autonomy. Each would have the duty to "designate" houses and buildings worthy of support, and the support to be given would consist of cash grants, expert advice and help in repair and maintenance, and relief in some degree from taxation. The combined effect of these plans would be that the owner and occupier of a designated house would be enabled to continue to live in it and to maintain both the fabric of the house and its essential furnishings as an inhabited house. In exchange for that aid he should give the public the right to see and enjoy a building which is part of their national heritage.

The Committee also suggests that the proposal should be tied up with the existing National Land Fund, set up by the present Minister of Town and Country Planning when he was Chancellor of the Exchequer, which now has a capital of £53,000,000 and an income of some £900,000 a year. That would provide the new bodies with at least the nucleus of a financial backbone. The new bodies would act as advisers to the planning authorities of the areas so far as these properties are concerned and they would, it is suggested, take over responsibility from the Ministry of Works for those inhabited houses that are already ancient monuments.

The report is courageous because it advocates the establishment of autonomous bodies entitled to spend public money, as does the Arts Council, without any check apart from budgetary control. There should be no clash of interest between these bodies and the National Trust, for the Trust is unable to save or protect inhabited buildings unless their owners are in a position to endow them.

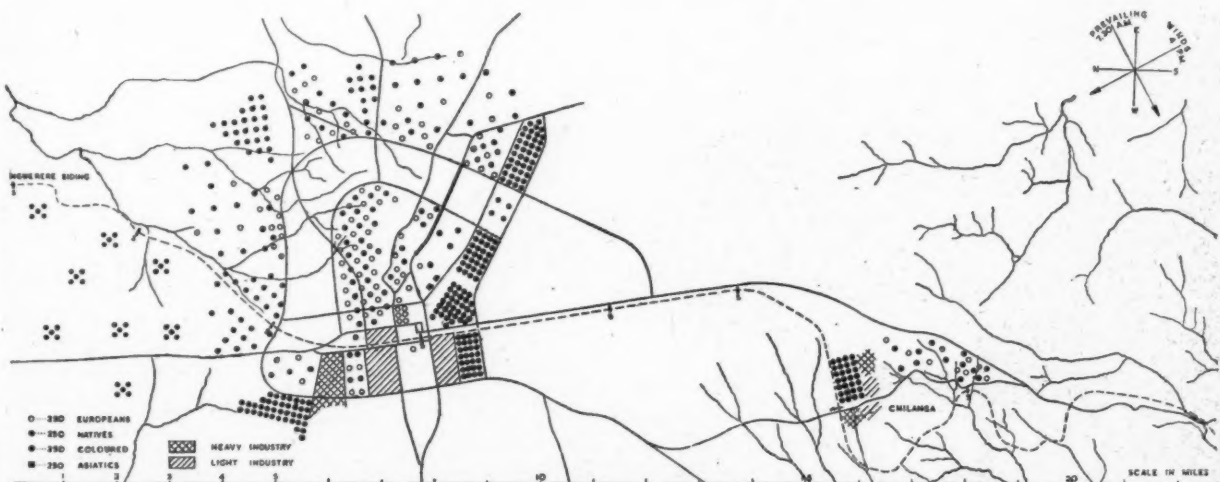
## PLAN FOR MULTI-RACIAL SOCIETY AT LUSAKA



Lusaka as proposed.

The town plan for Lusaka, capital of Northern Rhodesia, by G. A. Jellicoe, was designed with an eye to the probable increase within the Lusaka Region from the present European population of 4,000 to 25,000 persons; and from the present native population of 40,000 to 100,000 persons. The plan was approved in principle and adopted by the Lusaka Management Board, at its meeting held on April 26, as a "development plan" to guide the Board during the next few years. It is not proposed to give this, or any, plan statutory effect as it is considered necessary to retain flexibility in a mixed community which is expanding very rapidly. The plan is based on the need for the "associated and

parallel development" of European and native. It is said that the native is now well-disposed and naturally clean, and that precautions in regard to behaviour and health have been concealed within the plan in order that he shall not be given an unjust feeling of inferiority. The planner has recognized the need to create "a single organism by closing the existing physical gap between commercial and residential quarters, and recognising in the organism the separate functions of "Crown and Town." He has aimed at establishing a self-supporting community. It is not intended to burden the town with more non-productive buildings and landscape than it can maintain. Nor will Lusaka be permitted to become primarily an industrial city. The plan takes into consideration the need to create for the European a landscape as stimulating and vivid as that of his own country. It is stressed that within this framework the native must be provided with something of his own background of sky and forest to prevent him from feeling unsettled. The European population of Lusaka has more than doubled itself within the last three and a half years and statistics show that the proposed population might well be reached in twenty-five years. Physical expansion could then be carried out by building upwards in the central area, developing surrounding neighbourhoods into high-density towns and adding to buildings on light and heavy industrial sites. The proposed arrangement of housing, industry, roads, etc., is shown above left, and the proposed distribution of population is indicated below. It is intended that the population shall be disposed as follows:—North of Lusaka, no Europeans, 10,000 natives; Lusaka, 22,500 Europeans, 80,000 natives; Chilanga, 2,500 Europeans, 10,000 natives.



The Lusaka Region: proposed distribution of 25,000 Europeans and 100,000 natives. The native townships, which seem dense on the diagram, have a population of about 25 persons per acre gross. The 10,000 natives between Lusaka and Ngwerere siding are in scattered townships whose location and size can only be determined when the demand arises. The distribution in Chilanga is equally tentative.



## SCHOOL

at ORMESBY, NORTH YORKSHIRE  
designed by DENIS CLARKE HALL

The new one-form entry junior mixed and infant school at Ormesby is the first school to be built by the North Riding County Council under the 1944 Education Act. It was opened on June 22 by Sir John Maud, Permanent Secretary, Ministry of Education. The building, which replaces the former C of E school, is to serve a rapidly expanding village.

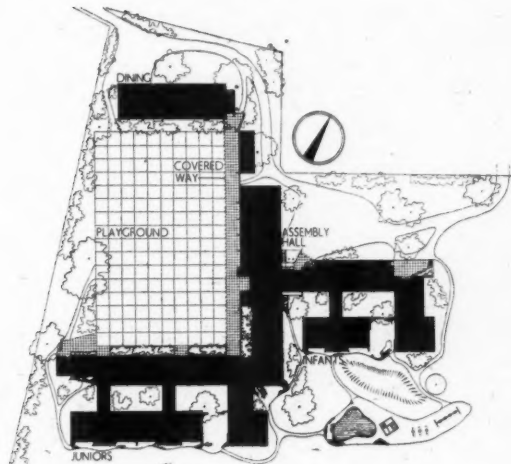
*Playground with assembly hall on the left.*



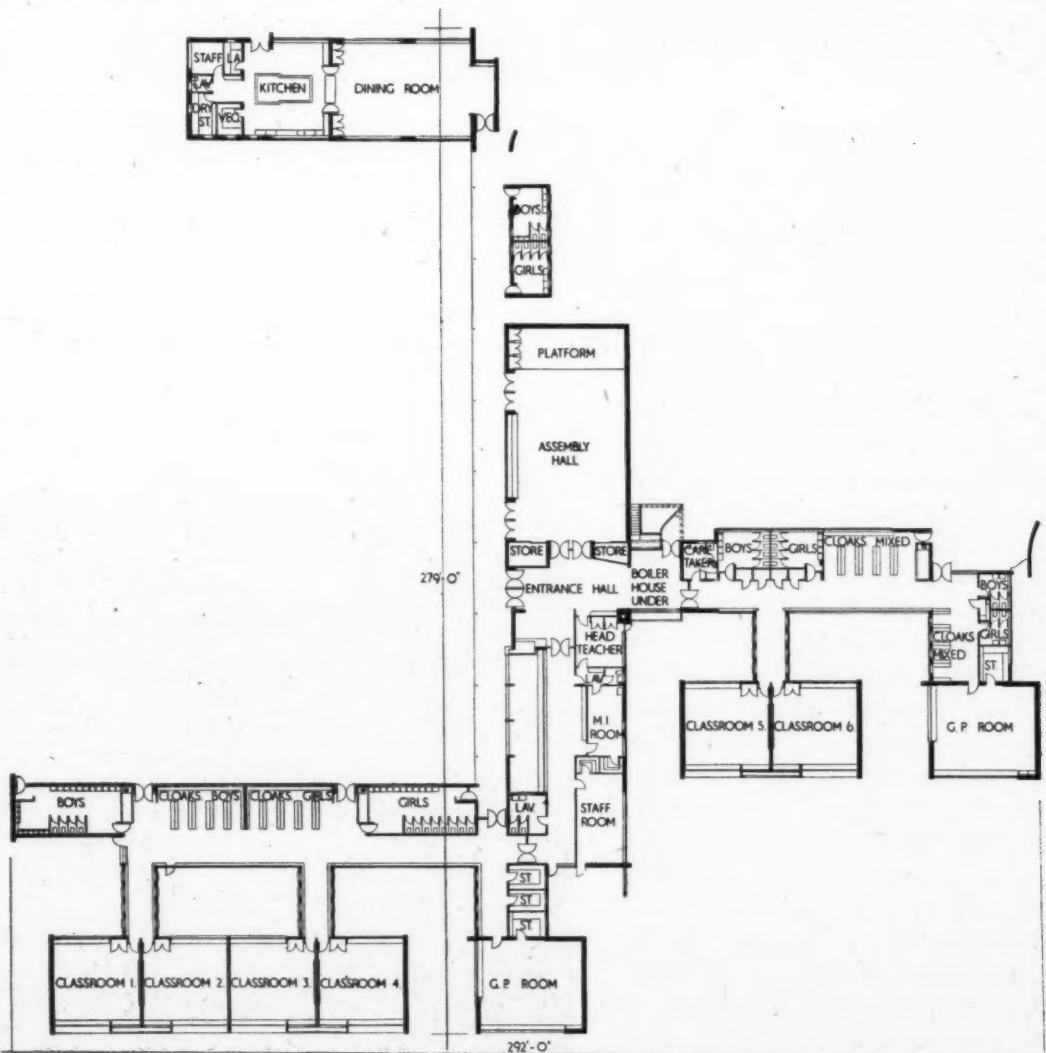


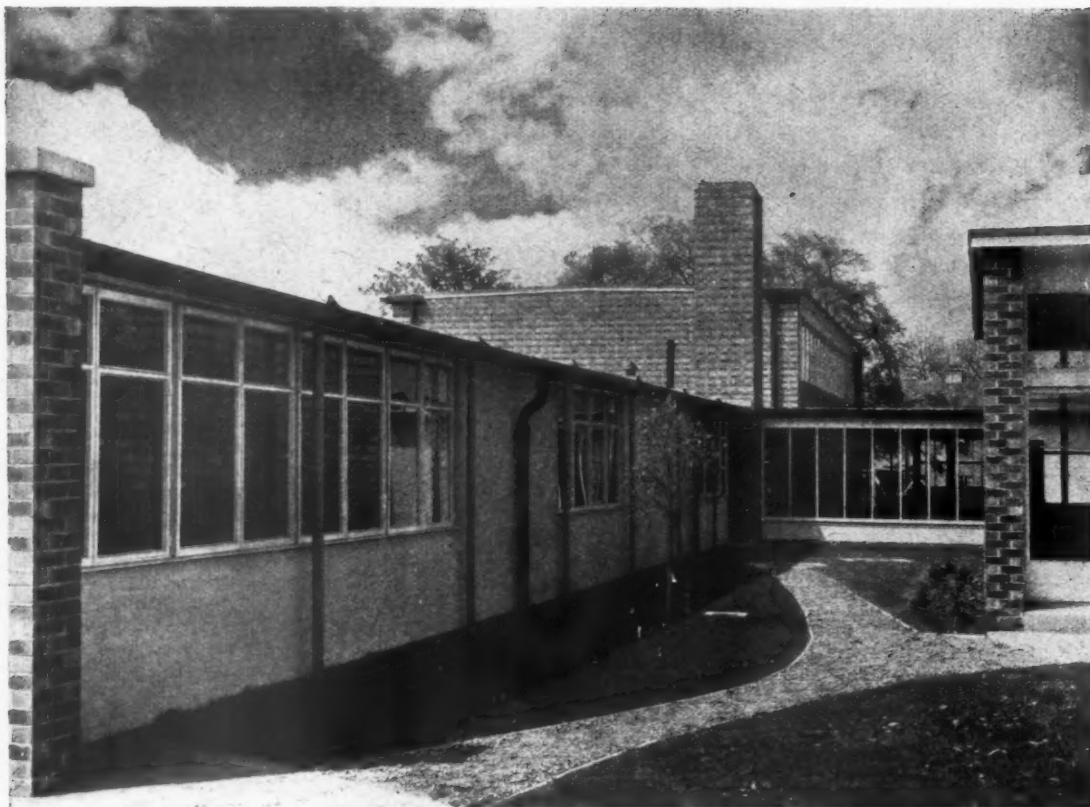
**SITE.**—The building is placed in the north-west corner of the site to reduce the length of service roads and services and to give a maximum area of playing fields. There is a good view to the south-east which can be seen from all the classrooms.

**PLAN.**—There are three main groups of buildings: the infants' department, consisting of two classrooms; the junior department, consisting of four classrooms, with general purpose room, cloakrooms and lavatories in each block; and a central area, common to both departments, consisting of administrative rooms, entrance hall, assembly hall and covered access to the dining hall. In the junior



Site Plan

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



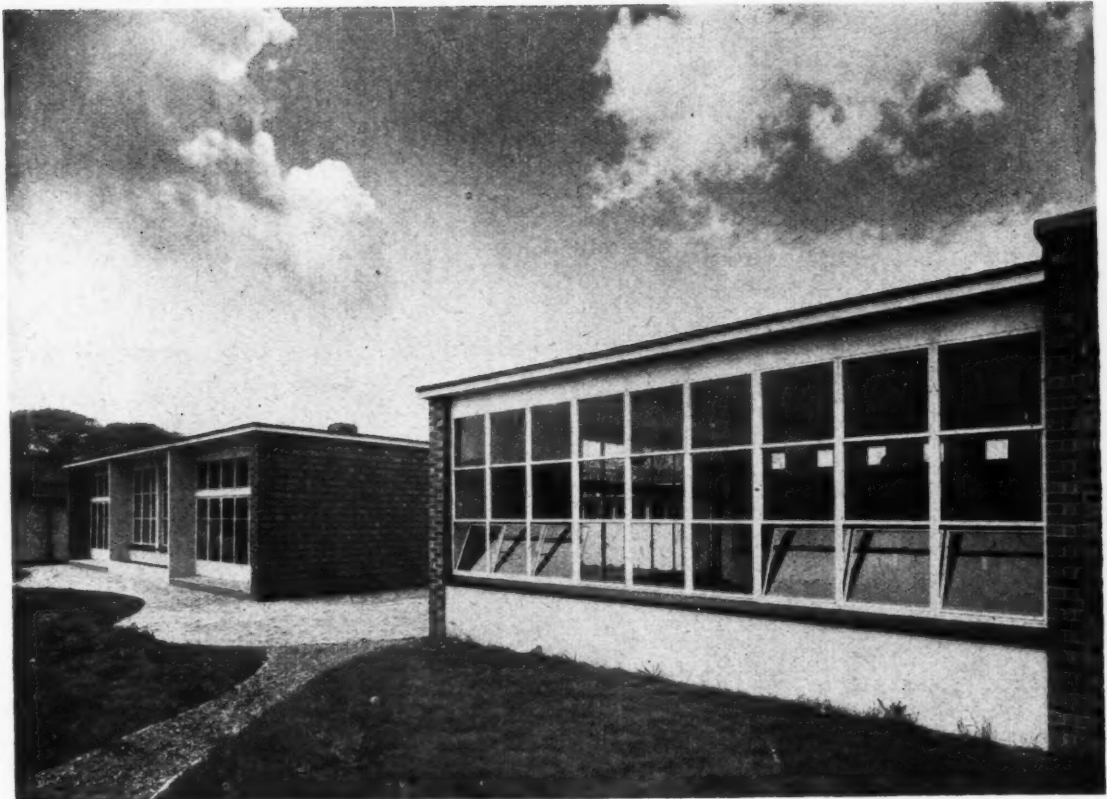
*Above, looking north-west towards the entrance hall with staff blocks on the left. Below, dining hall looking towards the servery.*

## SCHOOL

at ORMESBY, NORTH YORKSHIRE  
designed by DENIS CLARKE HALL

school block the classrooms are approached from the main corridor by secondary corridors and are separated from the main circulation area by semi-internal courts which are to be planted with small trees and shrubs. These courts serve the dual purpose of facilitating cross lighting and ventilation to both classrooms and corridor and act as a sound barrier between the classrooms and the main circulation. Outside the general purpose room is a paved teaching area. All classrooms have sliding-folding doors opening to the south-east. The lavatory and cloakroom accommodation is approached directly from the playgrounds as well as from the main circulation area. The cloakrooms are, in fact, recesses in the corridors, but they can be screened off later if necessary. Drying cupboards are installed. Top lighting is provided in cloakrooms and lavatories to give cross ventilation. The infants' block is planned as a similar unit except that the general purpose room has lavatory and cloakroom

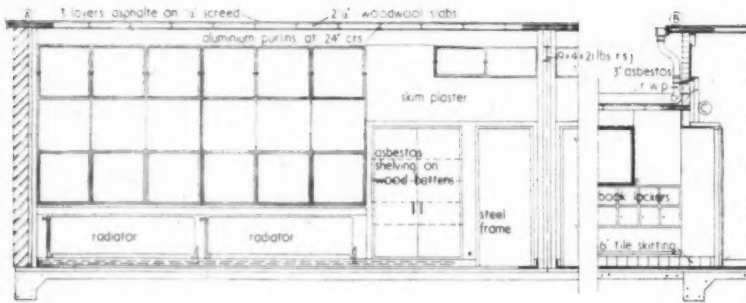




*Above, infants' general purpose room and classrooms beyond, from the east. Below, infants' general purpose room.*

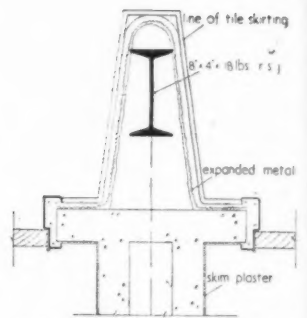


accommodation attached so that it may be used for infants' reception. As it was found uneconomical to plan this block with direct access to the lavatories from the playground, separate lavatories are provided adjoining the playground. In the communal block, the entrance hall is centrally placed and waiting space for visiting parents is provided. The assembly hall, which can seat the entire school, has a platform and chair storage space. The hall can be opened upon the playground side and lighting and cross ventilation is provided by means of continuous windows at a high level on both sides. The administration block is placed so that it gives the most direct access and supervision to both sections of the school. The medical inspection room has a waiting area with seats. There is a paved terrace opening from the staff room. The dining room, which is placed near the secondary entrance, seats 312 pupils in two sittings. The kitchen accommodation fulfils MOE requirements.

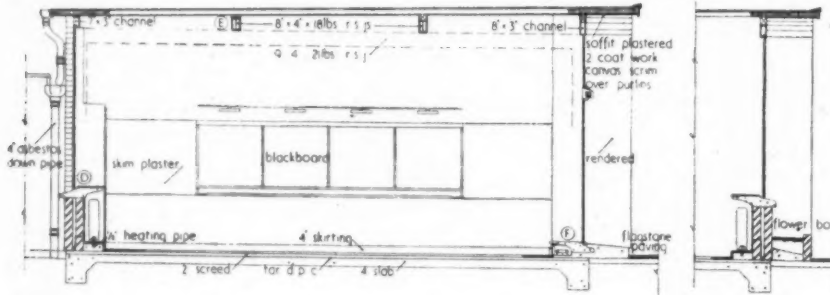


Section A-A

Section B-B

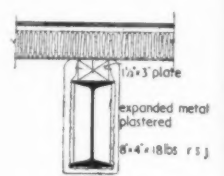


Detail at G [Scale: 1/2"=1'0"]

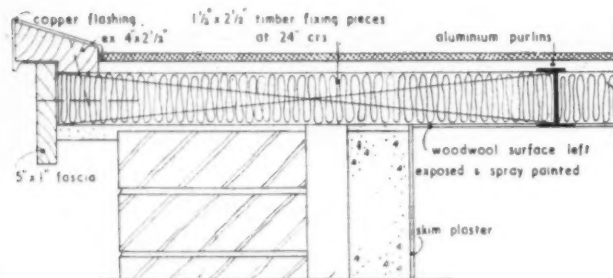


Section C-C [Scale: 1/2"=1'0"]

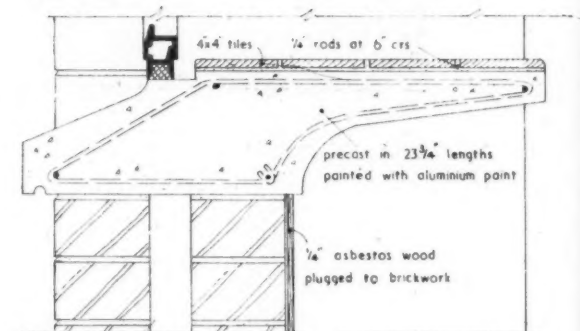
Section D-D



Detail at E [Scale: 1/2"=1'0"]



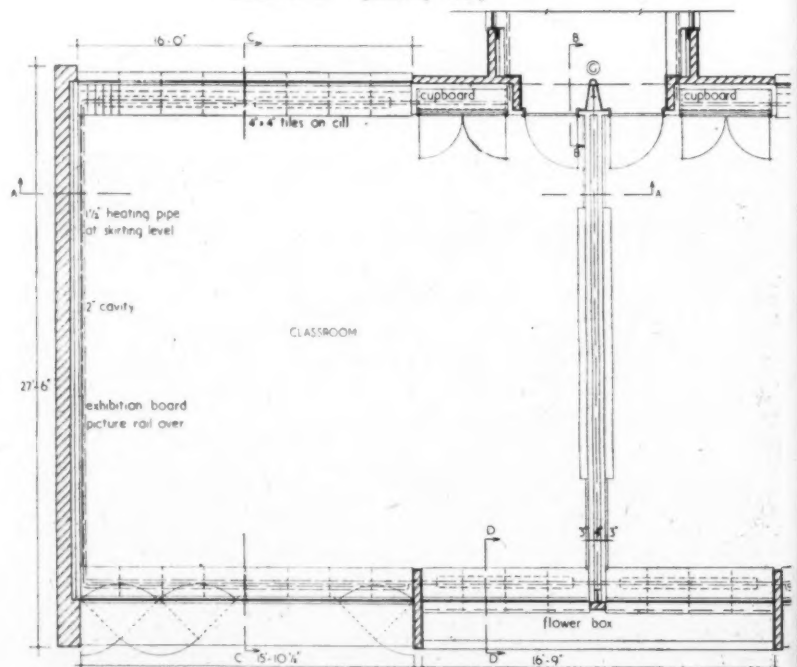
Detail at A [Scale: 1 1/2"=1'0"]



Detail at D [Scale: 1 1/2"=1'0"]

## SCHOOL

at ORMESBY, NORTH YORKSHIRE  
designed by DENIS CLARKE HALL

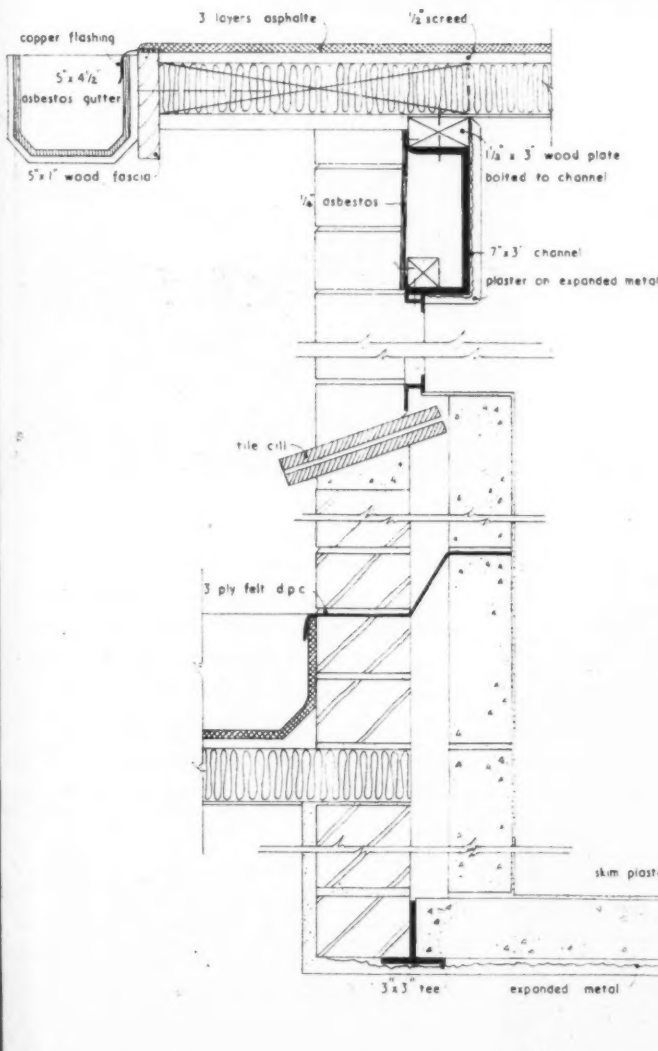


Plan of typical classroom [Scale: 1/2"=1'0"]





Typical classroom.



Details at B and C [Scale: 1 1/2" = 1'0"]

**CONSTRUCTION.**—The welded steel portal frame has site joints at points of contraflexure, brick load bearing cavity walls and breeze block internal walls. The roofs have aluminium purlins.

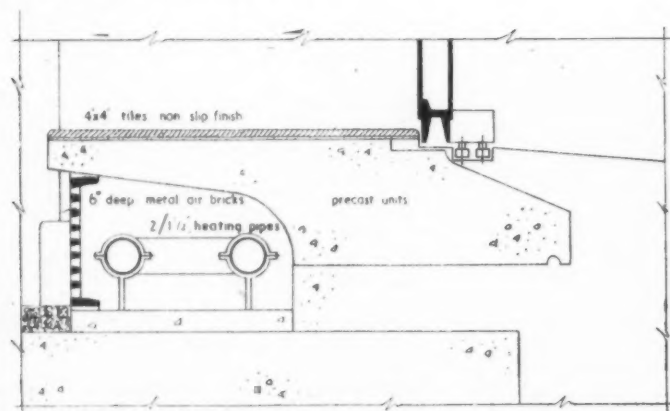
**FINISHES.**—Externally, the walls are either of local facing bricks or of common bricks finished with stone paint. Woodwork, steel windows and sliding-folding doors are painted white and the external steel columns are crimson, deep blue or chrome yellow. Internally, walls are plastered and finished with flat oil paint. The general colour treatment is too complicated to be described in detail. One colour scheme used in a classroom is as follows:—back wall, mauve; blackboard wall, pink; ceiling, blue-grey; doors and beams, yellow. Assembly hall:—Platform wall, grey; panels below windows, pale pink; walls below windows, light terra-cotta; back wall and ceiling, gorse yellow; main frames, deep blue; subsidiary frames, deep



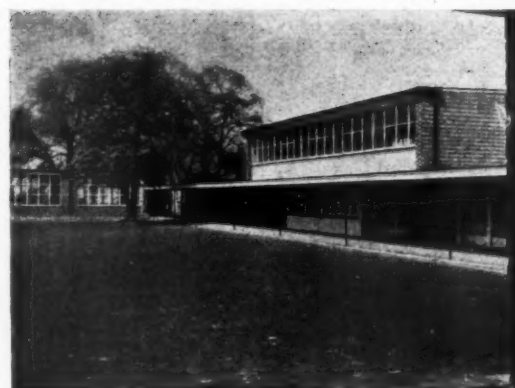
*Left, assembly hall. Below, from north-east: dining hall on left and assembly hall. Bottom left, approach road with entrance on the left.*

## SCHOOL

at ORMESBY, NORTH YORKSHIRE  
designed by DENIS CLARKE HALL



Detail at F [Scale: 1 1/2"=1'0"]



red. Heating pipes are deep crimson. Ceilings are of exposed wood wool. Floors are of a non-magnesite composition and coloured concrete tiles. These tiles are blue in halls and corridors, and red in cloak-rooms and lavatories.

**SERVICES.**—There is a low-pressure hot water heating system and gas storage heaters for the water supply.

**COST.**—The price per foot cube was 2s. 7½d. for the building and 2s. 9½d. for building and site works, giving a contract price of £35,984, or £114 per place. The furniture and equipment cost £2,500.

The general contractors were Messrs. Norman Stonehouse. List of sub-contractors on page 26.

INFORMATION CENTRE · INFORMATION SHEETS  
QUESTIONS AND ANSWERS · CURRENT TECHNIQUE  
THE INDUSTRY · PRICES · TECHNICAL ARTICLES

## TECHNICAL SECTION

### SOUND INSULATION

*A report on a lecture by P. H. Parkin to the Acoustics Group on March 16 at the RIBA.*

Mr. Parkin's lecture on sound insulation at the RIBA (a meeting of the Acoustics Group of the Physical Society) did two important things. It gave us measurements of sound insulation in the houses and flats which we have built and are building, and it demonstrated to our very ears what we have done, are doing, and could do.

No description in words can take the place of the demonstrations, but something must be said about them because we should try to get them repeated before wider architectural audiences (and perhaps before the local councils who hold the purse strings). The demonstrations came from one of the BRS mobile laboratories, which was parked outside the RIBA, and showed us the effects of the various standards of insulation which the Station has found in its field measurements in flats. The sound source was the BBC transmission at the time of the lecture and the sound of it entered the Jarvis Hall after it had been reduced electrically exactly as it would have been reduced by real floors and walls. The loudspeakers scattered around the room gave extraordinary reality and obviously conveyed to the audience the meaning of sound insulation far better than it has ever been done before.

#### FACTORY EXAMPLE

For the sake of interest the lecturer added a few noises from other studies having less direct connection with insulation. One of the best of these was recorded in a modern spinning factory. We were told that the strength of the reproduced sound was unable to exceed 95 decibels, but the original was 112 db., apparently about four times as loud. Even so the loudness made the audience cringe, and it was very sobering to consider that architects have the responsibility for erecting buildings in which these things can happen. It appears that in this example the building was a huge shed, and the cost of treatment to bring the noise level down only a few db. would have been enormous. It is to be hoped that this problem, of which we had such a moving glimpse, will itself be the subject of a lecture before long.

#### CAVITY WALLS

This review need not cover Mr. Parkin's discussion about the phon and the decibel, except to say that it would have been nice if he could have shown the relationship in sound. His first new point dealt with what he called the slope of the insulation curve, which is the slant of the graph showing the increasing insulation at successively higher frequencies. Here it was of interest to see that the cavity construction now so widely used for party walls give most of their improved insulation at the higher frequencies rather than at the "boomy" end of the scale.

At first, said Mr. Parkin, he had feared this would mean that the apparent improvement of a cavity wall over a solid would be illusory, but later laboratory studies of the insulation effect showed that it was the average that mattered, not the difference of insulation at high and low frequencies. In other words, the familiar average figures of 50 or 55 db. have been proved to have the meaning everyone hopefully has given to them.

The core of the lecture was the table (below), showing the insulation values, measured in practice, for a wide variety of well-known constructions. It is surprising to find the best value—over 60 db.—is for the party wall of one of the widely used non-traditional house types. At this level even a loud radio is inaudible in the next house.

Insulation db.	Construction	Effectiveness
65	Detached houses.	
64		
63		
62	Four-leaf concrete wall.	
61		
60		Loud radio inaudible.
59		
58		
57	24 in. solid stone wall.	Loud radio just audible.
56	11 in. cavity brick wall.	Normal radio inaudible.
55		
54		
53		
52		
51		
50	9 in. brick wall; also 11 in. by 3 in. wood-joint floor, 6 in. sealed pugging, thick lath and plaster ceiling.	Normal radio just audible.
49	5 in. concrete floor + floating raft or + "suspended ceiling."	
48		
47	6 in. solid concrete wall.	
46		
45	5 in. concrete floor; also 4½ in. brick wall.	Loud speech just intelligible.
44	Joist floor, pugging, floating raft, plaster ceiling.	Melody recognisable.
43	Joist floor, pugging, lath and plaster ceiling.	
42		
41	Joist floor, pugging, plaster ceiling.	
40		
39	Joist floor, floating raft, plaster ceiling.	Normal speech just intelligible.
38		
37		
36		
35	Joist floor, lath and plaster ceiling.	Normal speech intelligible.
34		
33	Joist floor, plaster ceiling.	
32		
31		
30	Joist floor, board ceiling.	Equivalent to quiet radio in same room.
29		
28	Non-traditional party wall as originally designed.	

The next best value—to the shame of our vaunted modern technology—occurred in old Scottish tenements, with walls of 2 ft. solid stone. The only thing we can say to redeem our generation is that the 11 in. cavity wall as now recommended is almost as good, and certainly a great deal cheaper. "At these levels a loud radio is just audible but a normal radio is inaudible." We had another surprise to find that even the floors of the old Scottish tenements were pretty good—exactly as good as our orthodox 9 in. brick party walls. The old Scottish flats in fact, come nearer to the BRS recommended standards than anything yet built in our own time.

(It was at this point that Mr. Parkin gave his first demonstration—the transmitted sound being just audible at this level of insulation).

### FLOATING FINISHES

The table shows that the modern concrete floor with floating concrete or boarded finish also has an insulation value of about the same as 9 in. brickwork. This is a disappointment. It was hoped to get 55 db. and it is not very easy to see why it doesn't. Mr. Parkin obviously did not think it was indirect transmission which was doing the damage. We must look forward to hearing more about this.

The same is true—and most regrettably true—of the joist floors, pugged and treated with a floating finish, all as recommended so as to obtain 55 db.; but which fell below this, and Mr. Parkin said that this was the one type of construction which in the field gave results substantially below laboratory measurements. The Station is obviously perturbed about this and is trying to find out what is going wrong. Until they do, their recommendation is that joist floors should not be used in flats. This is a hard fact, but few who heard the demonstrations could doubt the rightness of it.

### UNTREATED FLOORS

All the same, joist floors so treated are far better than the same thing untreated, which have insulation values in the low 30's. The speaker said that at a rough guess BRS would

expect to find about half the total of post-war flats with joist floors of this low value, and even the mask of scientific detachment failed to cover the real feeling of a scientist about people who did this sort of thing. One got the feeling that untreated joist floors as party constructions ought simply to be banned, without any elaborate ifs and buts. Is not this up to the Ministry of Health? They started all this study of sound insulation, but they do not seem to do much about it in practice.

Most of the lecture concerned air-borne sound, and Mr. Parkin contented himself on impact sound by saying quite simply that no serious practical problem remained. It was simply a question of doing what was recommended. Floating floors work and are cheap enough for some authorities to use. If that is the case, they are cheap enough for all.

Below,  
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site works,  
per place.

Norman  
page 26.



# CURRENT MARKET PRICES OF MATERIALS

BY DAVIS, BELFIELD AND EVEREST, Chartered Quantity Surveyors

Rates of Wages last rose on July 3, 1950, and are now as follows:—

## LONDON DISTRICT

Within 12 miles radius .. .. .

From 12-15, " " .. .. .

## LIVERPOOL and DISTRICT

## GRADE CLASSIFICATIONS

	A	A <sup>1</sup>	A <sup>2</sup>	A <sup>3</sup>
Craftsmen..	2s. 10½d.	2s. 10d.	2s. 9½d.	2s. 9d.
Labourers ..	2s. 5d.	2s. 4½d.	2s. 4d.	2s. 3½d.

Craftsmen.

Labourers.

3s. 0d.

2s. 6½d.

2s. 11½d.

2s. 6d.

3s. 0d.

2s. 6½d.

*T. Davis*

F.R.I.C.S., F.I.Arb.

Prices vary according to quality and the quantity ordered. Those given below are average market prices and include delivery in the London area, except where otherwise stated, but do not include overhead charges and profit for the General Contractor.

## CONCRETOR

### Cements

		6 tons and over	In 80-ton freights F.A.S. Safe Wharf in River Thames London Area.
* Portland to B.S. 12	per ton	62/6	60/-
* Rapid hardening to B.S. 12	"	68/6	66/-
† Aquacrete water repellent	"	94/-	
Snowcrete....	"	(Minimum 1-ton lots) 233/-	(paper bags free)

Prices for Portland Cement include for delivery to Charing Cross.

\* In non-returnable paper bags or jute sacks charged at 8/- net per ton or 6d. each net per bag in lots of less than 1 ton.

\* In returnable jute sacks charged at the rate of 35/6 net per ton of cement or 1/9½ net per sack in lots of less than 1 ton. Credit on return at 1/6 net per sack.

† Supplied in packages charged 8/- per ton extra.

### Aggregate and Sands, etc. (Full Loads)

1½" Unscreened ballast to B.S. 882, Table 5	per yard cube	15/5
½" (Down) Washed, crushed and graded shingle to B.S. 882, Table 2	per yard cube	14/5
¾" Sharp washed sand to B.S. 882, Table 3	per yard cube	10/4
Brick hardcore	per yard cube	6/3

(For Sands for Bricklaying and Plastering, see respective trades)

### Reinforcement

Home trade maximum basis price for mild steel rods to B.S. 785, ½" diameter and upwards, ex mills delivered to station or siding .. .. . per ton £21 13 6

Extras for:—

Under ½" to ¾" diameter	per ton	15 0
Ditto ¾" and over ¾" diameter	per ton	£1 2 6
¾" and over ¾" diameter	per ton	£1 10 0
¾" and over ¾" diameter	per ton	£1 17 6
¾" and over ¾" diameter	per ton	£2 5 0
¾" and over ¾" diameter	per ton	£2 12 6
¾" diameter	per ton	£3 0 0
Under ½" to ¾" diameter	per ton	£4 10 0

### Fabric Reinforcement

Steel wire mesh fabric to B.S. 1221, Part A per yd. super.	6/0½	3/5½	1/9½	1/1½
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## BRICKLAYER

### Common Bricks

Third stocks	per 1,000	112/8
Rough stocks	per 1,000	132/8
Mild stocks	per 1,000	184/8
Sand limes	per 1,000	89/-
Phorpres pressed Flettons	per 1,000	90/-

### Facing Bricks

Hand-selected sand limes	per 1,000	124/-
Phorpres rustic Flettons	per 1,000	110/-
Stocks, first hard	per 1,000	219/8
Stocks, second hard	per 1,000	209/8
Southwater pressed sandfaced reds	per 1,000	228/6
Dorking pressed sandfaced multicoloured facings	per 1,000	196/6

## BRICKLAYER—(continued)

### Engineering Bricks

Lingfield engineering wirecuts	per 1,000	165/-
Southwater engineering No. 2 (second quality red pressed)	per 1,000	226/-
* Blue pressed bricks to B.S. 1301	per 1,000	160/-

\* Plus 110% plusage, 5 per cent. builders cash discount.

### Glazed Bricks

	Best quality	Seconds
	£ s. d.	£ s. d.
White, Ivory or Brown, 9" × 2½" × 4½"		
Headers	per 1,000 39 10 0	37 10 0
Stretchers	per 1,000 40 0 0	38 0 0
Prices for glazed bricks + 27½%, seconds. + 32½%, bests.		

### Limes and Sands

		1 ton lots.
† Lime, greystone, to B.S. 890	per ton	90/6
† Lime, chalk, ditto	per ton	90/6
* Lime, hydrated, ditto	per ton	93/-
Washed pit sand to B.S. 1200	per yard cube	16/4

\* Including paper bags.

† Hire of jute sacks charged at 1/6 and credited at 1/6. If left, charged at 1/9.

### Sundries

10 s.w. gauge galvanized butterfly type wall ties to B.S. 1243	per 1,000	87/3
Wall ties, galvanized, 8" × ½" × ½", to B.S. 1243	per cwt.	68/6
Damp proof course slates: Imported Welsh		
Size 14" × 9"	per 100	54/- 61/3
.. 14" × 4½"	per 100	26/3 31/6
Hessian base bitumen damp course to B.S. 743	per yard super	4/6
	9" × 3" 9" × 6" 9" × 9"	
Terra-cotta airbricks	each	1/- 2/- 5/4
Galvanized cast-iron airbricks	each	2/7 4/2 6/10
Galvanized cast-iron hit-and-miss ventilators	each	2/8 5/1 6/6
Buff terra-cotta chimney 1' 0" 1' 6" 2' 0" 2' 6" 3' 6" 5' 0"	each	5/7 6/8 9/8 12/10 29/5 50/2
Wall reinforcement supplied in standard rolls containing 25 yards lineal		
12" wide black japanned	per roll	3/-
12½" wide black japanned	per roll	3/9
† Greater widths pro rata 2½" price, carriage paid on orders of £7.		

Discount for quantities.

### Partitions, etc.

	2"	2½"	3"	4½"
Breeze to B.S. 492	per yard super	3/2	3/8	4/2 5/6
Hollow clay to B.S. 1190 (keyed)	per yard super	3/3	3/6	4/2 5/3
Moler (keyed)	per yard super	7/6	9/-	10/- 11/3

## PAVIOR

2" coarse gravel for paths	per yard cube	17/6
¾" fine ditto	per yard cube	19/-
Clean granite chippings to B.S. 1201, Table 4 (in 5-ton loads)	per ton	37/6
Red quarry tiles, 6" × 6" × ½", to B.S. 1286	per yard super	11/6
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	10/-
Buff quarry tiles 6" × 6" × ½", to B.S. 1286	per yard super	13/6
Ditto 6" × 6" × ½", to B.S. 1286	per yard super	11/-
Hard red paving bricks, 2"	per 1,000	336/9
Ditto 1½"	per 1,000	319/9



## DRAINLAYER

## Clay Land Drain Pipes to B.S. 1196

Pipes in 12" lengths	per 1,000	3"	4"	6"
		148/-	191/-	396/-

## Salt Glazed Stoneware Pipes and Fittings

	Orders for 2 tons and over	Standard List + Orders under 2 tons 100 pieces upwards	Orders under 2 tons less than 100 pieces
Seconds Quality	35% less	15% 55% less	15% 65% less
Best Quality	35%	55%	65%
British Standard Quality	42½%	62½%	72½%
Tested Quality	60%	80%	90%
British Standard Tested	67½%	87½%	97½%

## Cast Iron Drain Pipes and Fittings

Socket and spigot pipes to B.S. 437 :-	Weight per 9 ft	Size	9 ft.	6 ft.	4 ft.	3 ft.	2 ft.
			per yd.	per yd.	each	each	each
1	1	17	4"	16/8	18/4	29/4	22/5
2	0	1	6"	24/11	29/5	47/1	37/7
3	3	21	9"	45/-	58/8	101/2	77/3

## Tonnage Allowances :-

Orders up to 2 tons nett.

*Bends (short radius) as Fig. No. 4	each	4"	6/3	13/-	40/-
*Single junctions as Fig. No. 18	each	11/-	22/6	69/-	
*Intercepting traps as Fig. No. 33	each	30/-	50/-	123/-	
*Gullies ordinary trapped "P"	each	14/6			
*Extra for 4" vertical back inlet	each	4/3			
*Grease gully trap	each	121/-			

\* These prices are subject to 86% plusage.

## Channels in Brown Glazed Ware.

Standard list + same discounts as "Best" quality salt-glazed Stoneware pipes.

## White Glazed Channels

Orders under 20 pieces. Standard list + 10%.

## \*Manhole covers and frames

	Size of load	Unit price
C.I. coated double triangular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade A	each	35 tons 110/-
C.I. coated circular manhole cover and frame, 22" dia. clear opening to B.S. 497, Grade B.	each	5 tons 60/-
	Size of load	Single seal Flat type
Coated manhole cover and frame to B.S. 497, Grade C, 24" x 18"	each	1 ton 27/- 40/-
Galvanised ditto, 24" x 18"	each	1 ton 42/- 60/-
Coated manhole cover and frame, to B.S. 497, Grade C, 24" x 24"	each	1 ton 38/6 58/6
Galvanised ditto, 24" x 24"	each	1 ton 62/- 89/6

\* Subject to plus 7½% on galvanised.

## MASON

## Yorkstone

Building quality Robin Hood and Woodkirk Blue Stone.

Blocks scrapped, random sizes	per foot cube	8/11
Add for blocks to dimension sizes	per foot cube	1/1 (each dimension)
Templates with sawn beds, edges rough (up to 4 ft. super and not over 2' 6" long)	per foot cube	10/-
Templates with sawn beds, sawn one edge, per foot cube		11/6
Price f.o.r. Yorkshire, railway rate to London Station per ton. (Minimum 4-ton loads)		45/-

## Bath Stone in random blocks

Monk's Park	per foot cube	5/7
St. Aldhelm Box Ground	per foot cube	6/7
Delivered on rail at South Lambeth station.		

## Portland Stone in random blocks, average 20 feet

Whitbed	per foot cube	6/4½
Delivered on rail at Nine Elms Station.		

## MASON—(continued)

## Artificial Stone to B.S. 1217

4½" x 4" Sill, sunk, weathered, throated and grooved	per foot run	2/6
9" x 3" Ditto	per foot run	3/6
2" x 12" Coping, weathered and twice throated	per foot run	3/3
3" x 12" Ditto	per foot run	4/9
5" x 12" Saddleback coping, twice throated	per foot run	7/6
6" x 12" Ditto	per foot run	8/6

## SLATER, TILER AND ROOFER

## Slates

16" x 10" Best Bangor Slates to B.S. 680	per 1,000 actual	£ 43 0 0
20" x 10" Ditto	per 1,000 actual	£ 63 0 0

## Tiles

Hand-made sandfaced 10½" x 6½" red roofing tiles	per 1,000	250/-
Machine-made sandfaced best red tiles with continuous nibs, 10½" x 6½"	per 1,000	215/-
Berkshire hand-made red Pantiles, 14½" x 10"	per 100	93/-
Concrete plain tiles, 10½" x 6½"	per 1,000	141/-
Ditto interlocking tiles, 15" x 9"	per 1,000	480/-

## Asbestos-cement

*6" corrugated sheets, grey	per yard super	4/10
*Prices are for minimum two-ton loads, and are subject to 2½% discount.		

## Felt

Reinforced roofing felt to B.S. 747	per yard sup.	1/3½
Roofing felt (1-ply bitumen) to B.S. 747, Part I	per yard sup.	1/1½
Bituminous hair felt to B.S. 747, Part II	per yard sup.	2/1½

## CARPENTER AND JOINER

## Wall boards

½" Imported Fibre board	Up to 5,000 sq. ft.	5,000 to 15,000 sq. ft.
(per 100 sq. ft.)	37/6	36/-
½" Imported Hard-board (per 100 sq. ft.)	46/6	45/-
¾" Imported Hard-board (per 100 sq. ft.)	62/6	61/3
*¾" Semi compressed asbestos cement flat building sheets, grey	per yard super	1/9
*½" Ditto	per yard super	2/6
* Prices are for orders of 2 tons and over. Subject to 5% trade discount.		

## Sundries

"Sisalcraft" standard grade	per yard sup.	-/6½
"Sisalcraft" subsoil grade	per yard sup.	-/3½

## Timber

Softwood for Carpentry (average price)	per std.	£75
Softwood for Joinery (ditto)	per std.	£80
Tongued and Grooved Softwood Flooring (ditto)	per std.	£78
First Quality English Oak (ditto)	per ft. cube	25/-
Teak (ditto)	per ft. cube	45/-

## Standard Panelled and Glazed Wood Doors to B.S. 459, Pt. I

Type 4	size 2' 6" x 6' 6" x 1½"	each	45/10
Type 2 x G	size 2' 6" x 6' 6" x 2"	each	54/3
Type 4 x G	size 2' 6" x 6' 6" x 2"	each	56/6
In lots of from 1 to 11 inclusive.			

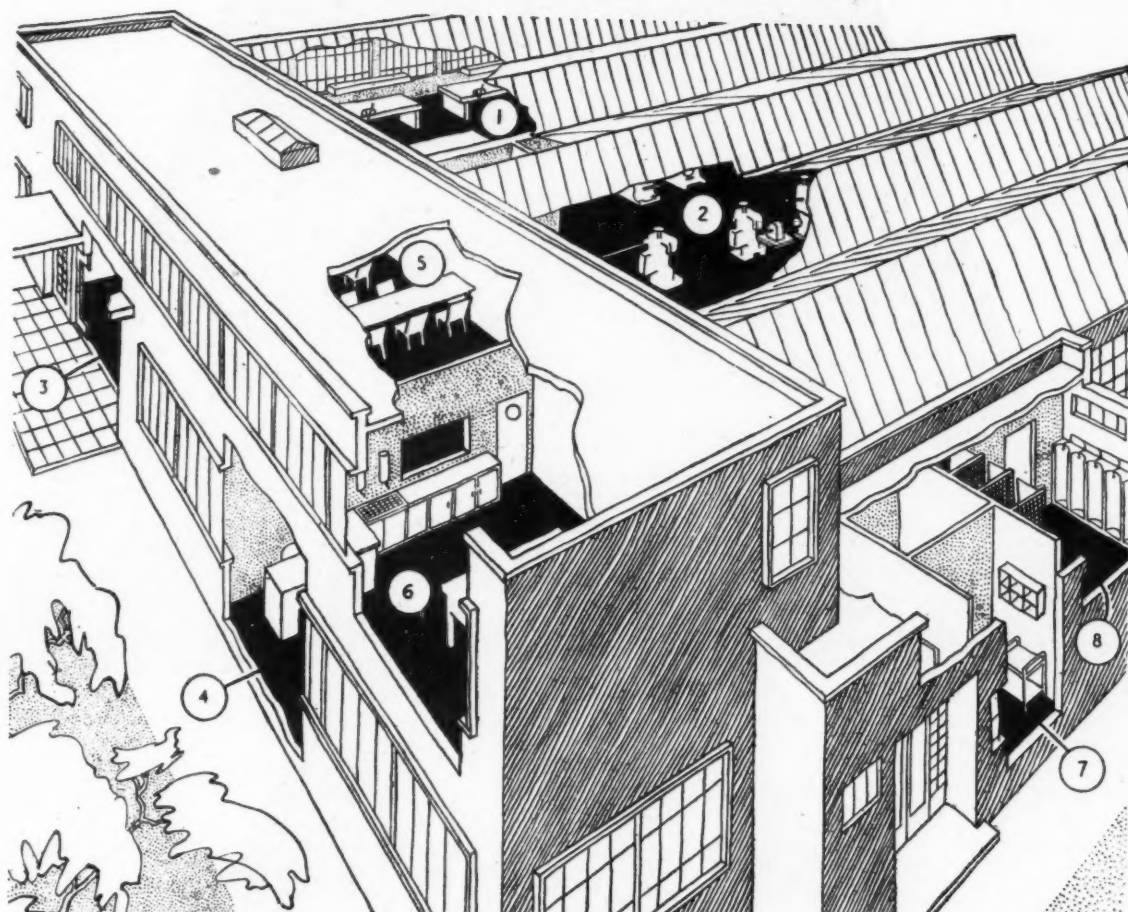
## Standard E.J.M.A. Wood Windows

INP 26	size 2' 6" x 1' 5½"	each	28/11
4V 36	size 3' 6" x 7' 10"	each	125/3
IV 40	size 4' 0" x 2' 2½"	each	35/4
3T 46	size 4' 6" x 5' 11½"	each	125/1
4T 50	size 5' 0" x 7' 10"	each	142/2

## Standard E.J.M.A. Kitchen Units

No. 1	size 3' 0" x 3' 6" x 1' 7"	each	180/4
No. 2	size 3' 0" x 3' 6" x 1' 7"	each	122/7
No. 4	size 3' 0" x 1' 9" x 1' 7"	each	109/3
No. 5	size 3' 10" x 1' 9" x 1' 7"	each	95/5
No. 7	size 6' 6" x 1' 9" x 1' 7"	each	172/3





## FLOOR FINISHES AVAILABLE FOR FACTORIES

The table below indicates the principal floor finishes which in normal circumstances are available for consideration for various parts of a factory. In any particular instance, special factors might weigh in favour of one or other of the alternatives shown. Semtex Ltd. is equipped to advise on all floor finishing problems, and to undertake contracts for all the finishes mentioned other than terrazzo, wood block or granolithic.

(The information panel has been prepared without prejudice to any special claim made by manufacturers of the materials listed).

	SEMASTIC TILES	FLEXIMER FLOORS	RUBBER FLOORS	LINOLEUM	TERRAZZO	QUARRY TILES	GRANO- LITHIC	WOOD BLOCKS
1. LIGHT FACTORY FLOORS	*	*	—	—	—	*	*	*
2. HEAVY FACTORY FLOORS	—	—	—	—	—	*	*	*†
3. ENTRANCE HALLS	*	*	*	*	*	—	—	*
4. OFFICES	*	*	*	*	—	—	—	*
5. CANTEENS	*	*	—	*	*	*	—	*
6. KITCHENS	*†	*	—	—	*	*	—	—
7. FIRST AID ROOMS	*	*	*	*	*	*	—	*
8. LAVATORIES	*†	*	—	—	*	*	—	—

† SPECIAL GRADE AVAILABLE FOR INSTALLATION IN THESE SPACES

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## INFORMATION CENTRE

### 20.183 construction: complete structures

#### STADIUM EXTENSION, WASHINGTON

*Biggest Welding Job?* (Engineering News Record [USA], April 27, 1950, p. 28.)

The existing stadium of the University of Washington, at Seattle, USA, is to be extended by an upper deck covered by a cantilever roof. Concrete foundations on piles will support the new structure independently of the existing stands. All the new steel framing will be welded. Gusset plates and rivets will be eliminated, and 200 tons of steel will be saved, equivalent to a saving in the cost of steelwork of \$40,000, i.e., about £14,000 at the present rate of exchange (which works out at £70 per ton, rather more than here). Better appearance of the welded steelwork, greater strength, and saving of several weeks of construction time are also claimed. It is said to be the biggest welding job ever done in building construction.

### 23.129 heating and ventilation

#### HEATING AND VENTILATING SYSTEMS INSTALLED IN THE NEW HOUSE OF COMMONS

*The New House of Commons.* W. F. Moore. (The Heating and Ventilating Engineer and J. of Air Conditioning, April, 1950, Volume XXIII, No. 274. 1s.)

Description of heating and ventilating systems of the new House of Commons.

The old House of Commons, destroyed by enemy action in 1941, had a most elaborate ventilating system which, in spite of many efforts to improve it, was always highly unsatisfactory. There was a space of 27 ft. between the concrete raft and the floor of the House, and the whole was occupied by the heating and ventilating plant. The new plant is so much more compact that the large part of this space is now used for conference rooms and the like.

The new equipment, for which Dr. Oscar Faber, O.B.E., D.C.L.(Hon.), D.Sc., is consulting engineer, is designed to maintain an inside temperature of 65-70° F., with 50-60 per cent. relative humidity. These standards can be varied. In view of the large variations and sudden changes in occupancy of the various parts of the House, eight different air-conditioning plants are provided, all fed from common sources of heat and cold. Each has a viscous air filter, an electrostatic filter, a finned tube air cooler for sensible cooling or dehumidification, with eliminator plates, a finned tube air heating battery, and humidifying sprays. The various parts are housed in a brick casing, tiled internally. A total of 114,000 c.f.m. is handled.

Heating is by low-pressure hot water at 180° F.; a steam pre-heater battery is provided at each fresh air intake for abnormally cold weather. Calcium chloride brine is used for transmission of cold.

Refrigeration is provided by two 240-h.p. compressors using Freon 12. A large insulated storage cylinder for brine is employed, at a temperature of 26° F. This serves to reduce peak loads on the compressors, and so enables a smaller size to be used than if they had to be sized to deal with peak loads.

Both low-temperature (120° F.) and ordinary radiators and convectors (180° F.) are used in various parts of the building.

Experiments were carried out to determine air distribution on models at the National Physical Laboratory and on a full-scale "mock-up" of two bays of the Chamber at the Earl's Court Exhibition. An important difference as between the old and the new systems is that the main air movement is now horizontal, instead of the vertical current rising from the floor, which over-cooled members' feet. The total volume of air introduced into the Chamber is 24,000 ft.<sup>3</sup>/min., or 8½ air changes per hour. Of this, 6,000 ft.<sup>3</sup> is introduced above head level under the gallery; the remainder comes in through the sloping ceiling, about 3 ft. from the wall. Extract openings are in the high point of the ceiling and also near the floor. An unusual feature is the direction of air flow, which is changed automatically every few minutes; this gives a greater sense of freshness than a continuous flow.

Low-temperature warming panels, to be covered with carpet, are to be placed in the steps.

Although a full automatic control is provided, over-riding manual control is included, so that the engineer can vary the conditions when necessary in advance of requirements, e.g., when there is a sudden change of occupancy of the Chamber. All controls and instruments are in the main control room, whence the engineer can see the interior of the House through a periscope.

The offices and conference rooms have a "double duct" system of ventilation, one duct carrying warm, the other cool, air; each room has a blender which takes the necessary amount of air from either duct, according to occupancy.

Heat is supplied from a battery of oil-fired steam boilers; the hot water for heating is provided by three steam-to-water calorifiers, each rated at 2½ million B.Th.U's./hr. at 60 lb. to the sq. in. One serves the air-conditioning plants, one the direct heating surfaces, whilst the third is a stand-by for either.

### 23.130 heating and ventilation

#### TEXTBOOK ON HEATING AND VENTILATING

*Principles and Practice of Heating and Ventilating.* A. C. Pallot. (George Newnes Ltd. April, 1950. 25s.)

Textbook on heating and ventilating for engineers and engineering students.

This is a commendably complete and up-to-date book on heating and ventilation.

Although primarily intended for engineers, there is in it a great deal of information of use to the architect. Further, as the book is well laid out, he will have but little difficulty in extracting the information he needs. The chapters on insulation, builder's work and heating costs should prove of particular interest.

The illustrations are clear, and some are new, though many, of course, are the manufacturers' hardy perennials; this is inevitable, and one cannot blame the author for it.

The book should prove a very useful addition to the library of any architectural school.

### 24.138 lighting

#### ELECTRIC LAMPS

*Electric Lamps.* Anon. (Published by Lighting Service Bureau. 1950.)

Historical, nature of light, its production, and lamp manufacture; filament lamps; discharge lamps; lamps economics and data. Useful, thorough, illustrated 59 graphs and photographs.

This is a general reference book, not addressed to any single audience. The practising architect is not likely to want it, but it would be a very useful book indeed to teachers. It covers all the main types of artificial light source, describing how they function, how they are made, and how they behave in practice.

### 26.66 services and equipment: miscellaneous

#### ENGINEERING AND UTILITY SERVICES IN RESPECT OF THE FUNCTIONAL REQUIREMENTS OF BUILDINGS

*Engineering and Utility Services.* BS C of P 3—Chapter VII (1950). (British Standards Institution. 4s.)

Code of practice for engineering and utility services in buildings.

A very useful little publication, dealing with numerous subjects and giving information not always available.

The subjects covered are:

Cold Water Supply: quality and quantity and rates of flow to fittings.

Hot Water Supply: quantity, types of installation, rates of flow, and general considerations.

Cooking Installations: space to be allowed for kitchens of various capacities, and general considerations.

Refrigeration: general points, and advice in connection with domestic and industrial installations, especially as to size.

Laundering: necessary provisions in various types of buildings.

Electrical Telecommunication: Public and private telephones; tape machines and teleprinters; sound and vision broadcast reception; bells; sound distribution systems; staff location systems; alarm systems; controlled-time services.

Sanitation: general recommendations, and minimum sanitary requirements of various types of buildings.

Sewage, Rainwater and Solid Refuse Disposal: general points, and particular applications to various types of buildings.

### 26.67 services and equipment: miscellaneous

#### DRAINAGE FOR HOUSING SCHEMES, SCHOOLS, ETC.

*Building Drainage.* BS C of P 301 (1950). (British Standards Institution. 7s.)

New British code of practice dealing with drains and sewers up to 12 in. diameter.

Much useful information is contained in this publication, which is divided as follows:—

1. General: scope, definitions, information to local authority, etc.
2. Notes on materials, BSS's.
3. Design considerations: aim, layout, pipe sizes, the gradients and rates of flow, materials, connections, access, ventilation, support, gullies, interception, grease and petrol traps; manholes, sizes, types, construction, covers.
4. Work off site, including concrete mixed off site.
5. Work on site: general, setting out, excavation, concrete, pipe laying and jointing, manholes, connections, backfilling, reinstatement.
6. Inspection and testing.
7. Maintenance: periodic inspection, cleaning.
8. Tables: rates of flow for self-cleansing action, support and protection of pipes, sizes of manhole, thickness of manhole bases, quantities of jointing materials.
9. Diagrams.

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## THE INDUSTRY

By Brian Grant

### ALUMINIUM FOR STRUCTURAL WORK

In the middle of last week SMD Ltd., staged an interesting demonstration to show the main arch ribs for the South Bank Dome of Discovery. This building, as almost everyone knows by now, has a diameter of 365 feet and covers about the same area as Trafalgar Square. The main ribs of the dome rest on a steel ring-girder and the whole of the structure of the dome itself, ribs, rafters, purlins and roof sheeting is of aluminium. The dome structure consists of six main ribs radiating from the centre, while six others form two interlocking triangles circumscribed by the periphery of the dome. Each of these ribs is built up of eight sections of varying length, the largest being 57 feet long and weighing only 12 cwt.

The intermediate ribs are shaped to form smooth curves which run generally with the main ribs. Rafters of I-section extrusions are run between the main and intermediate ribs. Sheet for the cover of the dome will be supplied flat and pulled down to the correct curvature during fixing. The main difficulty in the construction of the ribs has been to provide the required curvature. The photograph on this page shows an end view of one of the rib sections, in which the splayed channel section at the bottom is formed to a radius of 361 feet 1 inch and the angle sections at the top to a radius of 364 feet 9½ inches. Since the alloy used is to be heat-treated, the bending produces a considerable internal stress in the section and the only way to overcome this trouble was to bend each section after heat-treatment to a slightly smaller radius than the one finally required and then to release the locked-up stresses during the artificial ageing treatment. As the photograph also shows, the ribs are riveted and not bolted, this being, so far as is known, the first time that aluminium rivets with a diameter as large as ½ inch have been used. This particular technique has only recently been worked out, but, so far as can be seen, it involves no particular difficulty, the rivets closing quite readily with the compressed air machine shown in the illustration. The fact that the rivets are closed cold means that they fit the holes well, since there is none of the shrinkage normally experienced with a hot closed steel rivet.—(*Structural and Mechanical Development Engineers Ltd., 2, Buckingham Avenue, Slough, Bucks.*)

### DATA ON SOLID FUEL

The Gas Council has just issued two useful booklets on coke-fired appliances for domestic work and for central heating plants. Both booklets are illustrated with a number of quite useful installation diagrams and data on the various grades of coke normally available, and their recommended uses. Some of the information supplied is a little elementary in that few people should need separate paragraphs to tell them how to light a boiler by using a gas poker or using paper and sticks; but most appliances are so regularly maltreated that perhaps such information is really desirable. From the architect's point of view, this series of booklets should be useful, and it is to be continued with booklets on the uses of coke for various other purposes.—(*The Gas Council, Coke Department, 1, Grosvenor Place, London, S.W.1.*)

### AUTOMATIC STOKERS

While considering solid fuel heating it is perhaps worth mentioning that Ashwell & Nesbit Ltd. have recently issued two leaflets on their Iron Fireman automatic stokers. These are all of the underfeed type with the usual range of automatic

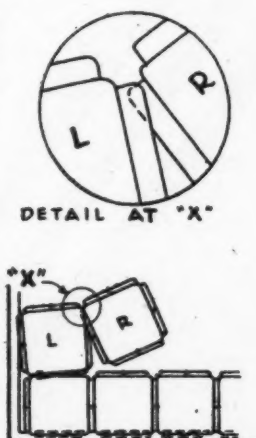
control instruments and there is also a comparatively new model known as the Coal Flow in which the conveyor worm feeds coal direct from the fuel store to the boiler furnace, with no intermediate filling of hoppers. The smallest of these has an output of 184,000 BTU's per hour.—(*Ashwell & Nesbit Ltd., Barkley Road, Leicester.*)

### TRANSPARENT PLASTIC BLOCKS

Froy & Son have just introduced the Luma-Blok, which can only be described as a hollow glass block made of plastic. The blocks are 7½ inch square with a thickness of 1½ inch, and they each weigh slightly less than a pound so that they may be used for internal partition work without putting any excess loading on the floor. The edges of the blocks have projecting interlocking fins so that the faces are properly aligned and the panels can be built without the use of any mortar or adhesives.

These blocks have certain limitations in that they have been developed for interior use only, and are not to be used where temperatures exceed 140° F. They should, however, be useful for internal work, particularly for shop counters or window displays and can easily be cleaned with soap and water. The maximum carrying capacity of each block is 20 pounds so that any panel should not be more than 16 blocks high unless an intermediate supporting member is used.

Froy's, incidentally, have just completed the rebuilding of their offices and show-rooms and celebrated their centenary in the middle of last month. On this occasion they organized a special show of new equipment and materials including not only the Luma-Blok, but some good kitchen furniture by W. H. Paul Ltd., some new dish washing equipment by Staines for the standard sink unit, and the new Gillott steam-electric heat storage cooker which is automatically controlled and switches itself off when the required temperature is reached.—(*W. N. Froy & Sons Ltd., Brunswick Works, King Street, Hammersmith, W.6.*)



Right, manufacture of aluminium alloy main arch ribs of Dome of Discovery in progress at SMD works at Slough. Above, an illustration from Froy's pamphlet showing a stage in the assembling of their Luma-Blocs.

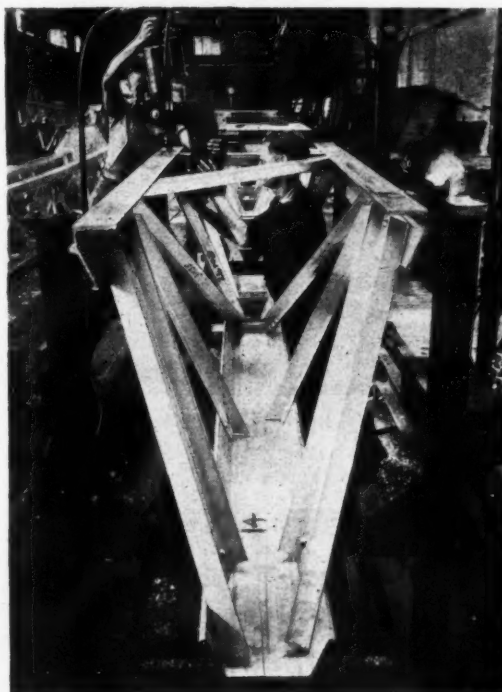
### STRUCTURAL STEEL DESIGN

The British Constructional Steelwork Association has made arrangements to publish some of the technical booklets which it prepares from time to time for the use of its own members. The first one consists of examples of steel designed to conform with the requirements of BS449. This standard involves some changes in the design methods hitherto in use and these changes are in the main due to revised superimposed loads (in particular wind pressures and their distribution), increased working stresses when steel is used has a guaranteed yield stress, revised methods of dealing with combinations of bending and axial compression, and the strength of girder webs for simple shear and for combined bending and shear. The examples shown in the booklet set out very clearly the methods of calculations and illustrate the differences introduced by the new specification. Further booklets will deal with the design of stanchions and valley girders. The author is V. H. Lawton.—(*British Constructional Steelwork Association, Artillery House, Artillery Row, Westminster, S.W.1.*)

## Announcements

Mr. Nicholas Diamantis, of the Liverpool School of Architecture, 26, Abercromby Square, Liverpool, 7, will be glad to receive manufacturers' catalogues, information sheets and technical brochures.

At the annual general meeting of The Aluminium Development Association, held recently, members received an encouraging report of the activities of the Association during the year 1949. The new president is Mr. Edward Player, managing director of Birmid Industries, Limited, who has represented that company on the ADA Council since 1945. Mr. E. Austyn Reynolds, who was elected vice-president, represents T.I. Aluminium, Limited, on the ADA Council, and for some years was also a member of the executive committee. Mr. F. G. Wool-





lard was re-elected chairman of the executive committee for a further year.

The Council of the Institute of Welding have awarded the Sir William J. Larke medal, for the best paper read to the Institute during the year, to Mr. R. G. Braithwaite, M.I.C.E., M.INST.W. Mr. Braithwaite is welding consultant to Braithwaite & Co. (Structural) Ltd., and was last year chairman of the Birmingham Branch of the Institute. His paper deals with the control of distortion in arc welding.

## Buildings Illustrated

*Courtald's Dyeing Research Laboratories, Campbell Street, Droylsden, Manchester.* (Page 8.) Architect: W. F. Johnson (A.). Regional Architect: J. T. Alliston (F.). General Contractors: David Walton & Co. Ltd. Sub-contractors: Asphalt, Val de Travers; bricks, Accrington Brick & Tile Co. Ltd.; special cream facing, Procter & Lavender; artificial stone, Empire Stone Co.; structural steel, Redpath, Brown & Co. Ltd.; fireproof construction, roofing beams, Siegwart Fireproof Floor Co. Ltd.; roofing felt, Andersons & Son Ltd.; patent glazing, casements, window furniture, Williams & Williams; woodblock flooring, Hollis Bros. & Co. Ltd.; central heating, ventilation, Matthew Hall & Co. Ltd.; electric wiring, electric light fixtures, Courtalds Ltd.; plumbing, Richard Rouse & Son Ltd.; sanitary fittings, Rowe Bros. & Co. Ltd.; door furniture, James Gibbons Ltd.; telephones, General Post Office; rolling shutters, Mather & Platt Ltd.; plaster, W. J. Roberts & Son Ltd.; tiling, Messrs. J. & H. Patteson Ltd.; furniture, laboratories, George & Becker Ltd., offices,

library and conference room, Ernest Race Ltd.

*Restaurant in Glasgow.* (Page 9.) Architect: W. A. Gladstone, A.R.I.A.S., M.INST.R.A. General Contractors: Robert Rogerson & Co. Ltd. Sub-contractors: Heating: James Combe & Son Ltd.; paintwork, G. W. Spillers & Sons; electrical fittings, General Electric Co. Ltd.; furnishings, Rowen & Boden Ltd.; kitchen equipment, Carron Iron Co.; sanitary fittings, W. B. Morrison & Son Ltd.

*Primary School, Ormesby, N. Yorkshire.* (Pages 12-18.) Architect: Denis Clarke Hall, F.R.I.B.A. Quantity Surveyors: North Riding Education Committee. General Contractors: Messrs. Norman Stonehouse. Sub-contractors: Structural Steel, Octavius Atkinson & Sons, Ltd.; facing bricks, Crossley Ltd.; roofing felt, The Neuchatel Asphalt Co. Ltd.; patent flooring, Granwood Flooring Co. Ltd.; central heating, Raines (H & V) Ltd.; gas fixtures, Samuel Gratrix Ltd.; boilers, Ideal Boilers & Radiators Ltd.; electric wiring, Johnson & Throp Ltd.; electric light fixtures, Troughton & Young (Lighting) Ltd.; sanitary fittings, Alfred Goslett & Co.; door furniture, Lockerbie & Wilkinson Ltd.; casements and window furniture, Vickers-Goodwin Ltd.; textiles, Heal & Sons Ltd.; cloakroom fittings, The Roachwood Co. Ltd.; clocks, Smiths English Clocks Ltd.

## Correction

Messrs. Triplex Foundry Ltd. point out that the cooker illustrated in the June 22 notes was Type V and not type W, and that both models should be described as heavily insulated rather than as heat storage types.

*Readers requiring up-to-date information on building products and services may complete and post this form to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.*

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A.J. 6.7.50

**Built-up Roofings by**

As laid at the Primary School, Ormesby illustrated in this issue.

Architect: Denis Clarke Hall, F.R.I.B.A.  
Contractor: Norman Stonehouse.

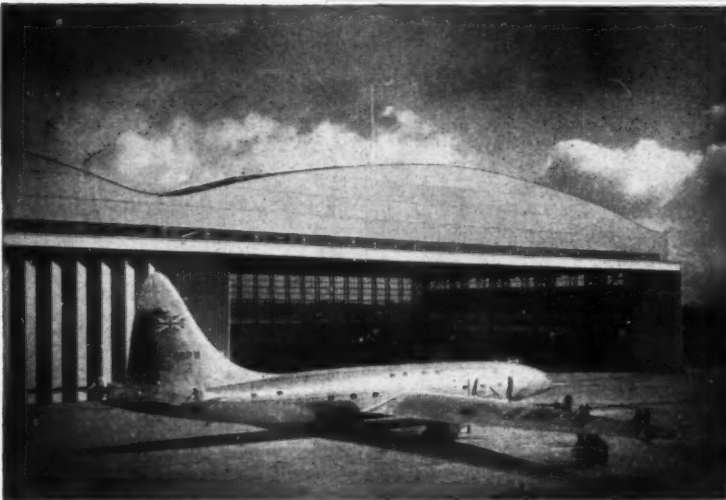
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Consulting Engineers :

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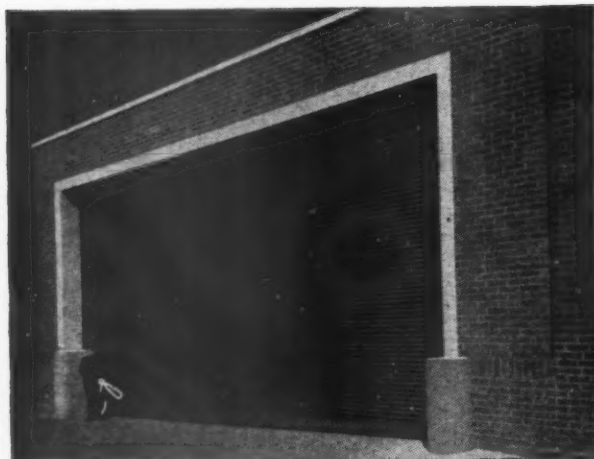
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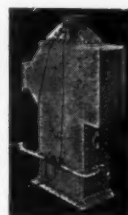
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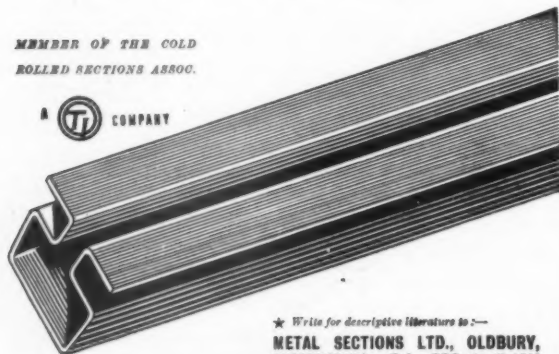
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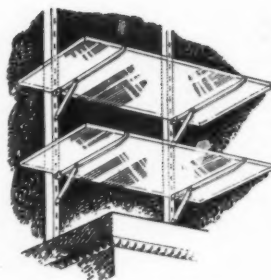
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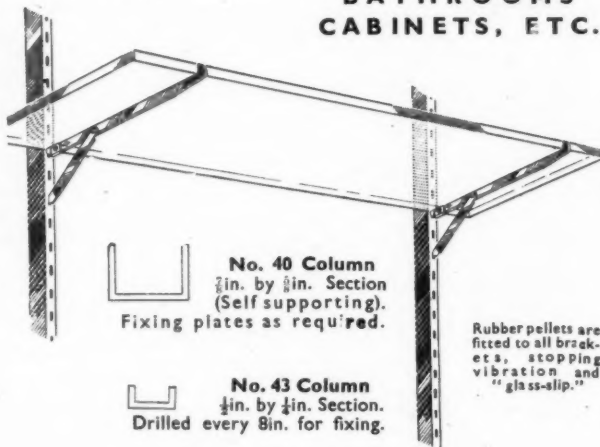


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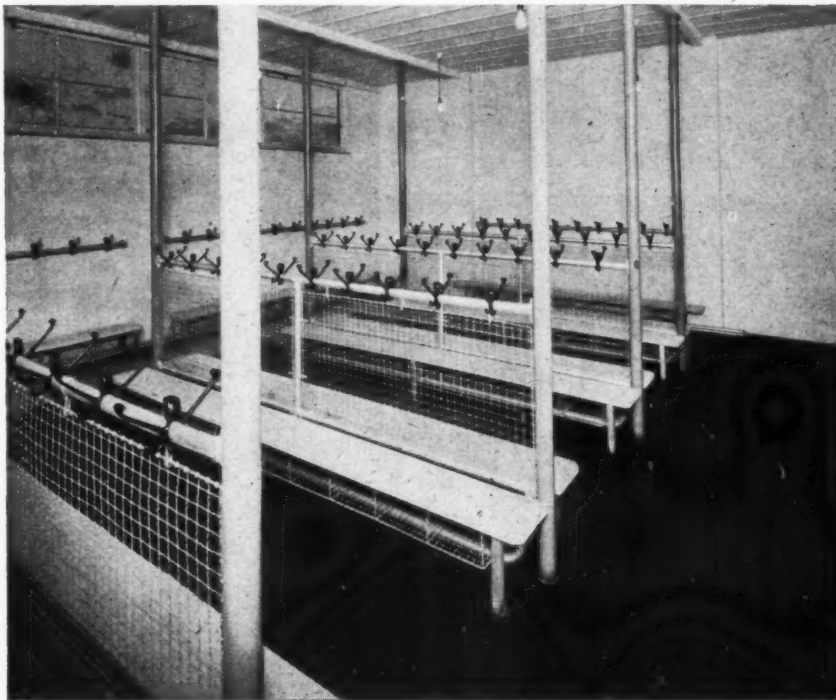
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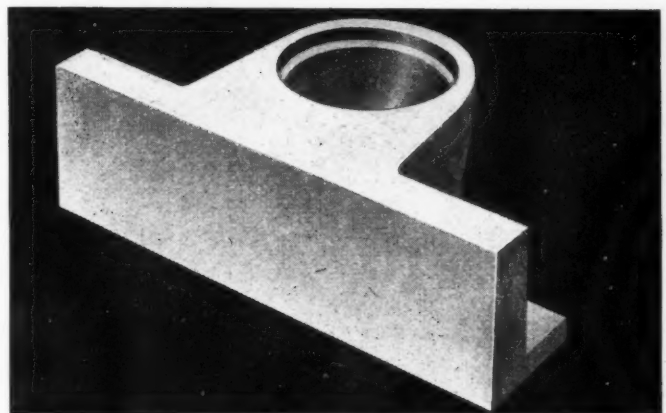
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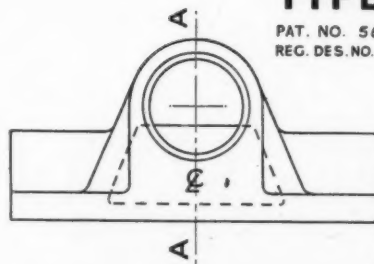
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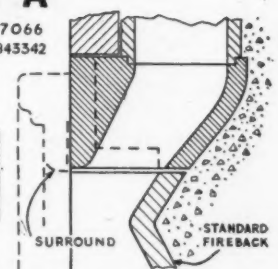


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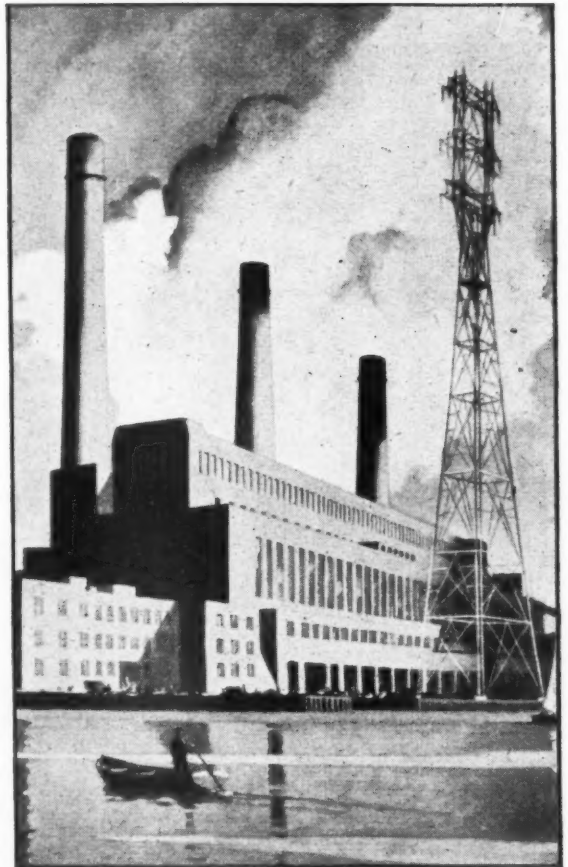


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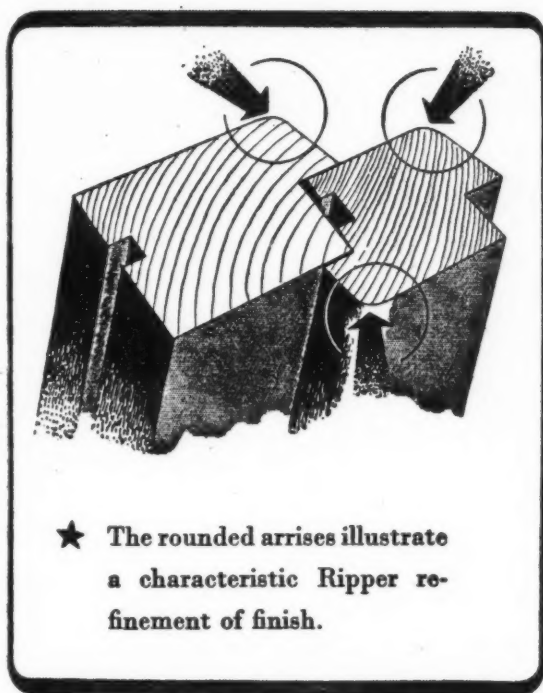
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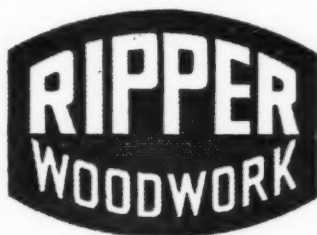
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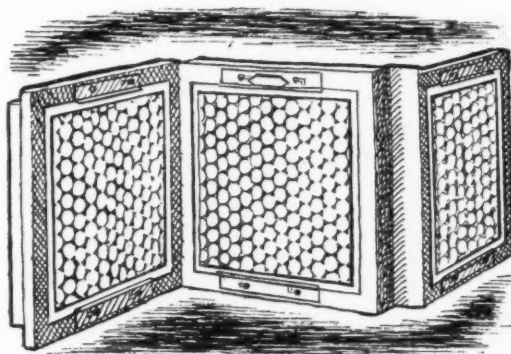


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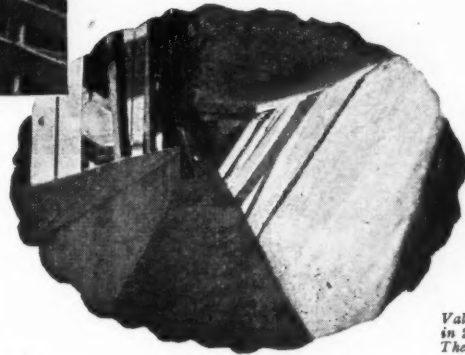
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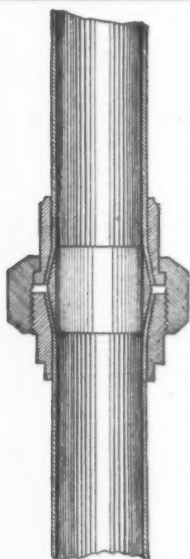
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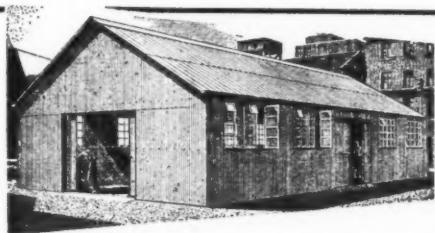
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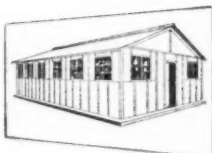


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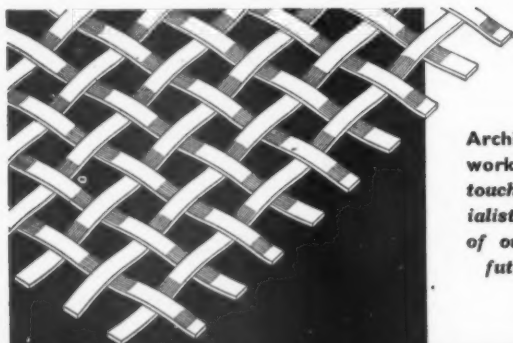
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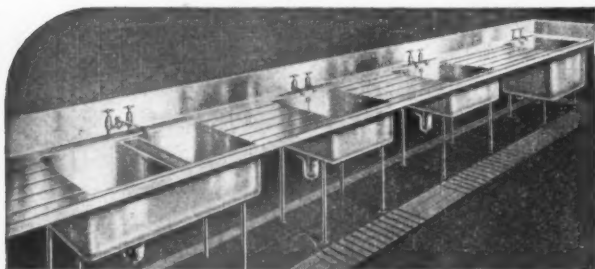


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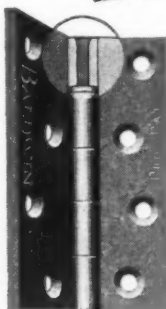
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## NORTH THAMES GAS BOARD.

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 9787. 4341

## ANGLESEY COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments in the County Architect's Department.

(a) ONE ASSISTANT ARCHITECT. Salary Grade V, commencing at £520 per annum, and rising to £570 per annum. Preference will be given to Associate Members of the Royal Institute of British Architects, with good general experience in design and construction.

(b) ONE ASSISTANT ARCHITECT. Salary Grade IV, commencing at £480 per annum and rising to £525 per annum. Applicants should have had good experience in the preparation of working drawings, and preference will be given to applicants who have passed the Intermediate Examination of the Royal Institute of British Architects.

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

Candidates called up for interview will be required to undergo a medical examination by the County Medical Officer.

A lodging allowance of 25s. per week will be paid for a period up to six months to the successful candidates who are married (or, if single, with dependant) and unable to secure housing accommodation in the district, as from the date of their appointment.

Further particulars regarding the appointments may be obtained from Mr. N. S. Johnson, A.R.B.A., A.M.T.P.I., County Architect, Shire Hall, Llangefni, Anglesey.

Applications, stating age, training, experience, qualifications, names of two referees, and accompanied by a copy of one recent testimonial, are to be sent so as to reach the undersigned not later than Monday, 24th July, 1950.

WILLIAM JONES,

Clerk of the County Council.

Shire Hall, Llangefni, Anglesey.

15th June, 1950.

4607

## BOROUGH OF SOUTHALL.

Appointment of:

## (a) ARCHITECTURAL ASSISTANT.

## (b) JUNIOR ENGINEERING ASSISTANT.

Applications are invited for these permanent appointments on the staff of the Corporation. Salary for appointment (a) in accordance with Grade A.P.T., III, of the National Scheme (£450×£15-£495) and for appointment (b) in accordance with Grade A.P.T., II, of the National Scheme (£420×£15-£465). Appropriate London weighting is payable in both cases.

Candidates for appointment (a) should have passed the Intermediate Examination of the R.I.B.A. and have had previous Local Government experience.

Candidates for appointment (b) should have had training in Municipal engineering, and should be taking the examinations for a recognised engineering qualification.

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

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him not later than 17th July, 1950.

J. S. SYRETT,

Town Clerk.

Town Clerk's Offices, South Road,

Southall, Middx.

June, 1950.

4621

## COUNTY BOROUGH OF CROYDON.

## SCHOOL ARCHITECT'S SECTION.

## ASSISTANT ARCHITECT.

Applications are invited for this appointment. Salary: Grade A.P.T., V, £520 to £570 p.a., plus London weighting.

The appointment is established and pensionable, subject to medical examination.

Forms of application may be obtained from the Chief Education Officer, Katharine Street, Croydon (by sending stamped foolscap envelope), and must be returned to him within 14 days from the publication of this advertisement.

Living accommodation is not offered.

Canvassing will disqualify.

E. TABERNER,

Town Clerk.

4611

June, 1950.

## URBAN DISTRICT COUNCIL OF CORBY.

## ENGINEER AND SURVEYOR'S

## DEPARTMENT.

Applications are invited for the undermentioned appointments on the permanent staff of the Council's Engineer and Surveyor.

(1) CHIEF ASSISTANT ARCHITECT. Salary in accordance with Grade VIII, A.P.T. Division of the National Scale of Salaries (£685-£760). Applicants must have previous experience of large scale housing development, preferably in Local Government Service, good experience in general architectural practice, and have a sound knowledge of contemporary design, construction and specification for houses, shops and schemes of flats.

(2) ASSISTANT ARCHITECT. Salary in accordance with Grade VI, A.P.T. Division of the National Scale of Salaries (£595-£660). Applicants must have a sound knowledge of design, construction and specification and previous experience of local authority housing development. Candidates for both appointments must have passed the Final Examination of the R.I.B.A.

Housing accommodation will be made available to the successful candidates, if married.

The provisions of the Local Government Superannuation Act, 1937, will apply. Application forms, to be obtained from the undersigned, should be completed and submitted not later than noon, on Saturday, 15th July, 1950.

G. B. BLACKALL,

Clerk of the Council.

Council Offices, Corby, Northants.

27th June, 1950.

4682

## 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) 4658

## SURREY COUNTY COUNCIL.

## COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:

(a) ASSISTANT QUANTITY SURVEYOR. Grade VIII, at a commencing salary of £685, rising by annual increments of £25 to a maximum of £760 per annum, plus London allowance of £30 per annum.

Applicants should possess approved qualifications and experience, and preference will be given to those who are Members of the Royal Institution of Chartered Surveyors (Quantities Sub-Division). They should be capable of undertaking all stages of the work for the preparation of Bills of Quantities, including preliminary estimates, the preparation and settlement of final accounts, site measurement, and preparation of interim certificates.

(b) ASSISTANT ARCHITECT, Grade V, at a commencing salary of £520, rising by annual increments of £15/20 to a maximum of £570 per annum plus London allowance of up to £30 per annum, according to age.

Preference will be given to applicants who are Associate Members of the Royal Institute of British Architects, and have had a good training and an adequate experience in the design and construction of modern buildings.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 15th July, 1950.

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

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

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames.

4622

lix

## COUNTY BOROUGH OF SOUTHPORT.

## BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the appointment of a QUANTITY SURVEYOR, on the permanent staff of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade V of the A.P.T. Division of the National Joint Scale of Salaries (£520-£570 per annum). The commencing salary within the Grade will be determined according to the candidate's qualifications and experience.

Applicants should be experienced in the preparation of bills of quantities, the checking of interim valuations and the settlement of final accounts. Experience with a local authority is not essential, and preference will be given to Corporate Members of the Royal Institute of Chartered Surveyors (Quantity Surveyors' Section).

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

Applications, endorsed "Quantity Surveyor," stating age, with full particulars of qualifications and experience, accompanied by copies of three recent testimonials, must be delivered to the Borough Engineer, Town Hall, Southport, not later than Monday, 17th July, 1950.

R. EDGAR PERRINS,

Town Clerk.

Town Hall, Southport.

June, 1950.

4673

## LONDON ELECTRICITY BOARD.

## ENGINEERING DRAUGHTSMEN.

Applications are invited for the above positions in the Construction Branch of the Chief Engineer's Department at present situated at Lesco House, Stamford Street, S.E.1.

The successful applicants will be engaged upon civil engineering and constructional work, and applicants should have a knowledge of building construction and experience in the design and detailing of either structural steelwork or reinforced concrete, or preferably both. Pending grading of the posts under the National agreement of the appropriate negotiating body, the commencing salary will be from £500 per annum, dependent on qualifications and experience.

Application forms obtainable on receipt of an addressed foolscap envelope from Establishments Officer, 46/47, New Broad Street, E.C.2, to be returned not later than 14th July, 1950. Please quote EST/V/671/A on envelope and all correspondence. 4692

## CITY AND COUNTY BOROUGH OF BELFAST.

## CITY ENGINEER AND SURVEYOR'S

## DEPARTMENT.

Applications are invited from qualified persons for the following appointments:

## (a) DEPUTY PRINCIPAL OFFICER (Architectural Section).

Candidates must be qualified Architects, with a minimum of 5 years' practical experience as such, and Members of the Royal Institute of British Architects or other recognised professional association. Previous experience in the planning of Municipal buildings, and the administrative work of a local authority's Architectural Section will be considered an advantage.

The salary attached to the office is £650 per annum, rising by annual increments of £25 to £750 per annum, plus cost-of-living bonus, at present £90 per annum.

## (b) ASSISTANT ARCHITECTS (Class II).

Candidates must have passed the Intermediate Examination of the Royal Institute of British Architects or possess an equivalent qualification.

The salary attached to the office is £250 per annum, rising by annual increments of £25 to £450 per annum, plus cost-of-living bonus, varying from £78 to £90 per annum.

The commencing salary in each case will be determined in the light of the qualifications and experience of the person appointed.

Preference will be given to ex-Service candidates, possessing the required qualifications, provided the Council is satisfied that such candidates can fill, or within a reasonable time will be able to fill, the posts efficiently.

Forms of application and conditions of appointment may be obtained from the City Surveyor, at Room 39, City Hall, Belfast.

Applications, endorsed "Appointment of Assistant Architect," and accompanied by copies of three recent testimonials, must be lodged with the undersigned not later than 4 p.m. on Monday, 17th July, 1950.

Canvassing in any form, oral or written, direct or indirect, will, if proved to the satisfaction of the appointing authority, disqualify a candidate for appointment.

JOHN DUNLOP,

Town Clerk.

City Hall, Belfast.

June, 1950.

4726

## THE UNIVERSITY OF LIVERPOOL.

Applications are invited for the post of LECTURER AND STUDIO INSTRUCTOR in the School of Architecture, at a salary scale of £550×£50-£1,100 per annum.

Applications, accompanied if possible by drawings or photographs of work, two testimonials, and the names of two referees, should be received not later than 11th September, 1950, by the undersigned, from whom further particulars of the conditions of appointment may be obtained.

STANLEY DUMBELL,

Registrar.

May, 1950.

4554



**SALOP COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.**  
Applications are invited for the following appointments to Established posts in the Department:-

- (1) ASSISTANT ARCHITECTS. A.P.T. Grades III-IV. Salary £450 to £525 per annum.  
(2) ASSISTANT ARCHITECTS. A.P.T. Grades II-III. Salary £420 to £495 per annum.

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

Application forms may be obtained from the County Architect, A. G. Chant, F.R.I.B.A., Columa House, London Road, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Saturday, 22nd July, 1950.

G. C. GODBER,  
Clerk of the Council.

Shrewsbury, June, 1950. 4730

**ROTHWELL URBAN DISTRICT COUNCIL  
(YORKS.)  
APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT.**

Applications are invited for the appointment of temporary Architectural Assistant in A.P.T. Grade II, of the National Scale of Salaries (£420-£465). Preference will be given to applicants who have had practical experience in housing and general architectural work, and who are at present studying for the qualifying examinations of the Royal Institute of British Architects.

Applications, stating age, present and previous appointments, qualifications and experience, together with copies of three recent testimonials, must reach the undersigned not later than Saturday, 29th July, 1950.

ALLEN T. S. ROBERTSON,  
Clerk of the Council.  
Civic Buildings, Rothwell, Leeds.

3rd July, 1950. 4707

**METROPOLITAN BOROUGH OF  
WANDSWORTH.  
BOROUGH ARCHITECT'S DEPARTMENT.**  
Applications are invited from suitably qualified persons for the undermentioned established appointments of ARCHITECTURAL ASSISTANTS:-

- Grade A.P.T. VII (£665 to £740).  
Grade A.P.T. V-VI (£550 to £590).  
Grade A.P.T. IV (£510 to £555).  
Grade A.P.T. III (£480 to £525).  
Grade A.P.T. II (£450 to £495).  
Grade A.P.T. I (£420 to £465). Two posts.

The work of the department includes the design and planning of housing estates, particularly multi-storey blocks of flats.

Requests for application forms, which can be obtained from the Borough Architect, should state clearly for which post the form is required.

Completed forms should be returned to the undersigned not later than 17th July, 1950.

R. H. JERMAN,  
Town Clerk.

Municipal Buildings, Wandsworth, S.W.18. 4683  
June, 1950.

**COUNTY BOROUGH OF MIDDLESBROUGH.  
EDUCATION COMMITTEE.  
ARCHITECTURAL STAFF.**

Applications are invited for posts of ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS, in the Education Architect's Sub-Department of the Education Offices, offering excellent opportunities in the design and construction of modern school buildings.

The posts are at grades of salary within the range A.P.T. IV, to A.P.T. VI, and in the case of the senior appointments, housing accommodation can, if necessary, be provided by the Authority.

Forms of Application and Conditions of Service may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough, to whom they should be returned within two weeks of the appearance of this advertisement.

E. C. PARR,  
Town Clerk.

4693

**GARFORTH URBAN DISTRICT COUNCIL.  
APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT IN THE DEPARTMENT OF THE ENGINEER AND SURVEYOR.**

Applications are invited for the above appointment from applicants who have passed the Inter-Examination R.I.B.A. or exemption therefrom, at a salary in accordance with scales A.P.T. III/IV. The appointed candidate will be engaged solely on Housing projects, and the commencing salary fixed according to qualifications and experience.

The appointment will be terminable by one month's notice in writing, and will be subject to the National Conditions of Service, and to the successful candidate passing a medical examination.

Applications, stating age, present appointment, qualifications, experience, and naming two referees, to be sent to the undersigned not later than the 18th July, 1950.

Housing accommodation will be considered if required.

B. G. TAYLOR,  
Clerk to the Council.

Council Offices, Garforth. 4732

**BOROUGH OF HESTON AND ISLEWORTH.  
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.**

Applications are invited for the permanent appointment of a Senior Architectural Assistant in the Department of the Borough Engineer and Surveyor (salary in accordance with A.P.T. VII, £635-£710 per annum, plus London weighting of £30 per annum).

Applicants must have passed the examination for the Associateship R.I.B.A., or hold a University degree or diploma in architecture accepted by that Institution.

The person appointed must have had good experience in architectural design and building work under construction. His or her duties will include preparation or sketch designs, working drawings, and the handling of building contracts under construction. Experience in housing and multi-storey flats will be considered to be an advantage.

Applications, on forms to be obtained from the Borough Engineer and Surveyor, 88, Lampton Road, Hounslow, must be returned to him not later than noon on Monday, 17th July, endorsed "Senior Architectural Assistant."

HAROLD SWANN,  
Town Clerk.

June, 1950. 4670

**MINISTRY OF WORKS.**

There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS, with recognised and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.

Salary: Architectural Assistants, £300-£525 per annum, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces.

Although these are not established posts, some of them have long term possibilities, and competitions are held periodically to fill established vacancies.

Apply in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.G.10/AT, Ministry of Works, Abell House, London, S.W.1. 4083

**COUNTY BOROUGH OF HUDDERSFIELD.  
BOROUGH ARCHITECT AND TOWN PLANNING OFFICER'S DEPARTMENT.**

Applications are invited for the appointment of TWO ASSISTANT ARCHITECTS, at a salary in accordance with Grade VI of the A.P.T. Division of the National Scale of Salaries (£595-£660 per annum).

Applicants should be Associate Members of the Royal Institute of British Architects, and have had experience in the architectural works of a local authority.

Housing accommodation will be made available, if necessary, and candidates are requested to state in their application if such accommodation is required.

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

Applications should be submitted, together with names of three referees, to reach Mr. S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect and Town Planning Officer, High Street Buildings, Huddersfield, not later than 24th July, 1950.

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

HARRY BANN,  
Town Clerk.

Town Hall, Huddersfield. 4691

**COUNTY BOROUGH OF WEST BROMWICH.**

Appointment of:-

- (a) ASSISTANT ARCHITECT. A.P.T., Grade VII.  
(b) ARCHITECTURAL ASSISTANT, A.P.T., Grade IV.

Applications are invited for the following permanent appointments on the staff of the Borough Engineer and Surveyor:-

(a) Assistant Architect. Salary in accordance with A.P.T. Grade VII (£635-£710), per annum. Candidates should be Associate Members of the Royal Institute of British Architects or Registered Architects.

(b) Architectural Assistant. Salary in accordance with A.P.T., Grade IV (£480-£525), per annum.

The persons appointed must hold and continue to hold the appropriate qualifications set out in the Grading of Special Classes of Officers of the National Charter, M.I.

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

Applications stating age, experience and qualifications, together with the names of two persons to whom reference can be made, should be delivered to the undersigned not later than Friday, the 21st July, 1950.

Canvassing, either directly or indirectly, will be a disqualification, and relationship to any member or senior officer of the Council must be disclosed.

H. SCHOFIELD, B.Sc.(Eng.), A.M.I.C.E., A.M.T.P.I.,  
Borough Engineer and Surveyor.

Town Hall, West Bromwich. 4690  
27th June, 1950.

**CORPORATION OF LONDON.  
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.**

**AUXILIARY STAFF.**

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, in connection with the design and construction of large buildings following war damage, and the supervision of the contracts.

Applicants require to have good practical experience in the preparation of surveys, working drawings, 1/4-inch and full size details, and a sound knowledge regarding the conducting of contracts.

The salaries offered will be within the range of £600-£725-£750 per annum and £700-£725-£850 per annum. The commencing salaries will be arranged according to qualifications and experience. Applicants should be Associate Members of the Royal Institute of British Architects or Registered Architects, and should be between 30 and 45 years of age.

The appointed officers will require to pass a medical examination and to contribute to the Corporation's Superannuation Fund as maintained under the City of London (Various Powers) Acts, 1931 and 1950.

Applications, giving full personal details, particulars of qualifications, age, past and present appointments, and the names of two persons to whom reference may be made, should be sent to the City Surveyor, Corporation of London, 55/61, Moorgate, London, E.C.2, not later than Monday, the 17th July. 4706

**COUNTY BOROUGH OF BLACKPOOL.**

Applications are invited for the established position of ARCHITECTURAL ASSISTANT, A.P.T., Grade III, £450-£495 p.a., in the Borough Surveyor's Department.

Applications (stating in the following order:- age, present position and salary, previous positions, and full details of qualifications and experience), accompanied by copies of not more than three recent testimonials, are to be forwarded to Arthur Hamilton, B.Sc., A.R.I.B.A., Borough Surveyor, Municipal Buildings, Blackpool, to reach him not later than 10 a.m. on Friday, 14th July, 1950.

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

The Council is unable to assist the successful candidate in securing housing accommodation.

Canvassing of the Council will be a disqualification.

TREVOR T. JONES,  
Town Clerk. 4705

**SOUTHERN COLLEGE OF ART,  
PORTSMOUTH.**

Principal: W. J. L. GAYDON, A.R.C.A.  
Head of School of Architecture: A. C. TOWNSEND, Dipl.Arch.(Lpool), F.R.I.B.A.

Required in September, 1950, a full-time ASSISTANT STUDIO MASTER AND LECTURER in Architectural Design.

Applicants should hold the A.R.I.B.A., and preferably a Degree or Diploma of a Recognised School.

Salary in accordance with the Burnham Scale-£300-£15-£555 per annum-with additional allowances for training, qualifications and experience, plus a Special Responsibility allowance of £100 per annum.

Full particulars of the appointment and application form from the Registrar, College of Art, Guildhall Square, Portsmouth.

E. G. BARNARD, M.A.,  
Chief Education Officer. 4723

**STAFFORDSHIRE COUNTY COUNCIL  
EDUCATION COMMITTEE.**

Applications are invited for the following appointments on the Staff of the Architect's Department:-

- (1) SPECIFICATION WRITER.  
(2) MEASURING SURVEYOR.

Salary for both appointments will be in accordance with Grade IV of the A.P.T. Division of the National Scales (£480-£525 per annum).

The appointments will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and successful candidates will be required to undergo a medical examination. The appointments will also be subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities' Administrative, Technical and Clerical Services.

A lodging allowance of 25s. per week, and return railway fare home every two months will be paid for a maximum period of six months where the successful candidates are married and have to continue to maintain their homes outside the geographical county while seeking housing accommodation.

Canvassing, either directly or indirectly, will operate as a disqualification, and candidates must disclose in their applications whether to their knowledge they are related to any member or senior officer of this Council.

Applications, endorsed according to the particular post in respect of which consideration is desired, should be addressed to The Director of Education (A), County Education Offices, Earl Street, Stafford, stating age, qualifications and previous experience, and should be accompanied by copies of two recent testimonials.

All applications are required to be received not later than first post on Monday, 17th July, 1950.

T. H. EVANS,  
Clerk of the County Council. 4731



# IMPERIAL WAR GRAVES COMMISSION.

Applications are invited from suitably qualified candidates for the post of SENIOR SUPERINTENDENT OF WORKS, Tunisia Area, in the Western Mediterranean District.

All candidates should be under 50 years of age, have had experience in carrying out constructional work abroad, and have some knowledge of the country. A knowledge of French is desirable and membership of the Institution of Civil Engineers or Royal Institute of British Architects or Royal Institution of Chartered Surveyors would be an advantage. Salary scale £625-£225-£750 per annum, plus Foreign Service allowance at present at the rate of about £455 per annum for a married man accompanied by his wife, £435 per annum for a married man unaccompanied by his wife, or £230 per annum for a single man.

Applications to be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, Bucks. 4720

## MIDDLESEX COUNTY COUNCIL ARCHITECTS' DEPARTMENT.

DEPUTY AREA ARCHITECTS required. A.P.T. IX, commencing salary £780-£50-£930 p.a. Established, pensionable, subject to medical fitness. Candidates should be Registered Architects, preferably with Local Government experience. Application forms (stamped addressed foolscap envelope) to be returned by 17th July (quoting H.143 A.J.). Canvassing disqualified.

C. W. RADCLIFFE.

Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1. 4681

## KENT COUNTY COUNCIL.

Applications are invited for appointments in the Buildings Department of TWO ASSISTANT ARCHITECTS, at salaries within A.P.T., Grades VI(a)-VI (£550-£660).

Applicants, who must be Members of the Royal Institute of British Architects, should, for preference, have completed a full-time course at a recognised school of architecture and be conversant with methods of research. In addition, they should have good experience in the design and supervision of both large and small building schemes, and be capable of taking charge of such schemes.

Previous experience with a local authority is not essential, but experience on school buildings will be an advantage.

The posts are superannuable, and the successful candidates will be required to pass a medical examination.

Applications, on forms obtainable from the County Architect, Springfield, Maidstone, should be delivered to him not later than 14 days after the appearance of this advertisement.

W. L. PLATTS.

Clerk of the County Council.

County Hall, Maidstone. 4716  
23rd June, 1950.

## KENT EDUCATION COMMITTEE.

MEDWAY COLLEGE OF ART, EASTGATE, ROCHESTER.

### DEPARTMENT OF ARCHITECTURE.

STUDIO MASTER (Design and Building Construction) required to commence in September next, or as soon after as possible. Burnham Technical Scale salary, with additions for degree (A.R.I.B.A.), approved training, professional and/or teaching experience. In addition, for suitable candidate, post will carry responsibility allowance up to maximum of £100 per annum. Apply by letter to the Principal of the College. 4718

## CITY OF PLYMOUTH.

### CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, subject to the Conditions of Service of the National Joint Council for Local Authorities, Administrative, Professional, Technical and Clerical Services, the Local Government Superannuation Act, 1937, and one month's notice on either side for termination.

(a) SENIOR ASSISTANT ARCHITECT. A.P.T. Grade VII (£550-£710).

(b) TWO SENIOR ASSISTANT ARCHITECTS. A.P.T. Grade VI (£595-£660).

The Department is responsible for the Corporation's Architectural work, including Housing, Education and General Municipal Buildings.

Candidates must be Registered Architects, and preference will be given to Members of the R.I.B.A.

Successful candidates will be required to pass a medical examination.

Applications on forms obtainable from the undersigned, accompanied by copies of not more than three recent testimonials and/or names of persons to whom reference may be made, should be received at my office not later than Wednesday, 19th July, 1950.

The Corporation may make housing accommodation available to the successful candidate if required.

E. G. CATCHPOLE, A.R.I.B.A., City Architect.

Seymour Road, Plymouth. 4671

## LONDON HOSPITAL, WHITECHAPEL, E.1.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT. Salary in accordance with A.P.T. Scale, Grade VI, i.e., £595-£220-£225 to £660, plus £30 London weighting. Candidates with knowledge of hospital work desirable but not essential. The post is superannuable under the National Health Service Superannuation Regulations, 1947/1949. Applications, giving age, present salary, and brief statement of qualifications and experience, should be addressed to the House Governor. 4672

## STAFFORDSHIRE COUNTY COUNCIL EDUCATION COMMITTEE.

Applications are invited for the following appointments on the Staff of the Architect's Department:—

(1) CHIEF ASSISTANT ARCHITECT. Grade IX (£750-£50-£900 per annum).

(2) SECTION ARCHITECTS (TWO). Grade VIII (£685-£25-£760 per annum).

The successful candidates would normally be placed on the minimum of the appropriate Grade, but consideration will be given to experience and qualifications in deciding the commencing salary.

Applicants for (1) are required to be Fellows or Associates of the R.I.B.A., and should have a wide experience in the design and construction of all types of school buildings and be fully conversant with Ministry of Education regulations relative to such buildings. The successful candidate must have had experience in control of staff and must be in possession of a car, in respect of which mileage allowance will be payable in accordance with the County Scale.

Applicants for (2) are required to be either Fellows or Associates of the R.I.B.A., and must have experience in the preparation of schemes for the construction of all types of school buildings and be fully conversant with the Ministry of Education regulations relative to such buildings. The successful candidates will be required to supervise the work of a section of the Drawing Office.

These appointments will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1937, and successful candidates will be required to pass a medical examination before taking up the appointment. The appointments will also be subject to the Scheme and Conditions of Service of the National Joint Council for Local Authorities' Administrative, Technical and Clerical Services.

A lodging allowance of 25s. per week, and return railway fare home every two months, will be paid for a maximum period of six months where the successful candidates are married and have to continue to maintain their homes outside the geographical County while seeking housing accommodation.

Canvassing, either directly or indirectly, will operate as a disqualification, and candidates must disclose in their applications whether to their knowledge they are related to any member or senior officer of this Council.

Applications, endorsed according to the particular post in respect of which consideration is desired, should be addressed to The Director of Education (A). County Education Offices, Earl Street, Stafford, stating age, qualifications and previous experience, and should be accompanied by copies of two recent testimonials.

All applications are required to be received not later than first post on Monday, 24th July, 1950.

T. H. EVANS.

Clerk of the County Council. 4695

## COUNTY BOROUGH OF WALLASEY. APPOINTMENT OF ASSISTANT QUANTITY SURVEYOR.

Applications are invited by 14th July, 1950, for the appointment of Assistant Quantity Surveyor, Grade A.P.T. V (£520-£570), in the Borough Architect's Department.

Forms of application and conditions of appointment may be obtained from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON.

Town Clerk. 4684

## CITY OF NORWICH.

### CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment on the permanent staff of (a) an ARCHITECTURAL ASSISTANT in Grade IV of A.P.T. Division (£430-£15 to £525 per annum), and (b) an ASSISTANT QUANTITY SURVEYOR in Grade IV or V of A.P.T. Division (Grade IV £480-£225, Grade V £520-£570 per annum).

For (a) candidates to have good general architectural training and experience, preference being given to those who have passed the Intermediate Examination and have some knowledge of work in connection with design of school buildings.

For (b) applicants to be well-experienced and capable of all quantity surveyor's duties, and preference will be given to those possessing a recognised qualification.

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

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

Housing accommodation can, in certain circumstances, be made available.

Candidates who, to their knowledge, are related to any member or officer of the Council shall, when making application for the appointment, disclose the relationship in writing to the Town Clerk. A candidate who fails to do so shall be disqualified for the appointment and, if appointed, shall be liable to dismissal without notice.

Canvassing of members of the Council or of any Committee, directly or indirectly, shall disqualify a candidate for the appointment.

Applications, stating age, training, experience, qualifications and other relative information, together with copies of three recent testimonials, must be received by the City Architect, City Hall, Norwich, not later than 5 p.m. on Friday, 14th July, 1950. 4724

## FIFE COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. CUPAR.

Applications are invited from persons having suitable qualifications for appointment as ARCHITECTURAL ASSISTANT. Candidates must be qualified Architects holding A.R.I.B.A. and registered Architects. Previous local authority experience an advantage. Salary £570, rising by annual increments of £25 to £710 per annum. Consideration will be given to meeting the housing needs of the successful candidate should the same be necessary. The appointment is superannuable and the successful candidate will require to pass a medical examination. Applications, stating age, experience and qualifications, accompanied by recent testimonials, to be lodged with the undersigned by 11th July, 1950. No canvassing.

J. M. MITCHELL.

County Clerk.

County Buildings, Cupar.

24th June, 1950.

4722

## LOCAL APPOINTMENTS COMMISSION, DUBLIN.

### POSITIONS VACANT: TWO QUANTITY SURVEYORS, GRADE II, DUBLIN CORPORATION.

Application forms and particulars may be obtained from the Secretary, 45, Upper O'Connell Street, Dublin. Salary: £550-£220-£750, plus temporary bonus of 7½ per cent, and entry above the minimum if experience or qualifications so warrant. Latest time for receiving completed application forms: 5 p.m. on 28th July, 1950. 4686

## CITY OF MANCHESTER.

### CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of TWO SENIOR ASSISTANT ARCHITECTS on the permanent staff of the City Architect's Department. Salary A.P.T., Grade VII, £635 to £710 per annum.

Candidates must have high ability in design and be capable of taking charge of large contracts and controlling a group of Assistant Architects; candidates for one of the positions must have had wide experience in the design of school buildings.

Preference will be given to candidates who hold a Degree or Diploma in Architecture and/or are Associates R.I.B.A.

The successful candidates will be required to pass a medical examination before the appointments are confirmed, to contribute to the Corporation's Superannuation Fund, and to execute the Corporation's Deed of Service.

Applications on the official form, which can be obtained from the City Architect's Department, must be returned, together with not more than three recent testimonials, to Leonard C. Howitt, B.Arch., Dip.T.P., D.P.A., F.R.I.B.A., M.T.P.I., City Architect, Town Hall, Manchester, 2, by Saturday, the 22nd July, 1950, endorsed "Senior Assistant Architect."

The appointments are subject to the Standing Orders of the Council and the National Joint Council's Scheme of Service Conditions. Canvassing in any form is prohibited, and relationship to any members of the Council or senior official must be disclosed to me in writing.

PHILIP B. DINGLE.

Town Clerk.

Town Hall, Manchester.

June, 1950.

4685

## HIS MAJESTY'S COLONIAL SERVICE.

A CHIEF ASSISTANT PLANNING OFFICER is required by the Government of the Gold Coast. The appointment is on contract for two tours in the first instance. Salary (inclusive of expatriation pay), £1,500 per annum. Fully furnished Government quarters are provided, if available, at a rental of £150 per annum, and income tax is payable at low West African rates only.

The selected officer will be required to give technical advice to the statutory Planning Committees controlling development in the towns and to Native Authorities and Chiefs in the rural areas. Scope for the use of initiative and imagination in working out satisfactory planning principles for West African conditions will enable selected officer to gain valuable experience in tropical town planning. The selected officer will be required to act for the Secretary and Executive Officer of the Town and Country Planning Board during his absence on leave.

Candidates must possess the qualification of A.M.T.P.I. and one or more of the following:—A.R.I.B.A., A.M.I.C.E., A.M.I.Mun.E. Preference will be given to candidates between the ages of 30 and 45.

The terms of service include free first-class passages once each way each tour for the officer and, if married, for his wife and three children up to the age of nine years; free medical attention and home leave on full pay after tours of 12 to 24 months at the rate of 7 days for each month of resident service. The latter enables the officer to keep up to date in changes in town planning methods in Britain, and the 24-hr. air service five times a week and the inter-continental telephone service ensures close connection with home in case of family emergency. A gratuity is payable on satisfactory completion of the period of contract, if the officer is not selected for transfer to the permanent and pensionable establishment.

Applicants should write at once to the Director of Recruitment (Colonial Service), Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, stating age, professional qualifications and experience, and quoting reference number 27281/11. 4719

COUNTY COUNCIL OF THE COUNTY OF LANARK.

PROPERTY DEPARTMENT.  
ARCHITECTURAL ASSISTANTS.

Vacancies exist within the establishment for Architectural Assistants on the staff of the County Architect's Department (Motherwell). Appointments range from a junior to senior capacity, and salary will be in accordance with the J.I.C. Scheme of Salaries and Conditions of Service, ranging from General Division to A.P.T. Grade VII. If preferred, appointment could be a temporary one.

While the work of the Department is mainly of an educational character, consisting largely of the design and development of a large schools building programme, an interesting and varied syllabus embraces every branch of architectural development, including Police Housing, but not general housing.

Although the salary grade and scale will be discussed and adjusted at the interview of selected candidates, written applications should indicate a preference compatible with the qualifications of the applicant.

Applications, stating age, particulars of training, experience and qualifications, together with the names and addresses of three referees, should be addressed to the County Architect, Property Department, 34, Albert Street, Motherwell, not later than 15th July, 1950.

The appointments (permanent) will be subject to the provisions of the Local Government Superannuation (Scotland) Act, 1937, and the successful applicants will require to pass a medical examination.

Canvassing, directly or indirectly, will be a disqualification.

WM. C. BROWNIE, County Clerk.

Lanarkshire House, 191, Ingram Street, Glasgow, C.1. 4710

STAFFORDSHIRE COUNTY COUNCIL.  
SMALL HOLDINGS DEPARTMENT.  
APPOINTMENT OF ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for the above appointment at a salary in accordance with A.P.T. Grade V (£220-£270 per annum). Applicants should be registered Architects. The appointment is subject to the National Joint Council's Scheme of Conditions of Service: the successful applicant will be required to pass a medical examination and to contribute under the Local Government Superannuation Act, 1937. The post is terminable by one month's notice. Applications, stating age, experience and qualifications, should be forwarded, together with copies of three recent testimonials, to reach the County Estate Agent, County Buildings, Stafford, not later than 1st August, 1950. Applicants must state whether or not they are related to any member of the County Council. Canvassing, directly or indirectly, will be a disqualification.

T. H. EVANS, Clerk of the County Council. 4709

CITY OF COVENTRY ARCHITECTURAL AND PLANNING DEPARTMENT.

The following vacancies exist in the above Department on the permanent staff. The contracts in hand in the Department are various and interesting, and this extra assistance is needed so that building works may commence in the immediate future.

- (a) ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. VII (£635-£710).
- (b) QUANTITY SURVEYING ASSISTANT. Grade A.P.T. IV (£480-£525).
- (c) QUANTITY SURVEYING ASSISTANT. Grade A.P.T. III (£450-£495).
- (d) HEATING AND VENTILATING ENGINEERING ASSISTANT. Grade A.P.T. V (£520-£570).
- (e) HEATING AND VENTILATING ENGINEERING ASSISTANT. Grade A.P.T. III (£450-£495).

Housing accommodation may be made available in certain circumstances to the successful applicant for post (a), if so desired.

Applications should be made on a form obtainable from the undersigned. Closing date Saturday, 22nd July, 1950.

DONALD GIBSON, M.A., A.R.I.B.A., M.T.P.I., City Architect and Planning Officer.

14, Warwick Row, Coventry. 6th July, 1950. 4708

WARWICKSHIRE COUNTY COUNCIL.  
ARCHITECT'S DEPARTMENT.

Applications are invited for the under-mentioned appointments on the established staff:

- ASSISTANT ARCHITECT. A.P.T. VII, £635-£710 per annum.
- ASSISTANT ARCHITECT. A.P.T. VI, £595-£660 per annum.
- ASSISTANT ARCHITECT. A.P.T. V, £520-£575 per annum.
- ASSISTANT ARCHITECT. A.P.T. IV, £480-£525 per annum.

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

Application forms can be obtained from C. H. Elkins, F.R.I.B.A., A.R.I.C.S., Shire Hall, Warwick.

L. EDGAR STEPHENS, Clerk of the Council. 4728

ESSEX COUNTY COUNCIL.  
COUNTY PLANNING DEPARTMENT.

The Essex County Council invite applications for the following appointments on the established staff of the County Planning Department:

(a) FOUR SENIOR PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£660 a year) at Wanstead, Colchester and Braintree.

(b) ONE SENIOR PLANNING ASSISTANT (Roads) at a salary not exceeding the maximum for Grade VI, A.P.T.D. (£660 a year), at Broomfield.

(c) TWO PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£495 a year), at Broomfield and Wanstead.

(d) ONE DEVELOPMENT CONTROL CLERK, at a salary not exceeding the maximum for the Clerical Division (£352 a year females and £440 a year males), at Romford.

(e) ONE DRAUGHTSMAN, at a salary not exceeding the maximum for the General Division (£308 a year females and £385 a year males, at 33 years of age), at Romford.

The salary for posts (a) to (d) will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post concerned as stated above.

Candidates for post (a) must be Corporate Members of the Town Planning Institute, and preference will be given to those persons who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for post (b) must be Corporate Members of either the Town Planning Institute, Royal Institution of Chartered Surveyors, Institution of Civil Engineers or Institution of Municipal Engineers. They must have had previous planning experience, preferably in connection with road proposals for Development Plans and the layout of the road framework of large housing estates, neighbourhood units, etc.

Candidates for post (c) should have had good general experience in a planning office with regard to development control and basic survey, and have passed the Intermediate Examination of the Town Planning Institute or some other recognised professional institution.

Candidates for post (d) should be competent typists and be able to deal with all the non-technical work relating to Development Control under the Town and Country Planning Act, 1947.

Candidates for post (e) should be neat and expeditious draughtsmen, and will be required to produce, under supervision, all types of planning maps, tracings from Ordnance Survey maps, both in pencil and ink, and be expert colourists in water colour and ink.

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

The Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, as from time to time amended, and as adopted by the County Council, is at present applicable to persons appointed on the established staff.

Canvassing, directly or indirectly, will disqualify.

Applications must be made on a form to be obtained from the County Planning Adviser, Broomfield Place, Broomfield, Chelmsford, to whom they should be returned not later than 22nd July, 1950.

JOHN E. LIGHTBURN, Clerk of the County Council. 4704

IMPERIAL WAR GRAVES COMMISSION.

Applications are invited to fill the post of FIELD INSPECTOR, Pakistan, in the India and Pakistan District. Candidates should be engineers or architects, with practical detailed knowledge of monumental stone work, have had experience of Graves Registration and Enquiries work during the war, and preferably be under 45 years of age. Experience of India and Pakistan is essential.

Preference will be given to single men. Initial contract 2 years. Salary scale £500-£20-£625 per annum, plus Foreign Service allowance at present at the rate of about £1.195 per annum for a married man accompanied by his wife, £735 per annum for a married man unaccompanied by his wife, or £585 per annum for a single man.

Applications to be addressed to Appointments Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, Bucks. 4721

CROWN AGENTS FOR THE COLONIES.

ASSISTANT ARCHITECT required by the Bermuda Government, Public Works Department, for one year, with prospect of permanency. Salary £800, rising to £900 a year. Free outward passage. Candidates should have had at least 5 years' experience in an Architectural and/or Planning Office, including experience in development planning and possess a thorough knowledge of building construction. Apply at once by letter, stating age, full names in block letters, whether married or single, and full particulars of qualifications and experience, and mentioning this paper to the Crown Agents for the Colonies, 4, Millbank, London, S.W.1, quoting M/N/26239/3A on both letter and envelope. The Crown Agents cannot undertake to acknowledge all applications, and will communicate only with applicants selected for further consideration. 4694

DEPARTMENT OF AGRICULTURE FOR SCOTLAND.  
VACANCIES FOR ASSISTANT ARCHITECTS (TEMPORARY).

Salary will be at a rate from £462 (age 25) to £735 per annum (headquarters Edinburgh or Glasgow); £448 (age 25) to £720 per annum (headquarters elsewhere in Scotland). Starting salary depends on age.

Age limits: Candidates must be at least 25 and under 35 years of age on 1st August, 1950.

Qualifications: Candidates must be Registered Architects by examination, or Registered Architects who, since registration, have passed any professional examination in Architecture recognised by the Architects' Registration Council of the United Kingdom as qualifying for registration under the Architects' (Registration) Acts. Candidates will be expected to possess experience in the design and erection of various types of buildings, including those required for Educational and Research purposes, and preference will be given to candidates with an agricultural background and/or experience in estate or country offices engaged in the design of farm steadings, cottages and general low cost housing, rural water supplies, etc.

Tenure: Appointments will, in the first instance, be temporary and non-pensionable, but there will later be open competitions for established pensionable posts.

Application forms obtainable from Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting J.153/50A. Closing date: 31st July, 1950. 4703

DEPARTMENT OF AGRICULTURE FOR SCOTLAND.  
VACANCIES FOR ASSISTANT SURVEYORS (TEMPORARY).

Salary will be at a rate from £462 (age 25) to £735 per annum (headquarters Edinburgh or Glasgow); £448 (age 25) to £720 per annum (headquarters elsewhere in Scotland). Starting salary depends on age.

Age Limits: Candidates must be at least 25 and under 35 years of age on 1st August, 1950.

Qualifications: Candidates must have obtained Corporate Membership of the Royal Institution of Chartered Surveyors (Quantity Surveying) or have passed a degree or other examinations necessary for obtaining Corporate Membership. Candidates will be expected to possess experience in the design and erection of various types of buildings, including those required for Educational and Research purposes, and preference will be given to candidates with an agricultural background and/or experience in estate or country offices engaged in the design of farm steadings, cottages and general low cost housing, rural water supplies, etc.

Tenure: Appointments will, in the first instance, be temporary and non-pensionable, but there will later be open competitions for established pensionable posts.

Application forms obtainable from Ministry of Labour and National Service, Technical and Scientific Register (K), York House, Kingsway, London, W.C.2, quoting J.152/50A. Closing date: 31st July, 1950. 4702

HUNTINGDON COUNTY COUNCIL.  
COUNTY ARCHITECT'S DEPARTMENT.

SENIOR ASSISTANT ARCHITECT, GRADE VII, A.P.T.

Applications are invited for the appointment of a Senior Assistant Architect. Salary Grade VII, A.P.T., £635-£720 per annum.

Applicants should hold the A.R.I.B.A. or equivalent qualification and have had suitable experience.

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

Forms of application may be obtained from S. J. Hands, A.R.I.B.A., County Architect, County Buildings, Huntingdon, to whom applications should be submitted by not later than Wednesday, 12th July, 1950.

JOHN KELLY, Clerk of the County Council.

County Buildings, Huntingdon. 29th June, 1950. 4727

ROYAL BOROUGH OF KINGSTON-UPON-THAMES.  
BOROUGH SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade III of the A.P.T. Division of the National Scale of Salaries, £450, rising by annual increments of £15 to £495, plus London weighting. Preference will be given to candidates who are Members of the Royal Institute of British Architects.

The appointment is a permanent one and 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. The appointment is subject to one month's notice on either side.

Applications, stating age, qualifications and experience, and accompanied by copies of not more than three recent testimonials, must be sent in a sealed envelope endorsed "Architectural Assistant," so as to reach the undersigned not later than 17th July, 1950.

A. W. FORSDIKE, Town Clerk.

Guildhall, Kingston-upon-Thames. June, 1950. 4729



# 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 (£250-£270 per annum).  
Applicants should be Associates of the Royal Institute of Chartered Surveyors (Quantity Sub-Division), and have had suitable experience in the preparation of Bills of Quantities, measuring and valuation for interim certificate, 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. "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 Wednesday, the 19th July, 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. 4736  
28th June, 1950.

## METROPOLITAN BOROUGH OF SHOREDITCH.

Applications are invited for ARCHITECTURAL ASSISTANTS on the permanent staff of the Council within the following salary grades:-  
(a) £665-£740 per annum (A.P.T. VII).  
(b) £590-£690 per annum (A.P.T. Va and VI).  
(c) £450-£495 per annum (A.P.T. II).  
Applicants should have had a recognised architectural training and good experience, and be competent to undertake the design of Municipal buildings, including multi-storey flats.

Applications, stating age, qualifications and experience, with the names of two persons to whom reference may be made, should be submitted to the undersigned not later than Friday, 14th July, 1950.

C. A. JAMES,

*Town Clerk.*

Town Hall, Old Street, E.C.1. 4735  
1st July, 1950.

## BRITISH ELECTRICITY AUTHORITY. EASTERN DIVISION.

Applications are invited for the following post in the Generation Construction Department (Civil Engineering Section) at Divisional Headquarters in North London:-

### ARCHITECTURAL ASSISTANT.

Commencing salary range £518-£636 per annum, which includes the London allowance.

Applicants should have had experience in the design and alteration of industrial buildings.

Initial salaries will be in accordance with previous experience and qualifications.

The salary is provisional and will be subject to negotiation through the medium of the appropriate negotiating body.

The appointment will be superannuable in accordance with the British Electricity Authority and Area Board Superannuation Scheme.

Applications, stating age, experience, present position, and salary required, and endorsed "Architectural Assistant," should be submitted to arrive not later than 14th July, 1950, to the Divisional Controller, British Electricity Authority, Eastern Division, Northmet House, Southgate, N.14.

W. N. C. CLINCH,

*Controller.*

Northmet House, Southgate, N.14. 4737

## THE COUNTY COUNCIL OF CLACKMANNAN. COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department:-

(1) **PRINCIPAL ASSISTANT TO THE COUNTY ARCHITECT.** The salary will be Grade VIII of the A.P.T. Division of the J.I.C. Scale, viz., £685 per annum, rising to £760 per annum, with placing according to qualifications and experience. Candidates must be Registered Architects and Corporate Members of the Royal Institute of British Architects. They should have had good practical experience in housing and all architectural work undertaken by a local authority.

(2) **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 posts are superannuated, and the successful candidates will require to pass a medical examination. Applications, stating age and details of past 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. 4701  
28th June, 1950.

# COUNTY COUNCIL OF DURHAM. COUNTY PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments in the County Planning Department:-

## TWO PLANNING ASSISTANTS. Grade III A.P.T. (£450-£495).

Applicants should be qualified to undertake survey and research work in connection with Development Plans.

The appointments are subject to such conditions of the National Scheme of Service as have been adopted by the Council; to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination by the Council's Medical Officer; to termination by one calendar month's notice in writing on either side. Canvassing, either directly or indirectly, will disqualify, and applicants must disclose, in writing, whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, whether married or single, and giving full particulars of qualifications, experience and present salary, and the names of three persons to whom reference may be made, must be delivered to the County Planning Officer, 10, Church Street, Durham, by the 17th July, 1950.

J. K. HOPE,

*Clerk of the County Council.*

Shire Hall, Durham. 4689  
26th June, 1950.

## GLAMORGAN COUNTY COUNCIL.

Applications are invited for the following appointments on the Permanent Establishment of the County Architect's Department:-

### (a) PRINCIPAL QUANTITY SURVEYOR. A.P.T. Grade X (£850-£1,000).

### (b) SENIOR ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade VIII (£685-£760).

### (c) ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade VI (£595-£660).

### (d) ASSISTANT QUANTITY SURVEYOR. A.P.T. Grade IV (£480-£525).

### (e) ASSISTANT ARCHITECTS. A.P.T. Grade VI (£595-£660).

### (f) ASSISTANT ARCHITECTS. A.P.T. Grade V (£520-£570).

### (g) ASSISTANT ARCHITECTS. A.P.T. Grade IV (£480-£525).

### (h) ESTIMATING ASSISTANT. A.P.T. Grade VI (£595-£660).

Candidates for posts (a), (b), (c) and (h) must be Chartered Quantity Surveyors of the Royal Institution of Chartered Surveyors (Quantities Section), and for (d) they must possess the Intermediate Certificate of the Royal Institution of Chartered Surveyors. With regard to posts (e) and (f), candidates must be Registered Architects and Associates of the Royal Institute of British Architects, and for post (g) they must possess the Intermediate Certificate of the Royal Institute of British Architects.

Application forms, together with particulars of the above mentioned appointments and conditions of service, etc., may be obtained direct from L. R. Gower, F.R.I.B.A., County Architect, County Hall, Cardiff, to whom applications must be returned in sealed envelopes, appropriately endorsed, not later than the first post on Saturday, the 22nd July, 1950.

A. CLIFFORD WALTER,

*Deputy Clerk of the County Council.*

Glamorgan County Hall, Cardiff. 4734  
28th June, 1950.

## COUNTY BOROUGH OF GATESHEAD. CHIEF ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Chief Architect's Department:-

### (a) ASSISTANT ARCHITECTS. Salary A.P.T. V (£520-£570 p.a.).

### (b) JUNIOR ARCHITECTURAL ASSISTANTS. Salary A.P.T. II to IV, according to experience (£420-£525 p.a.).

### (c) ESTIMATING AND POST CLERK. Salary A.P.T. IV (£480-£525 p.a.).

Candidates for (a) must be Registered Architects, and should be Corporate Members of the Royal Institute of British Architects. They should have a sound knowledge of construction and experience on schools, housing or public buildings.

Candidates for (b) must have passed the Intermediate Examination of the Royal Institute of British Architects, and should be quick and neat draughtsmen. The salary in this case will depend upon the length of experience after passing the Intermediate Examination.

Candidates for (c) should have had considerable experience in the preparation of estimates and costing of large capital and maintenance works, and should be capable of taking charge of a staff engaged on this work.

All these appointments will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful applicants will be required to pass a medical examination.

Applications, to be made on forms obtained from the Chief Architect, should be returned, together with copies of three recent testimonials to H. J. Cook, A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, 8, not later than Monday, 24th July, 1950.

J. W. PORTER,

*Town Clerk.*

30th June, 1950. 4738

# COUNTY BOROUGH OF GATESHEAD. CHIEF ARCHITECT'S DEPARTMENT.

## APPOINTMENT OF ASSISTANT HEATING AND VENTILATING ENGINEER.

Applications are invited for the position of Assistant Heating and Ventilating Engineer in the above Department. Candidates should have had considerable experience in the design and supervision of erection of all classes of New Heating, Hot Water Supply and Ventilation Systems and alterations or extensions to existing systems.

The salary will be in accordance with the National Scales for Technical Assistants, according to qualifications: (a) Unqualified, but fully trained Assistants below 30 years of age; (b) unqualified, but fully trained Assistants above 30 years of age; (c) fully qualified Assistants (i.e., A.M.I.H.V.E. by examination). (a) Grade I, £390×£15 to £435 per annum; (b) Grade III, £450×£15 to £495 per annum; (c) Grade IV, £480×£15 to £525 per annum.

Preference will be given to candidates who have passed the Final Examination of the Institution of Heating and Ventilating Engineers. The person appointed will be required to contribute to the Local Government and Other Officers' Superannuation Fund and to pass a medical examination.

Applications, on forms to be obtained from H. J. Cook, A.R.I.B.A., M.I.Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, 8, County Durham, accompanied by copies of not more than three recent testimonials (not returnable), must be received by the above by 10 a.m. Monday, 24th July, 1950. Canvassing will be a disqualification, and applicants must declare their relationship to any member or senior officer of the Council.

J. W. PORTER,

*Town Clerk.*

Town Hall, Gateshead, 8. 4739  
29th June, 1950.

## Architectural Appointments Vacant

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

**YOUNG ASSISTANT.** Interested in Ecclesiastical work required in private East Midlands office; student considered. Full particulars to Box 4167.

**ARCHITECTURAL ASSISTANT.** of Intermediate standard, required immediately by firm of Architects in West End of London; salary according to experience and qualification. Box 4403.

**EXPERIENCED ARCHITECTURAL ASSISTANT** required for Country Town office; car driver; salary £450, plus rent free flat (if married); £500 (if single). Reply with full details to Box 4577.

## GLOUCESTERSHIRE.

**ARCHITECTURAL DRAUGHTSMEN** urgently required by large company manufacturing Factory-made Buildings for home and export; fully experienced in the preparation of schemes and layouts, working drawings, and specifications for contract negotiations. Reply with age, experience, and salary required, Box 4650.

**SENIOR ARCHITECTURAL ASSISTANT** required, with good experience; capable of taking charge from sketch plans to final stage. Apply by letter, stating age, qualifications, experience, and salary required, enclosing copy testimonials, Mackintosh, Beecroft & Partners, 11, Orchard Street, Bristol, 1. 4602

**ARCHITECT AND SURVEYING ASSISTANT** required, of senior standard, for general commercial work in London. Write, stating age, experience, qualifications, salary, etc., to Waite & Waite, 36, Cavendish Square, W.1. 4651

**OPPORTUNITY** occurs in the office of London Architect concerned with large public works for SENIOR ASSISTANTS; knowledge of modern construction essential; adequate salary will be paid, according to experience and ability. Box 4712.

**ARCHITECTURAL ASSISTANT** required, varied general practice. Apply in writing, stating age, experience and training, Jack Cotton, Ballard & Blow, Architects and Surveyors, Northam Road, North Shields. 4713

**QUALIFIED RESIDENT ARCHITECT**, to supervise University contract in Nigeria, West Africa, required immediately. Applicants must pass normal medical test; house, car, medical attention, passages, etc., provided; engagement for two tours of 12 months with leave, but with opportunities for advancement beyond this period; salary £1,000 per annum. Write, stating age, qualifications, etc., to Messrs. Fry, Drew & Partners, 63, Gloucester Place, London, W.1. 4714

**ARCHITECTURAL ASSISTANT** required in busy London (West End) practice, to take complete charge of numerous small contracts; applicants must be capable of handling the work from start to finish, including negotiations with clients and authorities; office adjacent to main line and Tube stations; good salary and prospects. Apply with full details to Box 4676.

**ARCHITECTURAL ASSISTANTS** required immediately; good salary and prospects; 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience, and salary required. 4687



**EXPERIENCED ASSISTANT** required in London Architect's office for Housing and General Practice. Reply, stating age, full particulars of experience, qualifications and salary required, Box 4688.

**ARCHITECTS' CO-OPERATIVE PARTNERSHIP** require an ASSISTANT for working drawings and detailed design; salary according to experience. Apply in writing to 34, Gordon Square, London, W.C.1. 4673

**ARCHITECTURAL ASSISTANT** required by Birmingham Brewery Company; applicant must be quick and accurate draughtsman, able to prepare specifications for alteration work and to make surveys of existing premises. Write in confidence, stating fully, qualifications, experience, and previous positions held. Box 4674.

**SENIOR ASSISTANT** required for St. Albans office; must be quick, accurate draughtsman, capable of supervising contracts from sketch plan to final stage; preferably experienced in schools and factories; good prospects and salary for suitable applicant. Write in confidence, stating age and experience, etc., to Box 4675.

**ARCHITECTURAL ASSISTANTS.** Intermediate standard, required for office in St. Albans; good draughtsmanship essential; salary according to qualifications and ability. Full particulars to Box 4733.

**SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS** wanted immediately; school and factory experience an advantage. Write, stating age, experience, and salary required, to Phillips & Partners, 97, Mortimer Street, W.1. 4678

**ARCHITECTURAL ASSISTANT.** Intermediate standard, required in Architects' office of multiple shop company; interesting work; possibility of permanency. Write Box 4697.

**EXPERIENCED ASSISTANT** (age 25-30), preferably qualified but not essential, for Slough Architect's general practice; permanent position, with good prospects; salary by arrangement. Apply Box 4698.

**JUNIOR ARCHITECTURAL ASSISTANT** required, up to R.I.B.A. Intermediate standard, for London office; capable of executing working drawings, etc.; to start immediately; interesting work, and scope for applicant showing initiative; commencing salary £200-£250 per annum. Apply in writing, stating age, training, experience, and salary required, to: Elie Mayocas, F.R.I.B.A., 13, David Mews, W.1. 4491

**Cecil Howitt & Partners, Architects,** of St. Andrew's House, Mansfield Road, Nottingham, have vacancies for additional ARCHITECTURAL ASSISTANTS. Applications should be made in writing, giving particulars of experience, qualifications, and salary required. 4700

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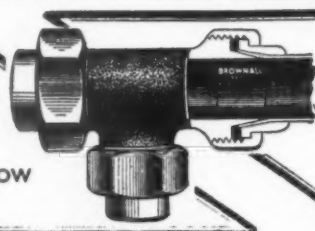
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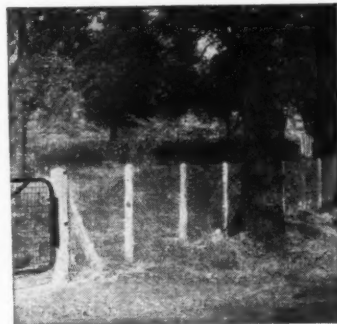
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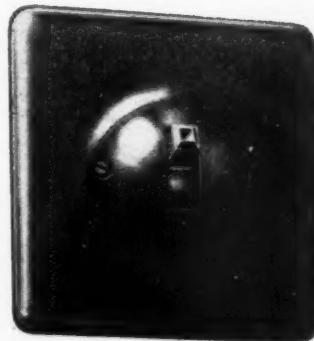


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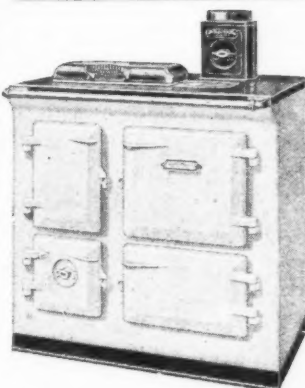
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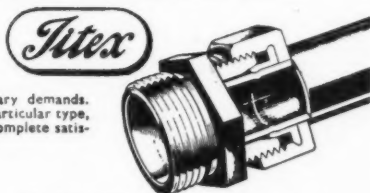


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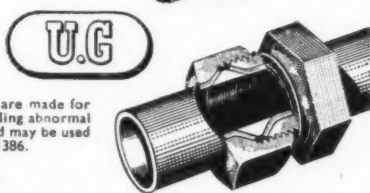
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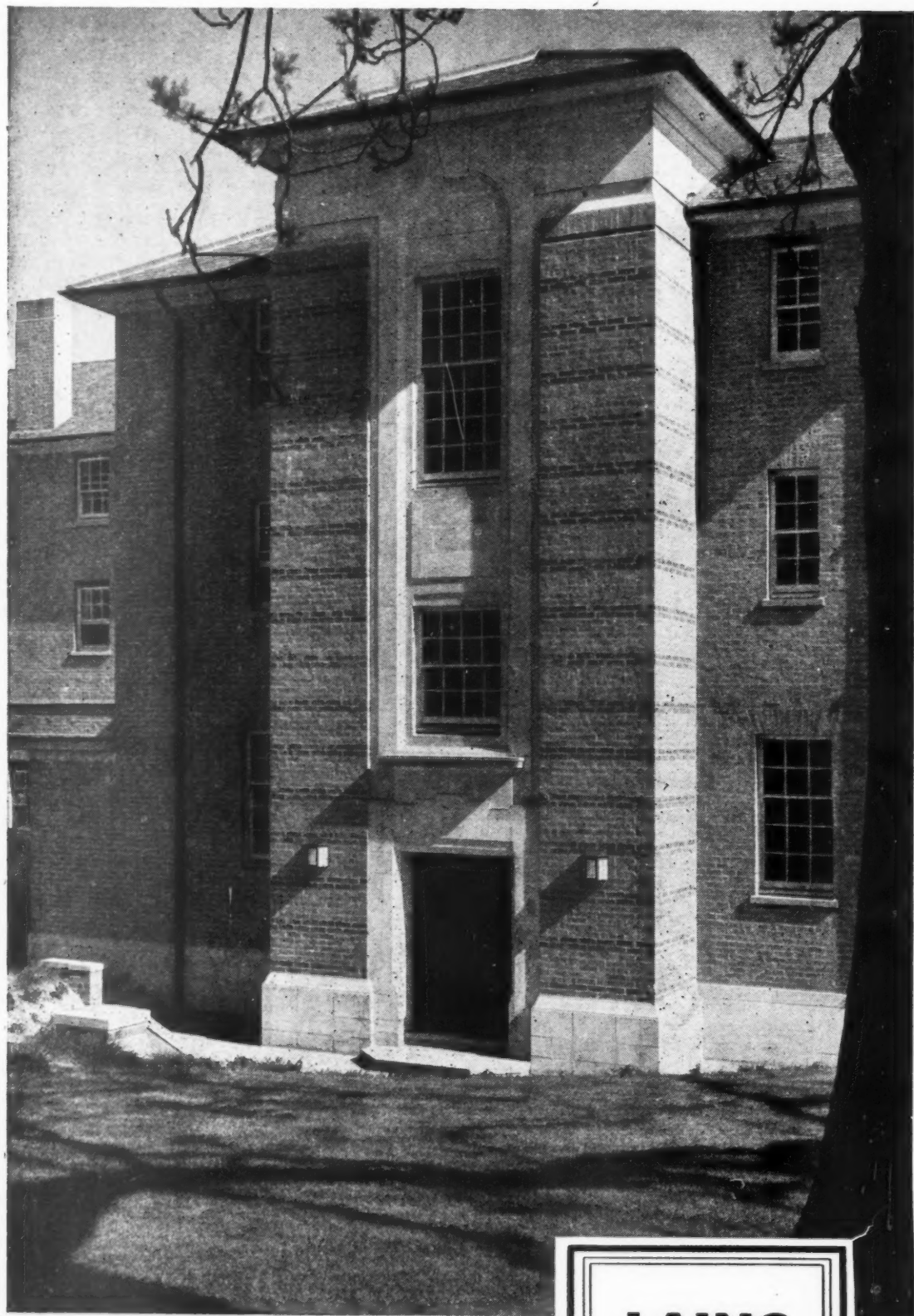
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