

THE ARCHITECTS' JOURNAL



standard contents

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

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

IEE	Institution of Electrical Engineers.	Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society.	32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers.	1, Grosvenor Place, S.W.1.	Sloane 8606
IHVE	Institution of Heating and Ventilating Engineers.	75, Eaton Place, S.W.1.	Sloane 3158
HBD	Incorporated Institute of British Decorators.	Drayton House, Gordon Street, W.C.1.	Euston 2450
ILA	Institute of Landscape Architects.	12, Gower Street, W.C.1.	Museum 1783
I of Arb.	Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.		Temple Bar 4071
IOB	Institute of Builders.	48, Bedford Square, W.C.1.	Museum 7197
IR	Institute of Refrigeration.	Empire House, St. Martin's-le-Grand, E.C.1.	Monarch 7391
IRA	Institute of Registered Architects.	47, Victoria Street, S.W.1.	Abbey 6172
ISE	Institution of Structural Engineers.	11, Upper Belgrave Street, S.W.1.	Sloane 7128-29
LIDC	Lead Industries Development Council.	Eagle House, Jermyn Street, S.W.1.	Whitehall 7264
LMBA	London Master Builders' Association.	47, Bedford Square, W.C.1.	Museum 3891
MARS	MARS Group (English Branch of CIAM).	34, Gordon Square, W.C.1.	Euston 2158-9
MOA	Ministry of Agriculture and Fisheries.	55, Whitehall, S.W.1.	Whitehall 3400
MOE	Ministry of Education.	Curzon Street House, Curzon Street, W.1.	Mayfair 9400
MOH	Ministry of Health.	Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service.	St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply.	Shell Mex House, Victoria Embankment, W.C.	Gerrard 6933
MOT	Ministry of Transport.	Berkeley Square House, Berkeley Square, W.1.	Abbey 7711
MOTCP	Ministry of Town and Country Planning.	32-33, St. James's Square, S.W.1.	Whitehall 8411
MOW	Ministry of Works.	Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council.	94, Petty France, S.W.1.	Abbey 1010
NAS	National Association of Shopfitters.	9, Victoria Street, S.W.1.	Abbey 5277/8
NBR	National Buildings Record.	37, Onslow Gardens, S.W.7.	Kensington 8161
NCBMP	National Council of Building Material Producers.	2, Caxton Street, S.W.1.	Abbey 5111
NFBTE	National Federation of Building Trades Employers.	82, New Cavendish Street, W.1.	Langham 4041
NFBTO	National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4.		Macaulay 4451
NFHS	National Federation of Housing Societies.	13, Suffolk St., S.W.1.	Whitehall 2881/2/3
NHBRC	National House Builders Registration Council.	82, New Cavendish Street, W.1.	Langham 4041
NPL	National Physical Laboratory.	Head Office, Teddington.	Molesey 1380
NSAS	National Smoke Abatement Society.	Chandos House, Buckingham Gate, S.W.1.	Abbey 1359
NT	National Trust for Places of Historic Interest or Natural Beauty.	42, Queen Anne's Gate, S.W.1.	Whitehall 0211/2
PEP	Political and Economic Planning.	16, Queen Anne's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association.	94, Petty France, S.W.1.	Whitehall 9936
RIAS	Royal Incorporation of Architects in Scotland.	15, Rutland Square, Edinburgh.	Edinburgh 20396
RIBA	Royal Institute of British Architects.	66, Portland Place, W.1.	Welbeck 5721
RICS	Royal Institution of Chartered Surveyors.	12, Great George St., S.W.1.	Whitehall 5322
RFAC	Royal Fine Art Commission.	22A, Queen Ann.'s Gate, S.W.1.	Whitehall 3935
RS	Royal Society.	Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts.	6, John Adam Street, W.C.2.	Temple Bar 8274
RSI	Royal Sanitary Institute.	90, Buckingham Palace Road, S.W.1.	Sloane 5134
RIB	Rural Industries Bureau.	35, Camp Road, Wimbledon, S.W.19.	Wimbledon 5101
SBPM	Society of British Paint Manufacturers.	20, Piccadilly, London, W.1.	Regent 6347
SCR	Society for Cultural Relations with the USSR.	14, Kensington Square, London, W.8.	Western 1571
SE	Society of Engineers.	17, Victoria Street, Westminster, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association.	30, Cornhill, London, E.C.3.	Mansion House 3921
SIA	Structural Insulation Association.	14, Moorgate, London, E.C.2.	Central 4444
SIA	Society of Industrial Artists.	Room 243, Empire House, St. Martin's-le-Grand, E.C.1.	Metropolitan 8344
SNHTPC	Scottish National Housing & Town Planning Council.	Hon. sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings.	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association.	75, Cannon Street, E.C.4.	City 6146 (3 lines)
TPI	Town Planning Institute.	18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation.	81, Cannon Street, E.C.4.	City 1476
WDC	War Damage Commission.	Devonshire House, Mayfair Place, Piccadilly, W.1.	Mayfair 8866
WEDA	Welfare Equipment Development Association.	61, St. Paul's Churchyard, E.C.4.	City 4263/4
ZDA	Zinc Development Association.	Lincoln House, Turl Street, Oxford.	Oxford 47988

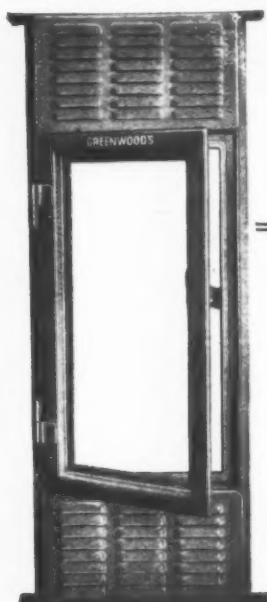
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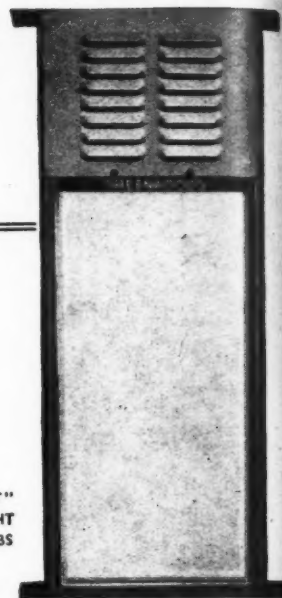
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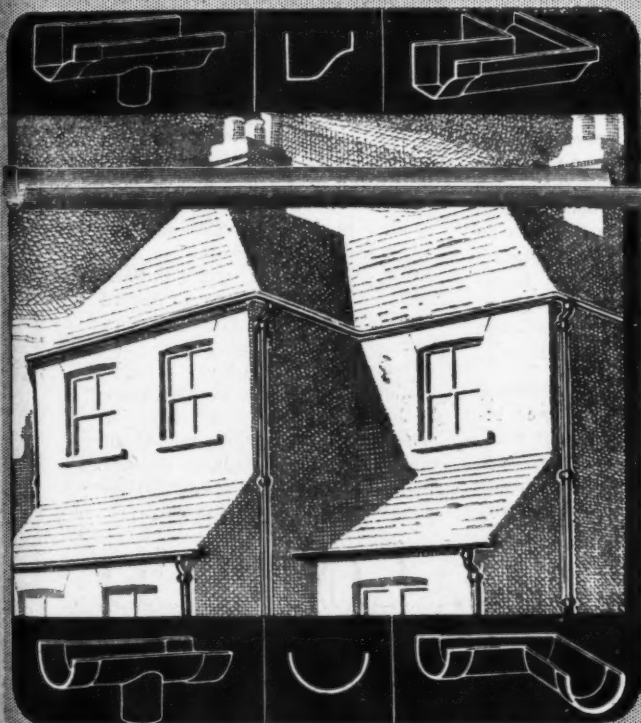
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POTTERY THROUGH THE AGES · NO. 17



ENGLISH TIN-GLAZED POTTERY

The art of making tin-glazed pottery was practised in Ancient Babylon. Its development can be traced from Persia to North Africa, and thence through Spain, Italy and the Netherlands to England, where it was introduced about 1550 by Flemish potters.

The Southwark and Lambeth districts of London became the first important centres for making "gallyware", as it was then called. Tin from Cornwall, fused with lead oxide and glass, was used to produce the special opaque white glaze or enamel which, at its best, gave the ware a surface somewhat resembling Chinese porcelain—although the body beneath was an ordinary porous earthenware. The ware was fired, then glazed and painted before being fired a second time. Painting on the friable, absorbent glaze demanded great skill and certainty of touch, but—com-

pared with earlier English pottery—the tin-glazed ware offered far greater possibilities for the use of bright colours, especially blues, greens, purple, red, orange and yellow.

From about 1628 onwards, wine bottles, posset pots, plates, dishes, mugs and drug jars of a distinctive English type were produced in London, Bristol and Liverpool. But the influences on English design and decoration of Flemish pottery, Rhineland stoneware, Italian polychrome maiolica and, above all, of Chinese Ming blue and white porcelain are clearly to be traced.

In the latter part of the 17th century, interchanges of pottery craftsmen between England and Holland took place, and many Dutch potters from Delft settled in Lambeth. Our illustration, based on an old painting by J. Laporte,

shows the arrival of some of these. The horse ferry between Lambeth and Millbank is seen in the foreground and, on the Lambeth side of the river, several potters' kilns.

All English tin-glazed wares eventually became known as delftware—although this type of pottery was being made in Lambeth long before Delft itself became famous. Most of the English delftware was made for practical use, but large dishes or "chargers" were sometimes used for decorative purposes, painted with biblical scenes, royal portraits, coats of arms, floral designs and geometrical patterns. After the introduction of cream-coloured earthenware by Josiah Wedgwood about 1765, the demand for the delightfully painted but expensive delftware gradually declined and the technique had practically disappeared by the end of the century.



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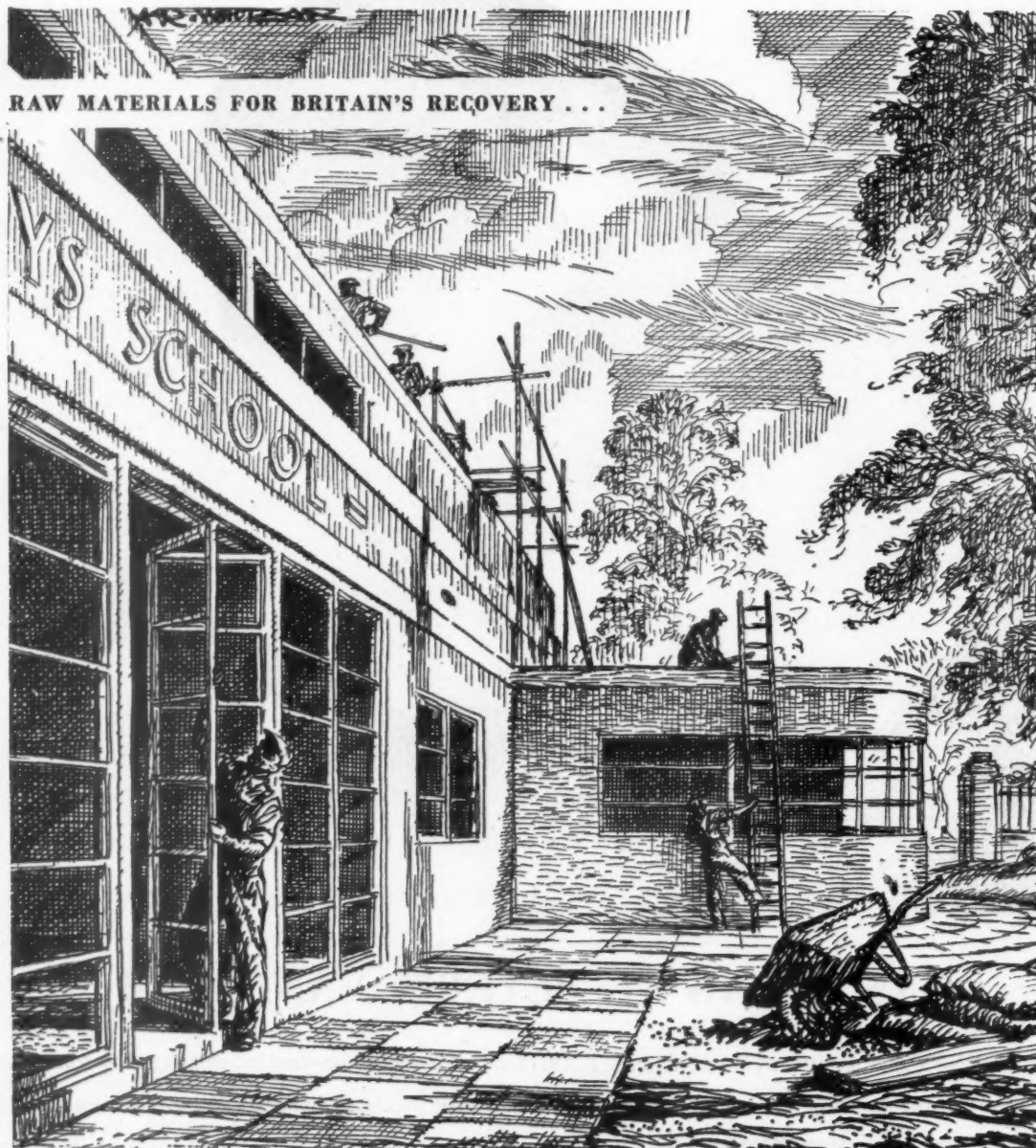
These overhead gas-fired radiant heaters installed in St. Peter's Church, Upton Cross, East Ham are unobtrusive, effective and economical.

moment they are turned on. They need only be in operation as long as the building is in use. And they demand no attention, nor do they produce ashes or dirt. No wonder gas-fired radiant heaters often show remarkable economies.



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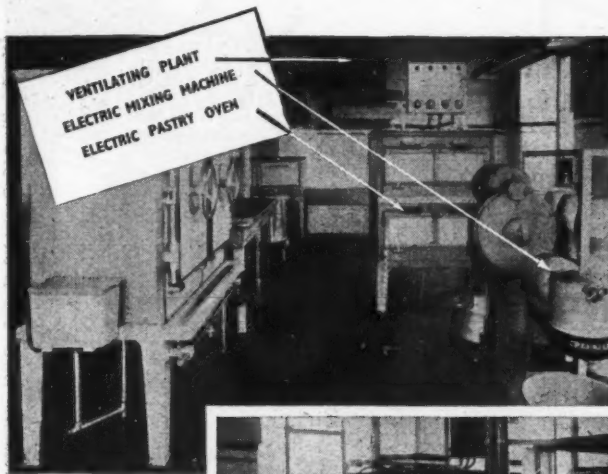
In a very literal sense cement lies at the foundations of knowledge, for it is being used in the building of Britain's much needed new schools. This requirement adds not a little to the enormous task of the Blue Circle Cement Organization in providing vast quantities of cement for the construction at home of electricity generating stations, hydro-electric schemes, factories, houses, etc., and for shipment abroad to earn hard currency—all essential to Britain's recovery.

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Britain's recovery.*



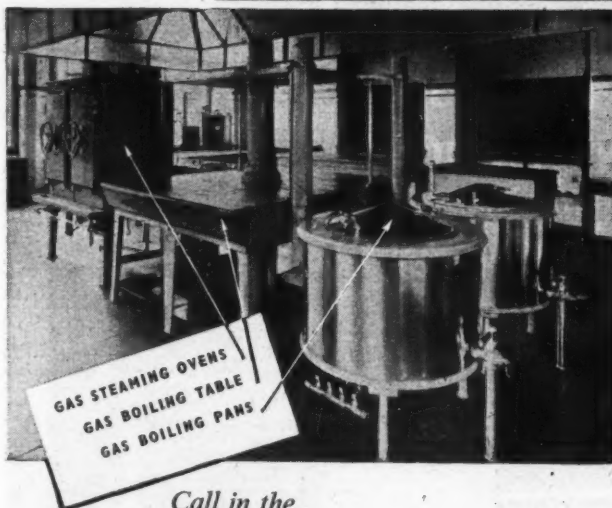
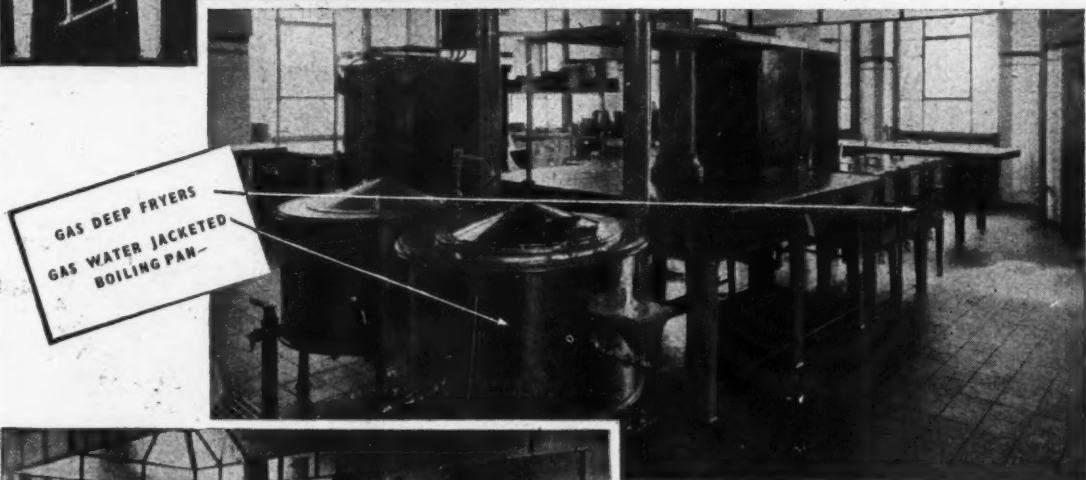
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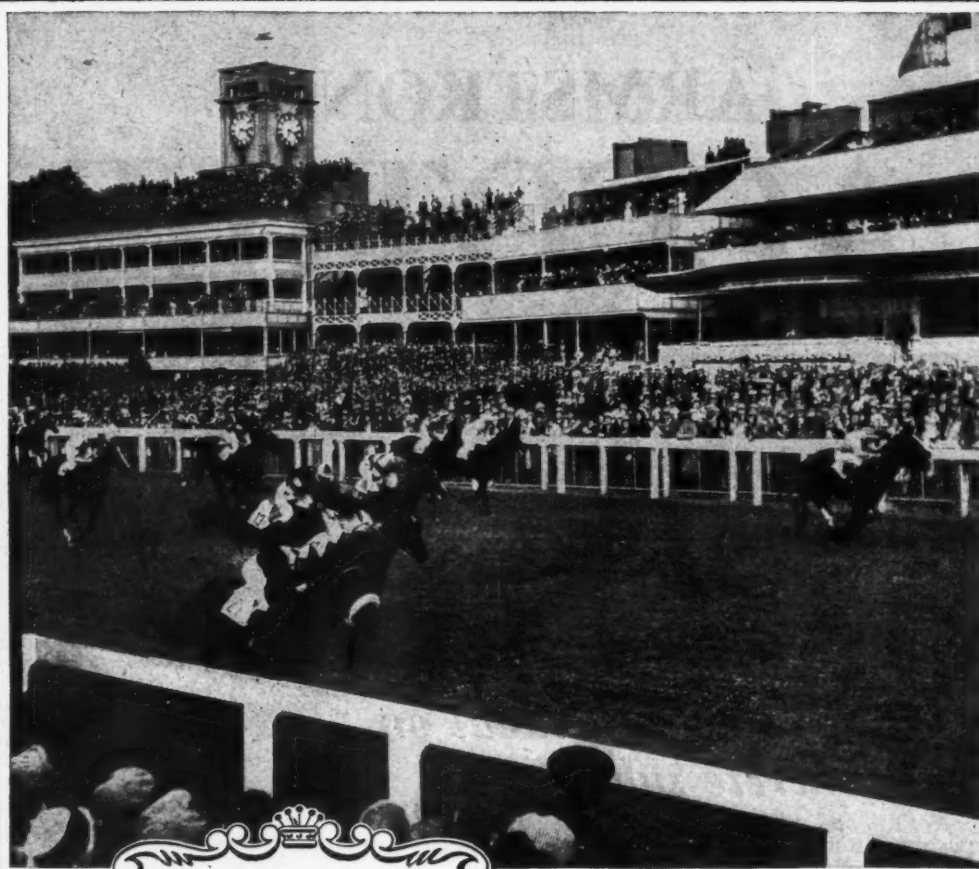
STEEL WINDOWS AND DOOR FRAMES

**Cowpers Row Re-development
WANDSWORTH
BOROUGH COUNCIL**

*Architects: Clifford & Culpin, F.R.I.B.A.
3, Southampton Place, London, W.C.1.*

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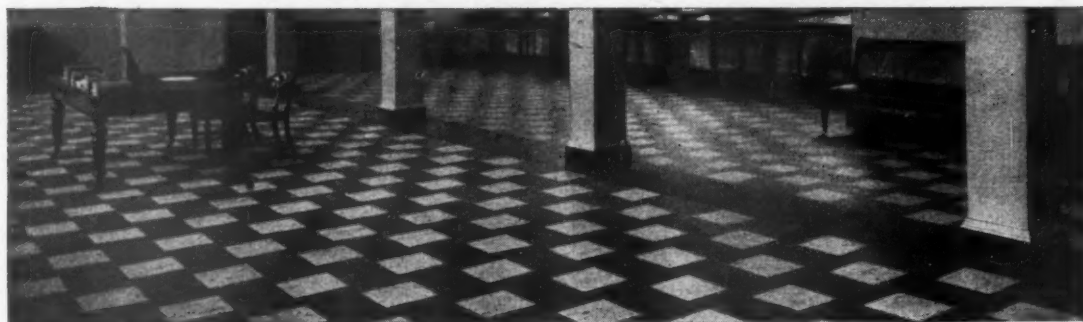
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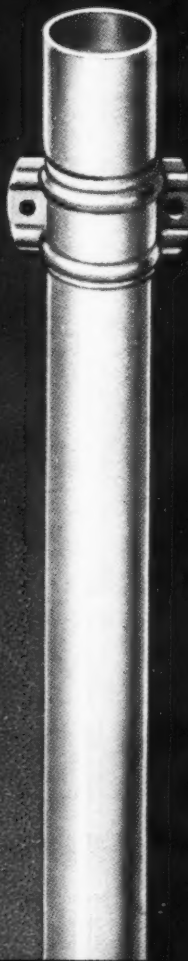
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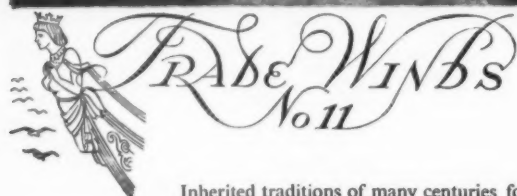
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*Richard Thomas
& Baldwins Ltd.*



Painting by Anna Zinkeisen



THE WOOL RACE

Inherited traditions of many centuries fostered in the British people the spirit of adventure, courage and independence. This strong love of freedom and enterprise was the means and foundations of our prosperity.

In 1850, gold was found in Australia and the gold rushes followed for almost a decade. Fast American built clipper ships were bought by British owners to take out emigrants. Crammed between decks the would-be fortune hunters suffered the acme of discomfort. Many of those who sought for gold failed in their quest, but turned their failure to success by farming the rich pastures of the Southern continent. The great sheep farms developed out of these pioneering efforts and wool, tallow, and hides became available as return cargoes. Decline in passenger fares made the voyage unprofitable for the American ships, which were also unsuited for the growing trade in wool. By 1860, only stout British built clippers of teak were in commission.

The wool voyages were made in the Autumn with the object of reaching London for the wool sales in January. Fishing vessels in the western approaches acted as scouts

for the homeward bound ships. They were well rewarded for carrying the news to the nearest port for transmission to London. On this advance information the lists for the first sales were made up. Later cargoes were offered at the next sale and not only did warehouse charges absorb the profits, but prices were lower.

The classic days of the wool trade were from 1875 to 1890. The opening of the Suez Canal and the introduction of steam, caused the famous China clippers to be transferred to the Australian run. Two of the most notable vessels were *Thermopylae* and *Cutty Sark*. The latter was the fastest ship in the trade and her name and reputation are still spoken of with reverence by all who go down to the sea in ships. Her best voyage was made in 72 days from Australia to London, and from 1877 her average was 77 days for her total of ninety voyages.

Most of the wool ships sailed from Sydney and Melbourne but unlike the tea trade of China the fastest vessel was always last to leave. For many years *Cutty Sark* held this coveted post of honour.

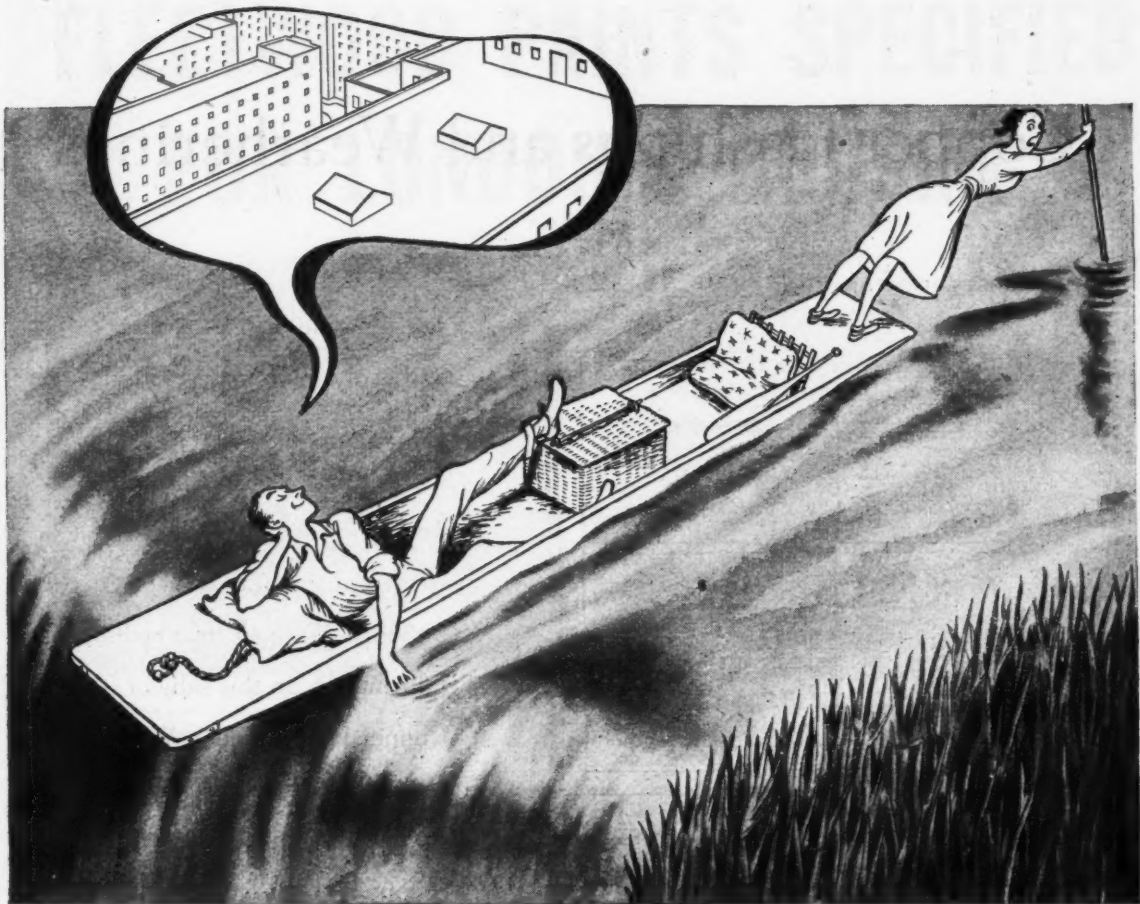
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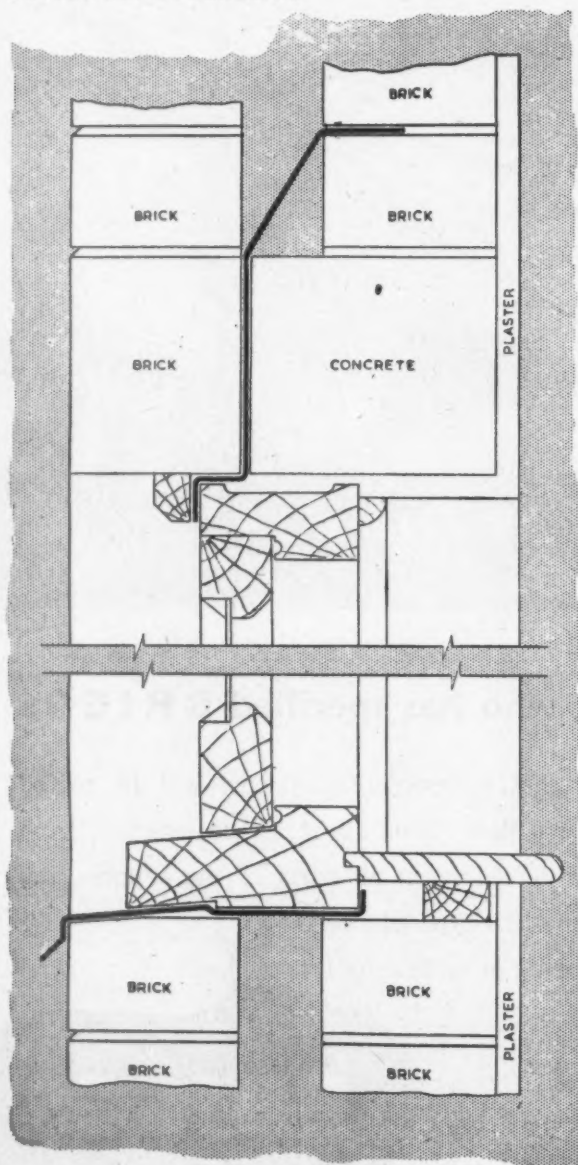
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COPPER DEVELOPMENT ASSOCIATION



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Hackney Borough Council
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Contractors: James Stewart and Sons (Tottenham) Ltd., London.



Block of Flats for L.C.C. at Percival Street, E.C.1
Architects: Messrs. Joseph, Lowndes Square, S.W.1
Director of Housing and Valuer to the L.C.C.:
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Contractors: W. H. Gaze and Sons Ltd., London.

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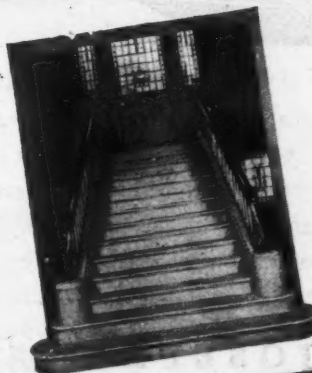


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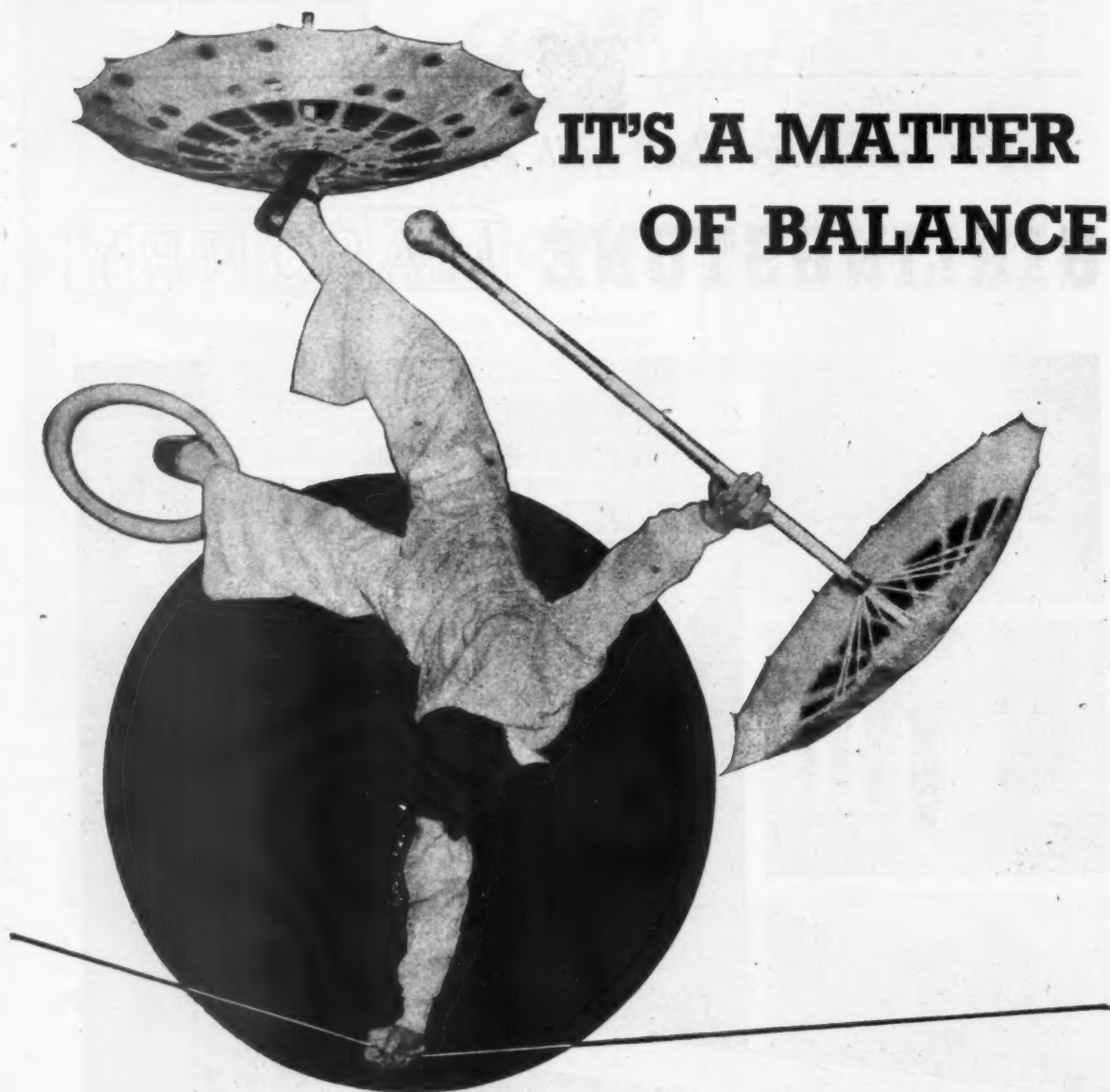
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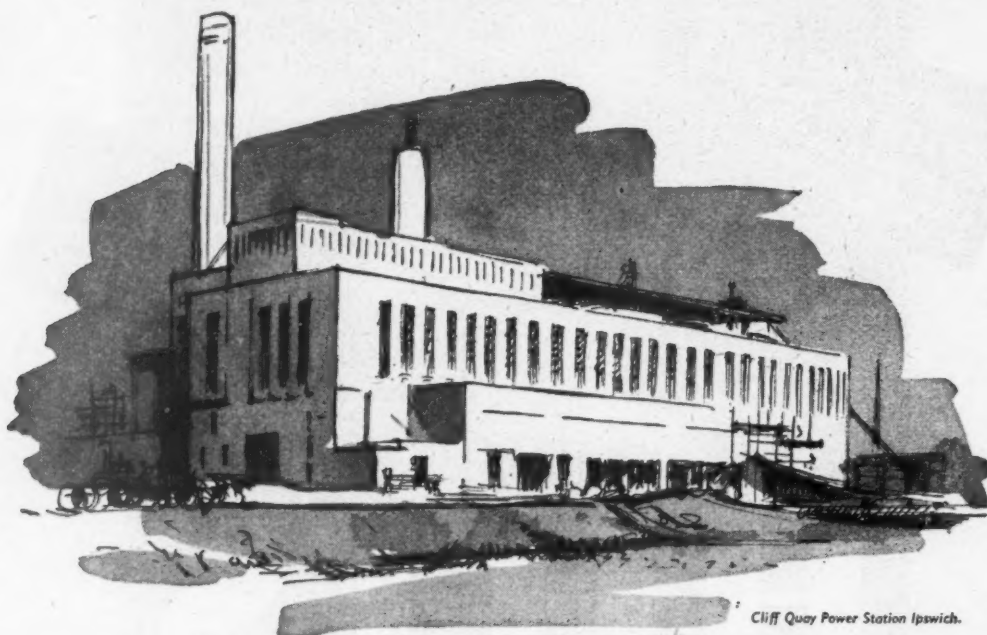
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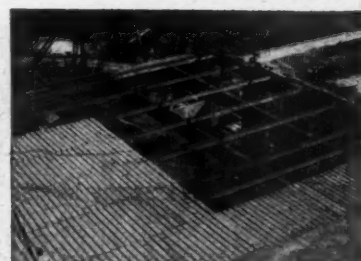
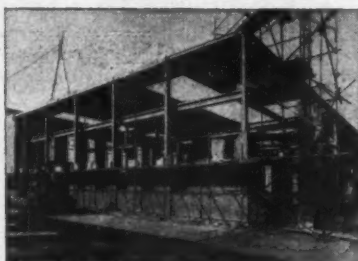
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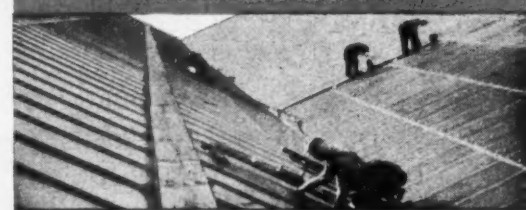
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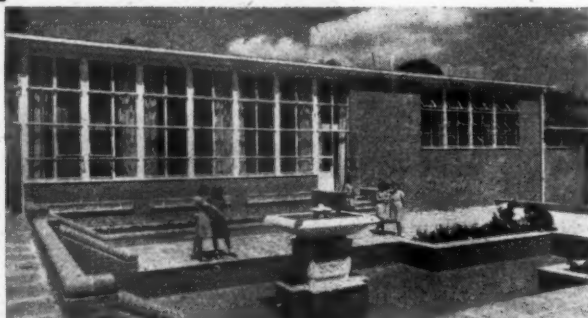
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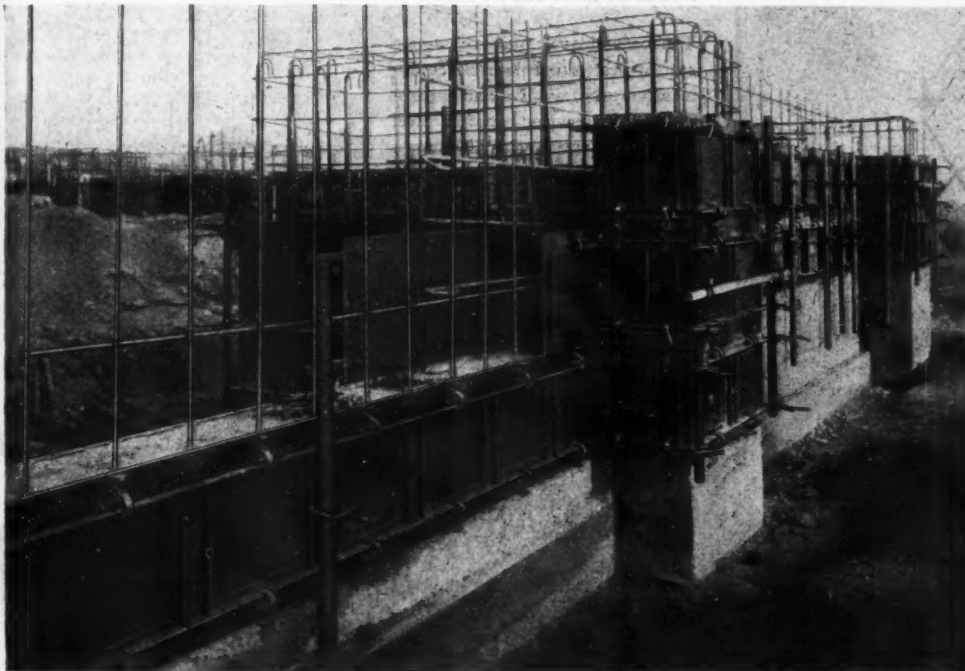
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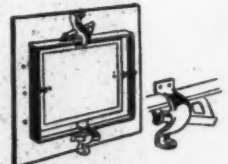
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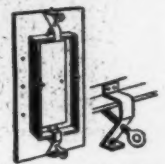
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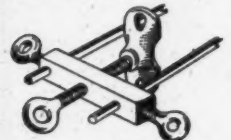
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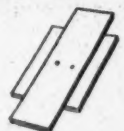
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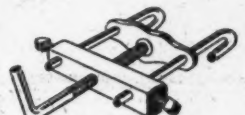
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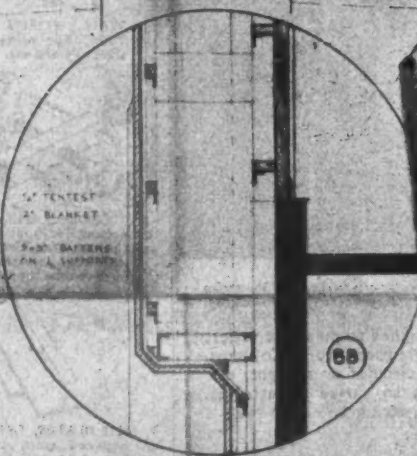


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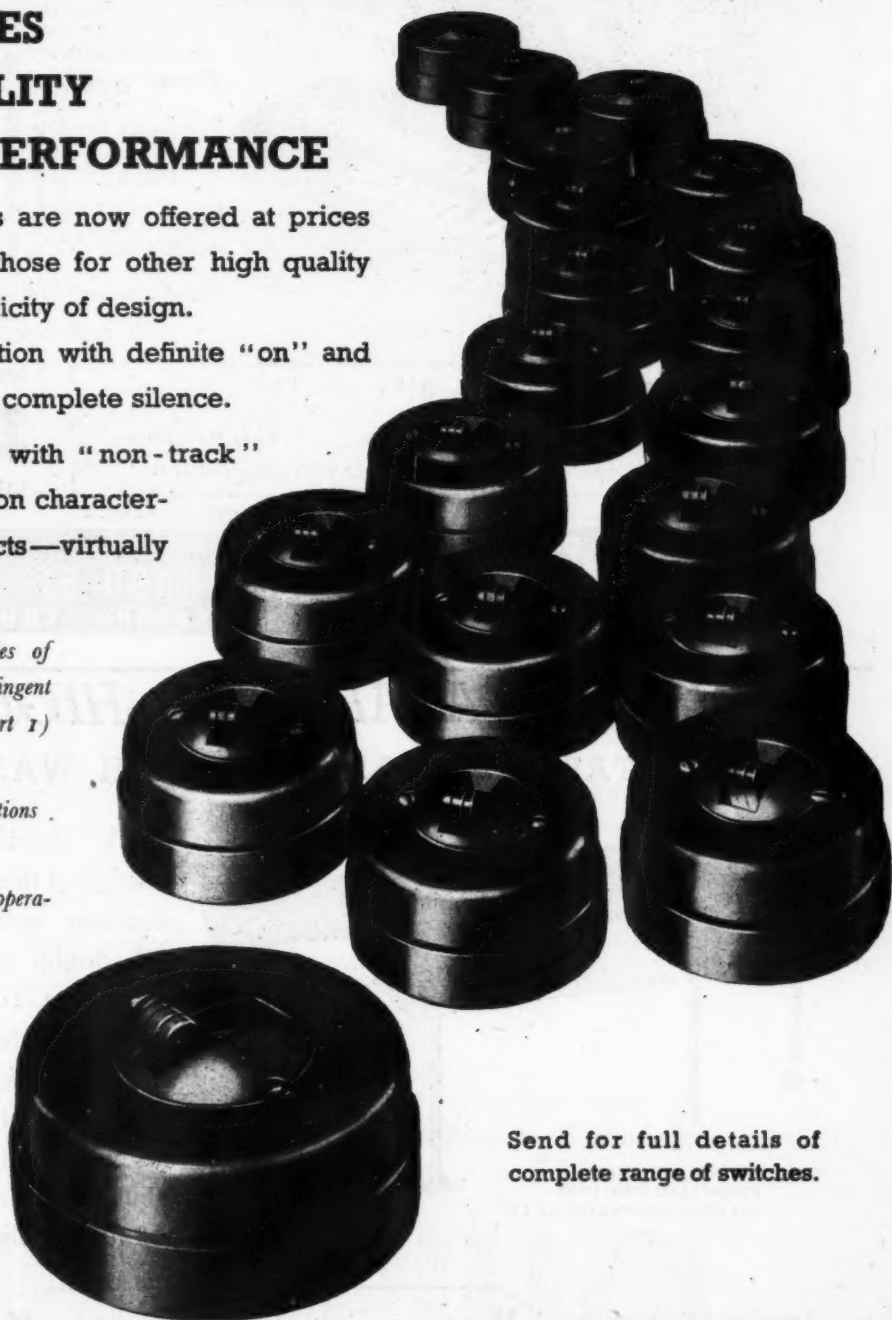
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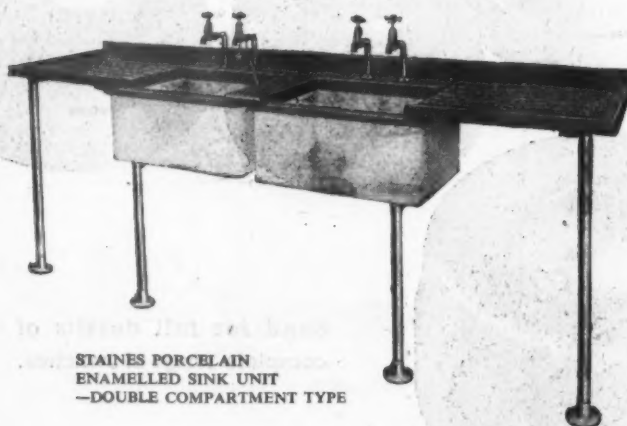
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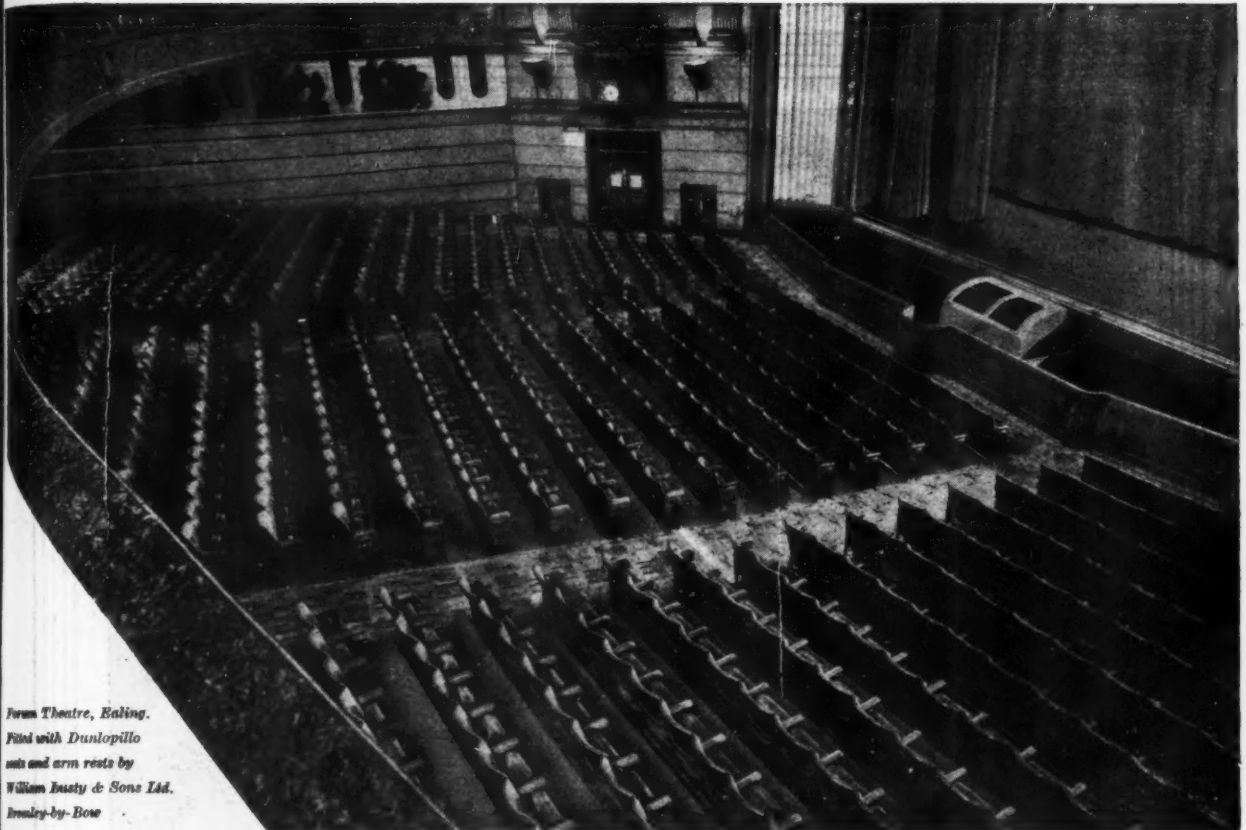
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DIARY FOR MAY JUNE AND JULY

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

AMSTERDAM. *International Exhibition of Industrial Design.* Stedelijk Municipal Museum. (Sponsors of British section, British Council and Council of Industrial Design.) UNTIL MAY 20

BRADFORD. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. SEPT. 12-17

BRIGHTON. *Health Congress. Pavilion Theatre, Corn Exchange.* (Sponsors, The Royal Sanitary Institute.) MAY 23-27

BRISTOL. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. JUNE 13-18

FOLKESTONE. *Twenty-third Annual Country Meeting of the Town Planning Institute.* W. L. Platts. *Administrative Problems in Relation to Securing Amenities.* Sir Patrick Abercrombie. *Some Planning Problems of Coastal Towns.* MAY 20-22

INVERNESS. *Trade Exhibition.* At the Caledonian Hotel, Inverness. (Sponsor, D. Anderson & Son Ltd.) UNTIL MAY 19

LEICESTER. *Leicester and Leicestershire Industries Exhibition and Trade Fair.* At the Granby Halls, Leicester. MAY 19-28

LONDON. *The Royal Academy Summer Exhibition.* At Burlington House, Piccadilly, W.1. UNTIL AUG. 7

Open-air Exhibition of Paintings in the Embankment Gardens. (Sponsor, LCC.) Weekdays. UNTIL MAY 21

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

Exhibition of paintings by Giorgio de Chirico. Summer exhibition of Royal Society of British Artists, Suffolk Street, S.W.1. UNTIL JUNE 11

Building and Engineering Exhibition (Equipment and Materials). Old Horticultural Hall, Westminster, S.W.1. Daily, 9.30 a.m. to 6.30 p.m., except Sundays. UNTIL MAY 27

A. F. Shannon. *Architectural Criticism.* At 36, Bedford Square, W.C.1. (Sponsor, AA.) 8 p.m. MAY 25

Open Day. Representatives of industrial organizations invited to visit National

Physical Laboratory at Teddington. 2.30 p.m.-6.30 p.m. MAY 26

Hampstead Seen. Exhibition of plans, drawings, photographs and paintings by Hampstead artists, architects and photographers. (Sponsors, Hampstead Artists' Council.) 12 noon to 7 p.m. every day. MAY 28-JUNE 25

Dr. N. Pevsner. *Balthasar Neumann.* Courtauld Institute of Art, 20, Portman Square, W.1. 5.30 p.m. MAY 31

RIBA Council Election Results. Charles Woodward and Sydney Redfern. *Questions and Answers in Practice.* At the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.) 6 p.m. JUNE 21

TPI Annual General Meeting. In the Assembly Room, Central Hall, Westminster. 5.30 p.m. JUNE 23

Furniture Design Conference. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.) JULY 18-22

Exhibition of Industrial Finishes, to be held at Earls Court. (Sponsor, CID.) AUG. 31-SEPT. 13

NOTTINGHAMSHIRE. *RIBA New Schools' Exhibition.* At the county branch library, Stapleford. UNTIL MAY 21

RIBA New Schools' Exhibition. At the county branch library, West Bridgford. MAY 23-28

British Architects' Conference. To be held at Nottingham. (Sponsor, RIBA.) JUNE 29-JULY 2

ST. ANDREWS. *Town and Country Planning Summer School.* At the University of St. Andrews, Fife. (Sponsor, TPI.) AUGUST 20-27

SOUTHAMPTON. *Design Week organized by the Council of Industrial Design.* Details to be announced locally. JULY 11-16

COMPETITIONS

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

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

NEWS

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Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis.

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

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

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

News of FACTORY DEVELOPMENT has been given by the Parliamentary Secretary to the Board of Trade.

Mr. John Edwards, speaking in the House of Commons recently, said that a total of 148 new factories and 337 extensions of existing factories, of 5,000 sq. ft. and over, were approved in the London and south-eastern region during the period December, 1944, to February, 1949. Of these, 42 new factories and 98 extensions had been completed.

CHEYNE WALK, CHELSEA, IS TO BE PRESERVED in accordance with the Town Planning Committee's recommendations.

These recommendations have been approved by Chelsea Borough Council. The houses in Cheyne Walk, which had been threatened by a development scheme, included the house in which Turner died and others of historic or architectural importance.

20th Century London



Central Criminal Court, Old Bailey. (1906)

Admiralty—Horse Guards Parade extensions	(1906)
and "The Citadel," The Mall	(1942)
Bank of England rebuilding	(1939)
British Museum—North Wing, Library and Parthenon Room	(1937)
Charing Cross Hospital	(1905)
Chelsea Bridge	(1937)
Cumberland Hotel, Marble Arch	(1934)
Empire Pool & Sports Arena, Wembley	(1935)
General Post Office	(1909)
Government Buildings, Storeys Gate	(1917)
Hampton Court Bridge	(1933)
Wandsworth Bridge	(1941)
Westminster Hospital	(1939)

HOLLOWAY BROTHERS

(LONDON) LIMITED

BUILDING AND CIVIL ENGINEERING CONTRACTORS
MILLBANK WESTMINSTER

From AN ARCHITECT'S Commonplace Book

CLEFT OAK IN BUILDING. [*From Woodland Crafts in Britain, by H. L. Edlin (B. T. Batsford Ltd.).*] In the days before power-driven saws became so common, boards were frequently obtained by cleaving. Oak was the wood most favoured, and the boards obtained in this way were called *clapboards* or *clobords*, literally cleft of cloven boards. Being wedge-shaped or "feather-edged," they were very suitable for the external weather-boarding of wooden houses, being set horizontally with the broader edge of each overlapping the thinner edge of that below, so as to shed rainwater and prevent it being driven in by the wind. Weatherboarded, timber-framed cottages are still commonly found in Kent and Essex, but nowadays the boards are almost invariably of sawn softwood, and the wedge-shaped cross-section is obtained by sawing an ordinary rectangular board lengthwise, holding it inclined at an angle to the blade of the circular saw. These softwoods must be painted, creosoted, or tarred to make them last, whereas oak clapboard had great natural durability.

★ *A statement about THE TREATMENT OF BUILDERS AND OWNERS OF BUILDING PLOTS was made recently by Sir Stafford Cripps:*

In replying to a question in the House of Commons he referred to the arrangement whereby people owning building plots on July 1, 1948, who started to build a house for occupation by themselves or an immediate relative by January 7, 1952, would receive a payment from the £300 million equal to the development value of the plot for the erection of the house, and might have their development charge set off against that payment. He said that it had now been decided to extend the date for this arrangement from January 7, 1952, to January 1, 1953.

In addition, special arrangements would be made for persons who on July 1, 1948, owned a single building plot and no other building land. If such an owner was prevented from building a house on his plot because the plot was compulsorily acquired, or a previous planning permission was revoked, before January 1, 1953, he would also be entitled to a payment from the £300 million equal to the development value in the plot for the erection of one house. If he started to build a house on another site before January 1, 1953, he would be entitled to have the development charge set off against that payment, in so far as it was sufficient to cover the charge.

These arrangements (a full payment from the £300 million and the right to have development charge set off against it) would also apply to an owner on July 1, 1948, of a single building plot as above defined if he either sold the plot for immediate development and assumed liability for the payment of development charge, or built a house on the plot and sold the site and house together at a price inclusive of charge, provided in either case that the charge was determined before January 1, 1953.

The closing date for the submission of claims against the £300 million was June 30 next, and none of the concessions referred to could be of any effect if the owner concerned had not submitted his claim to the Central Land Board in time, since he would not then be entitled to any payment.

FOUR NEW TOWNS' DEVELOPMENT CORPORATIONS HAVE PUBLISHED THEIR FIRST REPORTS.

These have been issued by HM Stationery Office at 1s. 6d. A foreword by the Minister of Town and Country Planning, Mr. Silkin, points out that the beginning of a social experiment so far-reaching and novel as a new town must be slow and unspectacular. The organization was built up from nothing;

offices had to be found and expert staff collected and set to work.

The Crawley development corporation states that it was given the task of developing the town of Crawley-Three Bridges to provide for a total population of 50,000, mostly from the overcrowded inner areas of Greater London. The site covers 5,920 acres, with the airport of Gatwick at the northern extremity, which closely affected the development of the new town. The corporation, it is stated, learned that the Ministry of Civil Aviation had considered raising the status of Gatwick to that of an international airport, with consequent diversion of the existing London-Brighton road and substantial restrictions on the height of buildings. As an international airport, Gatwick would have become a centre of employment for 3,000 people, and the corporation was opposed to this great enlargement.

The Hemel Hempstead development corporation reports that unless positive efforts are made to attract the middle income group there will be no balance in the town. If the right forms of employment and amenities can attract a balanced population, it is stated, there will still be many problems in the assimilation of the new inhabitants and the creation of a sense of community in conditions of large-scale immigration.

The Stevenage development corporation states that relations with existing Stevenage residents have steadily improved. Earlier fears of extensive demolitions have been allayed, and numerous personal contacts have been established between the corporation staff and members of the public.

The Harlow development corporation states that it is anxious to build some houses as soon as possible. In the hope that additional labour and materials may soon be available, detailed plans have been prepared for the erection of approximately 100 houses on a site in Old Harlow. The corporation was disappointed by the Government's order during 1948 restricting development to the building of civil engineering works. That necessity was unfortunate in more ways

than one. It gave a sense of frustration to members of the corporation's staff and people in the "exporting" areas who are hoping for homes in Harlow.

★ *THE CENTRAL LAND BOARD IS EXTENDING THE "NEAR-RIPE" CONCESSION.*

The National Federation of Building Trades Employers has received a letter from the Central Land Board which states that the "near-ripe" concession is to be extended to builders who were building before the war but who had no pre-war development on which to base a "near-ripe" ration.

The Board have now decided that payments in respect of eligible land held by such builders may be made as follows: For the first acre, 100 per cent. of the land's development value; for the next 4 acres, 75 per cent. of the land's development value; for the next 10 acres, 50 per cent. of the land's development value; for the next 85 acres, 25 per cent. of the land's development value; for all land after the first hundred acres, 10 per cent. of the land's development value.

Payments will be calculated by averaging the total development value of the firm's claim or claims in respect of land which it held on the operative dates (January 7, 1947, and July 1, 1948) over the acreage of that land. If, in a given example, a builder is claiming on 9 acres of such land with an aggregate development value of £1,800, his ration will be calculated on the average development value, i.e., £200 per acre.

The scale of payments announced above is without prejudice to the payments that may finally be made under the Treasury scheme in respect of the land concerned. The Board's letter to the National Federation states that the amount of the latter payments cannot now be anticipated, but it is the intention that it shall not be less than what is now announced.

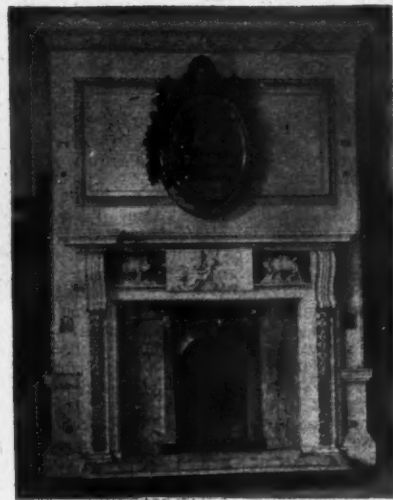
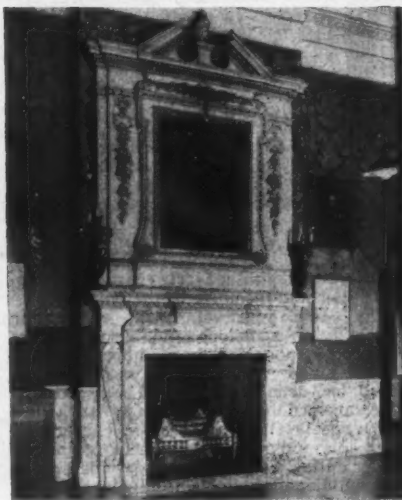
The letter concludes by saying that any builder who is entitled to a standard "near-ripe" ration (i.e., on the basis of previous development), who would prefer the new method, may opt for it.

Readers are reminded that the LCC Housing Exhibition closes today at 5 p.m. They are invited to send their comments on the Exhibition to the JOURNAL. Comments already received are published on page 451.

The LCC completed 2,081 dwellings in the three months ended March 31. Of these permanent dwellings, 2,011 were new and 70 were war-damaged buildings rebuilt. The LCC rebuilding programme is nearing completion; only 242 war-damaged dwellings have to be rebuilt.

The labour force continues to increase and the supply of building materials to improve, except for structural steel and steel tube.

The Council has now acquired, or is in the process of acquiring, over 92,000 acres inside and outside London for housing purposes.



Mansion to be Restored

Foots Cray Place, a Palladian villa at Sidcup, Kent, built after the style of Mereworth Castle 200 years ago, is to be restored by the Kent education authority at a cost of £10,000. The decision to preserve the building and use it as a children's museum followed strong recommendations

for its preservation from the Georgian Group and the County Planning Committee. The top photograph shows the south-east elevation. Beneath it, reading from left to right, are fireplaces in the dining hall, the drawing room and the morning room.

HAMPSTEAD ARCHITECTS ARE CONTRIBUTING TO A LOCAL EXHIBITION.

A special section of the "Hampstead Seen" exhibition, to be opened at Studio House, 1, Hampstead Hill Gardens, on May 28, will show the possibilities and latent beauty of

Hampstead. Eleven sites have been selected. Each will be commented on by an architect or planner by means of drawings, plans or criticism. Two artists and a photographer will also be allotted to each site.

In addition to contemporary paintings of the borough by members of the Hampstead Artists' Council, who are organising the ex-

hibition, historic pictures of the district will also be on view. The whole exhibition is the work of local residents who are professional artists, architects or photographers, and will remain open for four weeks. The Hampstead Artists' Council was started during the war, and has 300 members all resident in the borough.

CONWAY CASTLE IS IN NEED OF REPAIR.

A report by the MOW on the results of a detailed examination carried out by the Ministry's Ancient Monuments staff states that the fabric of the castle and the town walls is undergoing a general, though slow process of disintegration. As a result of neglect their condition is such that a comprehensive scheme of preservation should be formulated and put into effect without further delay. The full extent of the work necessary to preserve these ruins may best be realized, says the report, if expressed in terms of manpower, based on the Ministry's experience of preservation work on Ancient Monuments. It is estimated that the treatment of approximately 35,000 square yards of castle walls, and the waterproofing of the wall-tops would occupy twelve men for 18 or 20 years. The preservation of the town walls would occupy a similar number of men for 15 or 16 years.

A special sub-committee of the Conway Borough Council, which has considered the MOW report, estimates that the repairs of the castle would cost £140,000 in labour alone.

THE FUTURE POLICY OF THE ARCHITECTS' BENEVOLENT SOCIETY will include the provision of homes for the aged.

Mr. Michael Waterhouse, President of the Society, announced this at the annual general meeting at the RIBA on May 3. He pointed out that this policy could not be carried out until enough money had been collected to provide and maintain the homes. Many supporters had been lost during the past year, and it was essential that the Society should try to enlist more subscribers so that they could continue their work and extend it in ways that would meet present conditions and benefit those who came to them for help.

During the meeting Mr. Waterhouse was re-elected President, Mr. H. S. Goodhart-Rendel was re-elected Hon. Treasurer, and Mr. Charles Woodward was unanimously elected Hon. Secretary, in succession to the late Sir Charles Nicholson.

NEWS IN BRIEF

A meeting of the RIBA Golfing Society was held on April 20 at Sunningdale Golf Club. The Sullivan Trophy was won by G. Felix Wilson. The afternoon four-ball bogey competition was won by F. W. Charity and H. L. Bloomfield.

The B of T announce that the President has appointed Mr. John Gloag and Mr. H. V. Lobb, F.R.I.B.A., to be members of the Council of Industrial Design. He has also re-appointed Mr. Leslie Gamage, M.C., Mr. E. W. Goodale, C.B.E., M.C., and Mr. P. G. R. Whalley, C.B.E., to be members of the Council on the termination of their existing appointment.

The Lancashire Education Committee is to spend one-half of one per cent. of the contract sum on sculpture and paintings for its schools.

Grey telephone kiosks may be provided by the Post Office in areas of exceptional beauty or architectural interest.

Mr. S. W. Wain, Section Head (Education), City Architect's Department, Bristol, has been appointed Deputy County Architect to the Cornwall County Council.

ARCHITECTURAL CRITICISM

ARCHITECTURAL criticism is in the news. The current controversy over LCC housing, which reaches another stage in this issue of the JOURNAL, has helped to create a renewed interest in the subject, and it is significant that the AA students, who once a year have the choice of the subject to be discussed at one of the AA evening meetings, have this time chosen architectural criticism. The AA meeting takes place next Wednesday, and many interesting points should be brought out. It will be a great thing for the profession if the outcome of this revival of interest is more frequent public discussion about architecture and the removal of some of the restrictions that are now imposed on the critic.

Why is it that the architectural critic is not in a position to express his views as freely as the critic of drama or literature? One reason is that adverse criticism may be considered libellous if the critic has not been invited to give an opinion. Theatre managers and book publishers ask for professional verdicts; architects do not. Another reason is that private architects are justifiably sensitive to criticism because of their professional position; adverse comments on their work suggest that they have not rendered good service to their clients. But this argument does not apply in the same way to architects working for local authorities, and it is their work—if only because at the moment they are doing most of the building—that is the subject of critical discussion just now. Architectural departments of local authorities exist for the benefit of the community rather than for individual clients, and they should be willing to listen to the opinions of the community. The LCC's invitation to architects to comment on the quality of their post-war housing schemes is a move that could well lead to a new freedom of architectural criticism if other authorities were to follow their example.

What is the value of architectural criticism? Many people doubt whether it serves any purpose at all. They point out that while a badly constructed piece of drama may be removed from the public eye after severe criticism, a badly constructed building will continue to exist whatever may be said or written about it. This, of course, is true. But it is possible to draw too close an analogy between criticism of buildings and of the other arts. The serious theatre or cinema critic, who is aware of the sociological implications of the play and film, seeks to guide public taste, since he is writing for the layman rather than the specialist. The architectural critic, on the other hand, can do little at the moment to foster a public demand for good architecture. When he writes at all he writes only for specialists. Architecture is almost ignored in the popular press. This is at the same time the cause and the result of the general public having lost the habit of looking at buildings critically.

If this vicious circle could be broken and greater recognition given to the importance of serious architectural criticism by the lay press, the public might begin to discover the new

world that exists above eye level. Nevertheless, it is obvious that the most useful form of criticism will often be too technical to have popular appeal; popular discussion must thus be supplemented by a free interchange of views within the profession.

The specialist is often so close to his job that he is incapable of seeing its faults or potentialities unless they are pointed out by another specialist. And he has his mind too full of the practical difficulties to which these faults may be attributable to be able to look at the result dispassionately. Yet the state of architectural criticism depends on his willingness to let architecture be judged by results. In the long run he and his profession have everything to gain from a free exchange of opinions, both when a building is still in two-dimensional form and when he offers it up, in its finished state, to the public view and to the verdict of his fellow architects.



The Architects' Journal

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

Phone: Whitehall 0611

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

GOING TO THE PICTURES?

What an artistic feast has been spread before the people of London. Pictures from Munich, from Vienna pictures and objet d'arts, armour in the Tower, to say nothing of the LCC Embankment exhibition of which more anon, and I had nearly forgot, last and least, the RA.

The best of Munich does not seem to compare with the Viennese and it makes one realize anew what magnificent collections we have of our own in the National Gallery and the Tate. In some surprising way it seems that the English people have discovered painting. The cynic may feel that the crowds who go to these shows regard them as free spectacles, but there must be a great and genuine interest in contemporary as well as earlier paintings in

spite of the efforts of the PRA and Signor di Chirico.

The Embankment exhibitions are an admirable effort of the LCC, though I have seen the protest from the Borough Group of artists complaining about some of the administrative details and an undignified rush to be first to nobble the best pitches, they suggest, will not encourage any but the very young or the mediocre to take part. The lack of protection for the works is also mentioned. I have not yet had a chance to look at this year's selection but I hope the LCC will invite the Borough Group to make suggestions.

PLASTIC PROPAGANDA

Abandoning his own wild and curly-headed pony on some cavernous waste shore, Chirico has leaped on to a pair

of shiny Newmarket buttocks behind Sir Alfred and, a sudden apostate, is now charging against the moderns. But the moderns have prepared a powerful flanking movement under the generalship of architect and chairman, Raglan Squire, called Operation School Prints Ltd.

You may have seen some of the School Print colour lithographs hanging in the Building Centre—pleasant enough but not by world-famous painters. Now they have issued a new series of six designs by some painters who are famous indeed—Léger, Dufy, Braque, Picasso, Matisse and Moore. They provide most potent propaganda with which to influence the rising generation.

The process by which they have been produced is new and interesting. The artist draws each colour on separate transparent plastic sheets instead of using the old method of stone or zinc plates. These plastic sheets can be rolled in a container and sent off to the printer by letter post. All the lithographs are of standard size so that schools can have frames with removable backs into which new prints can be placed as they come out. The idea is to add to the new series and to distribute the prints on an international scale.

EXPRESS DENIAL

The newspaper report that the Railway Executive was thinking of removing names from locomotives produced such a rapid denial that there



Members of the LCC staff viewing their own Housing Exhibition at County Hall. It closes today. See Astragal's note and architects' opinions on the facing page.

LCC HOUSING FIRST OPINIONS

Below is printed a first selection of architects' opinions on the work of the LCC Housing Department. They have been sent in response to the LCC's invitation and are based on the exhibition the LCC has arranged at County Hall following severe criticism of post-war LCC housing on the radio, in the JOURNAL and elsewhere. The JOURNAL accepted the LCC's challenge to publish the profession's opinions on their work. More opinions will appear in future issues and next week a pictorial summary of the exhibition will be published for the benefit of readers who have been unable to visit it. It closes today.

Lionel Brett, A.R.I.B.A. :

A seller's market in buildings is a critical time for architecture. When people will live in anything, experiment is facilitated, but shoddiness goes unpunished. All the more timely, then, your efforts to generate the heat of controversy, without which the arts soon freeze to death. Unfortunately, architects are a quiet lot, reluctant to criticize a colleague who may have been working under unstated difficulties. Constructive criticism is hard work; we know that at best it can only stop bad architecture, not evoke good. We are rather inclined to leave it to a handful of professional writers and get on with our jobs.

If we do that this time, we shall not be consulted again.

Mere subjective criticism (e.g., "I like Woodberry Down; I don't like Minerva Street") from a number of ill-assorted people is not helpful. Better to select some familiar standards and then to ask the sort of questions to which objective answers can be given. For instance:

1. Do these buildings carry on our London tradition, or contain the essence of what the world means by "London"?
2. Do they stand objective comparison with similar work in, say, Copenhagen, Zurich, Berlin or Stockholm?
3. Do they make full use of modern research into flat planning and flat services?
4. Will they create a cheerful, colourful, and humane environment for the children of Londoners?
5. Are they cheap?

I believe a poll among your readers would produce a "yes" to one question only—the last—and to that by British standards only.

William Crabtree, F.R.I.B.A. :

It would be, I think, unfair for me to attempt to criticize any of the designs in detail as the result of a quite cursory inspection of the drawings, but the general impression which the exhibition made on me was one of sadness and disappointment that so much labour and materials and money were being expended with what seemed, to my mind at least, to be a quite insufficient consideration of what really does constitute pleasant living conditions, and that architecturally, or from the visual point of view, the designs fell far short of the best that is being done in this country and elsewhere.

Professor A. E. Richardson, R.A. :

I have visited the housing exhibition arranged by the Valuers' department of the London County Council and desire to ex-

press my admiration of the result. The work includes both rural and urban development, and many examples of cottage dwellings and flats are on view.

From my knowledge of what has been achieved in other countries, it is well that people should understand how far ahead we are in England regarding these matters. Such results could only have been achieved by a corporation such as the London County Council with enlightened architects to advise.

I have looked in vain in the public Press for some acknowledgment of the fine work done by the valuation department of the LCC, and, having failed to find anything, I venture to send this letter to you.

Clough William-Ellis, F.R.I.B.A. :

Maybe it is the disarming cordiality of this notice (displayed in each bay of the LCC's exhibition) that foredisposes me to a more friendly view of the Council's impressive efforts than I gather is current amongst my confrères. It runs thus:—

"The Council will welcome the views and comments of qualified architects on the housing schemes comprising this exhibition. This invitation is addressed particularly to architects who have had experience in the execution of housing projects, as they will be aware of the limitations imposed by post-war conditions. They may be sent to the Clerk of the Council, or, if desired, forms are available on which visitors can make comments and deposit in the boxes at the exits."

For one thing, this formal offering of buildings and designs for buildings for free review by competent critics in the public press (on the analogy of book-reviewing) was one of the reforms aimed at by the Architecture Club founded nearly a generation ago by Sir John Squire and still in being as a popularizer of architecture. Fifty years back most of the working-class flatted blocks going up (the first I can recall) were still in what I called the "Pea-body-Pauperesque Style," and the vast change for the better seems, naturally, less dramatic to younger critics than to myself.

I will grant that none of the exhibits are a miracle of splendour and beauty that lifts up the heart as other buildings, modern buildings, can do and have done. They are, let us face it, definitely dull. They are not worse than that. But is even that one shortcoming inescapable? One's first quick answer, remembering what one has seen all over London (and not London only), is "yes." I chanced to go straight from County Hall to the architectural room at Burlington House, and I am bound to say that I did not feel that the RA had anything

may still, perhaps, be some power in public opinion. Nor, added the press office, will "the general practice of naming locomotives in suitable cases" be discontinued. This I take to be a piece of P.R.O.-ese, for the only "locomotives in suitable cases" are the models in the stations. (See, by the way, two good ones currently at Paddington.) So I think you may assume that names will continue as before, unless I am being wilfully dense and BR intends to build suitable cases for christening ceremonies.

*

Station name plates, on the other hand, are to be standardized in Gill Sans on an "ample" background of "regional colour"; 12 in. lettering at the incoming end of each platform and 3 in. lettering elsewhere. Similar signs, too, for the other essential information of which one so often stands in need.

*

In spite of some good signs I have seen lately on sundry re-built LNER stations, where they have used back-lit glass panels with white lettering on blue, I still regret the passing of the good, solid Victorian railway lettering, which had both character and legibility.

LAST DAY FOR COUNTY HALL

These words will appear on the last day of the LCC housing exhibition. So I hope any of my readers who haven't yet been will go now, and then send in their opinions of the work shown to add to the opinions from architects which the JOURNAL will be printing during the next few weeks at the invitation of the LCC.

*

I have said before how important I think it is for the profession to respond handsomely to the LCC's invitation, not because it happened to be the editor of this journal whose observations on the radio started the controversy, but because the exhibition sets a precedent that should be followed up. The outcome I would like to see goes much further than the justification of one critic or one effort at criticism; it is the establishment of a regular habit of public discussion of current architecture. Architects themselves have most to gain from such a discussion, and the LCC have shown willingness to encourage the idea.

ASTRAGAL

on the LCC in this matter, nor Park Lane on Poplar.

The inter-war housing estates suffered, we now admit, from this very same most respectable but desperate dullness, perhaps largely from the same cause. They were one-income group aggregations of too similar persons with too standardized requirements. The Smith family *per se* may be delightful, but multiplied a thousandfold, much less so. Which suggests that blocks of flats, necessarily expressing and reiterating Smiths, should have injections of something else. Collonaded ground floors with communally-available rooms, even shops, a *piano mobile* with higher windows for higher rooms and higher incomes, a few studios, and duplex flats, and so on.

And what's all this in denigration of balcony access? I like it. I so approach my present London quarters in a mews and love it. There it is a wide balcony along which a pair of fat carriage horses used to be led to bed over the coach house at ground level—but then balconies *should* be reasonably wide. I have certainly lived more fashionably, but never more agreeably.

But the main thing is this. There's nothing obviously wrong with all these schemes and plans except that there is nothing obviously and dramatically right with them. Hand someone a fairy wand and a sum representing not more than 1 per cent. on the contract cost, and in the right hands you could have a transformation from dull decency to delight. A fountain, a plaque, a mural, a hundred *petite soigns*, just one apt gesture, an oblation to splendour and gaiety, and the thing is done.

A mot juste, to transmute an official notice into an epigram.

Edward D. Mills, F.R.I.B.A.:

I have viewed with considerable interest the exhibition of drawings and photographs illustrating the LCC's housing projects. It is encouraging to see that the problem is being tackled in an energetic manner, and the opportunity of making comments and criticisms is particularly welcome. As an architect with experience in housing, I am glad of the opportunity of availing myself of the invitation to comment on the schemes, particularly as the LCC has the opportunity of setting the standard for other housing authorities.

Without making a detailed criticism of individual projects, the problems of offering constructive criticism is a difficult one, in view of the many and varied schemes and the differing circumstances under which they were planned. The principal defect which is apparent in all of the schemes appears to be related to the architectural outlook of the designers. The Georgian tradition in housing, founded by the late Topham Forrest, is continued in the present LCC housing work with minor modifications, and this, together with the fairly rigid adherence to type plans, seems to have a deadening effect on the Council's housing architecture. Practically all the schemes have steeply pitched roofs for no apparent reason, windows are generally too small and divided into illogically small panes, and sun balconies are not designed as outdoor extensions of living rooms, but as mere projections on a flat elevation. Many of these balconies have completely solid walls and are insufficient in size to be comfortable for the purpose for which they are intended. If the housing projects could be freed from this Georgian approach, which considers a block of flats as an enlarged house and treats the elevation accordingly, it would undoubtedly give new life to the appearance of these blocks.

The scarcity of land for housing in London makes the tall block of flats the only solution to large-scale housing for built-up areas, and when these blocks are considered

as a number of dwelling units forming one block, and this fact is expressed in the outward appearance, then the buildings begin to acquire a genuine architectural character. The best examples of this approach can be found in contemporary Swedish and Swiss housing, and in some of the projects completed in this country by private practising architects, in many cases commissioned by local authorities. Where this approach has been made, for example in the elevations of the Woodberry Down blocks 40-48, the great improvement is both noticeable and welcome.

In view of the shortage of open space in London there appears to be a very strong case for building flats with flat roofs which can be used as roof gardens, and for increasing the height of such buildings so that the free area around the blocks can also be increased. The researches of Professor Walter Gropius in Germany before the war proved the value of high building development with increased open space, and the buildings he designed around Berlin are still some of the finest examples of contemporary low rental housing in the world.

The detailing of the average LCC housing scheme is insufficiently considered, and again useful reference could be made to the care with which the Scandinavian and Swiss architects detail such important features as balconies, entrances and overhangs.

There appears to be little consideration for the material in which the schemes are constructed, and reinforced concrete box frame flats at Minerva Street look very similar to brick-constructed blocks elsewhere. The box frame system has a great deal in its favour for economy of material and speed of erection, particularly when the non-structural walls are treated as panels of a contrasting material to the box frame, and this system of construction can be used most economically with maisonnette or duplex planning, which gives the advantage of the balcony approach plan and at the same time eliminates many of its disadvantages. I was surprised to see that this line of development has not been seriously considered by the Council's architects. From the examples of this type of planning both in this country and abroad it is well worth serious study.

I have little comment to make on the Council's cottage housing estates, as, although the Georgian tradition is still followed, it is obviously more suitable for small cottages than for large blocks of flats, apart from the fact that it is illogical to copy in one generation the traditions of a previous age. Housing design should be consistent with the general trends of contemporary thought rather than related to the past, however good that may have been. The internal arrangements of many of the cottages are a vast improvement on the pre-war council house, but the external appearance makes no concession to contemporary architectural trends, and steeply pitched roofs, small paned windows, and Georgian doorways are still seen in the majority of the estate projects. On the question of the layout of cottage estates, the latest LCC schemes appear to follow the tradition of the St. Helier and Dagenham estates, planned to make an attractive pattern on paper, but failing to give visual satisfaction. Too little thought has been given to the three-dimensional town planning requirements of these schemes, so that the result is a collection of cul-de-sacs and crescents, which look attractive on drawings but which, in practice, tend to be monotonous and characterless. The logical development of the genuine Georgian tradition in the terrace house and terrace crescent would, I am convinced, produce better architecture and greater spaciousness on the estates; one of the outstanding examples of this being the Ministry of Health's three-storey terrace house, which has very attractive possibilities. Even if the present policy of building semi-

detached houses must be continued, once again the continental examples previously quoted can offer a great deal of material which should be studied by the Council's housing department.

I hope these comments and criticisms will be of value to the Council and that many other architects will add their views, as a great deal of the architectural future of this country depends upon the standard of work carried out by important public authorities such as the LCC. It is hoped that not only architects will respond to this frank appeal of the Council for comments, but that the Council will respond to the comments and suggestions made by architects, both by instilling a new spirit into their own designers and by increasing the number of contemporary architects in private practice commissioned by the Council to carry out part of the LCC housing programme.

Colin Penn, A.R.I.B.A.:

I accepted your invitation to comment on the exhibition of LCC housing with some hesitation. The architects within the LCC who designed these buildings—though their names are never mentioned—may well feel aggrieved because they are unable to answer back. On the other hand, criticism of new buildings of all kinds is badly needed in the interests of architecture, and should be encouraged.

A visit to the exhibition dispelled my fears to some extent. There is a uniformity about these buildings which suggests irresistibly that design is governed by imposed policies at least twenty years out of date, which have completely stifled all initiative on the part of the designers.

You ask for comments on appearance rather than on planning. This is a pity, for one can hardly separate these two aspects of architecture, and perhaps the most useful criticism—useful, that is, from the point of view of the tenant—could be directed at the plans. One must at least say that the layouts have not progressed very far since the days of the totally-enclosed courtyard.

In my opinion the exhibition does not contain a single really fine elevation. Blocks 40 to 48 to the Woodberry Down Estate are the best—very pleasant indeed. The Council does not seem to regard them very highly, however, for I could find no plans of them, nor do they appear to be referred to in the notes supplied to visitors.

The outstanding faults can be tabulated as follows:—

1. Institutional appearance, due mainly to the use of sash windows—in my opinion unsuited to modern low rooms and inferior in performance to casements.
 2. External access balconies—a liability both externally and internally.
 3. Use of individual balconies for "architectural" effect—some flats have them, while others, indistinguishable otherwise, have not.
 4. Unskilful use of fairly steep tiled roofs—one sees some appalling botching at junctions of blocks and changes of level.
 5. Solid fuel fireplaces, leading to a forest of chimneys—the aesthetic drawbacks of which are of less importance than the practical ones.
 6. Determination not to experiment.
- Emphatically I do not think that a low standard results from the preparation of designs in the offices of local authorities themselves. The few designs by private architects included in the exhibition do not, in fact, show up at all well by comparison with the official product. I believe that local authorities have every possibility of producing designs well above the average of the private architect. If they do not, it is their own fault, because they are not organized in such a way as to attract the best architects or to get the best out of the very competent ones they have.

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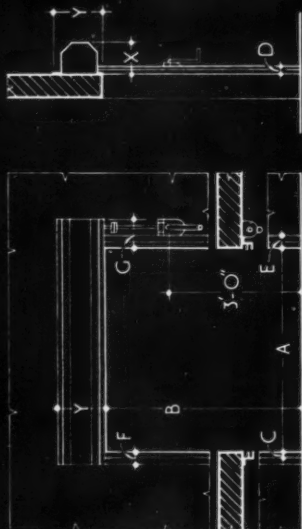
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DOORS | ROLLING SHUTTERS

The Architects' Journal Library of Information Sheets 171. Editor : Cotterell Butler, A.R.I.B.A.

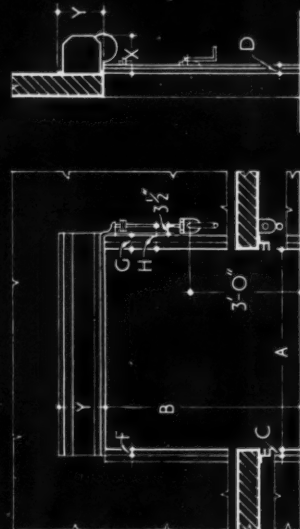
23.H5

Manufacturer: Haskins (E. Pollard and Co. Ltd.)



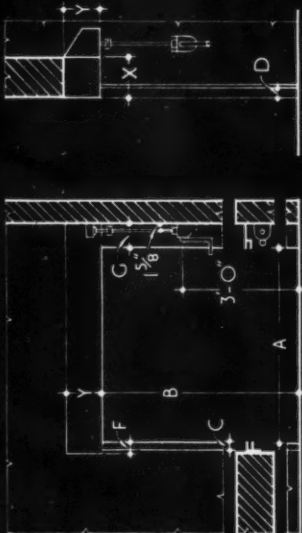
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10'-12'	11'	2"	2½"	3¾"	3"	7½"	16"	18"
12'-14'	14'	2½"	3"	4¼"	3½"	8"	16½"	19"

CRANK HANDLE OPERATION (SPUR AND BEVEL GEARED).

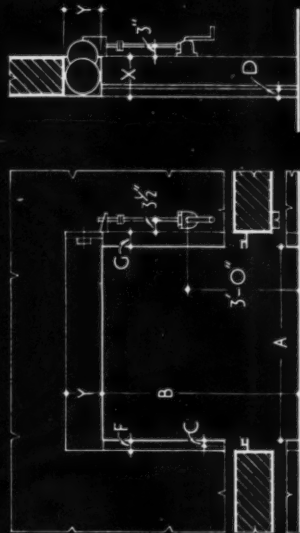


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17'-20'	17'	3½"	4"	4"	5¼"	7"	17½"	20½"	
20'-22'	20'	3½"	4½"	5"	6¼"	8"	19"	21½"	

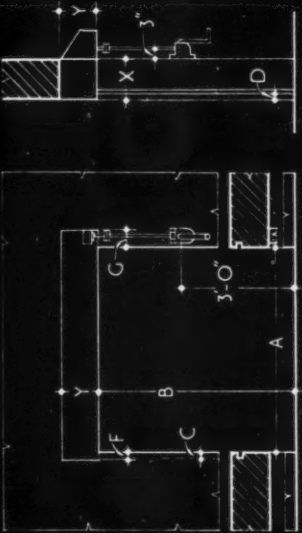
CRANK HANDLE OPERATION (REDUCTION GEARED).



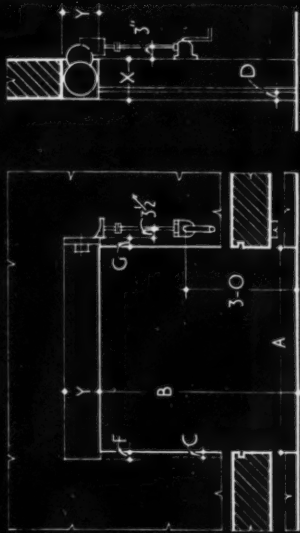
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10'-12'	11'	2"	2"	3"	5½"	5½"	15"	16"
12'-14'	14'	2½"	2"	3½"	6"	6"	16"	17"



A	B	C	D	E	F	G	X	Y
14'-17'	14'	2½"	2"	3½"	7"	7"	16"	18"
17'-20'	17'	3½"	2½"	4"	7½"	7½"	17½"	19½"
20'-22'	20'	4"	2½"	5"	8½"	8½"	19"	20½"



A	B	C	D	E	F	G	X	Y
8'-10'	8'	1½"	1½"	2½"	5"	5"	14"	15"
10'-12'	11'	2"	2"	3"	5½"	5½"	15"	16"
12'-14'	14'	2½"	2"	3½"	6"	6"	16"	17"



A	B	C	D	E	F	G	X	Y
14'-17'	14'	2½"	2"	3½"	7"	7"	16"	18"
17'-20'	17'	3½"	2½"	4"	7½"	7½"	17½"	19½"
20'-22'	20'	4"	2½"	5"	8½"	8½"	19"	20½"

HASKINS ROLLING SHUTTERS AND GRILLES S: BASIC DIMENSIONS.

23.H5 HASKINS ROLLING SHUTTERS AND GRILLES 5: BASIC DIMENSIONS

This Sheet, the fifth of a series, gives the basic dimensions and ordering data for Haskins crank handle operated rolling shutters and grilles. Sheet 23.H4 gives the basic dimensions for push-up, mechanical chain and electric push-button operated types of rolling shutters and grilles

Ordering Data

When ordering, the following information should be supplied :—

Width of openings between jambs.

Height of openings.

Set-back of reveals at sides of openings.

Distance from underside of lintel to underside of floor joists.

Total depth of lintel.

Total width of wall jamb, or jamb guards.

Depth of reveal.

Depth of stanchion (state size of web, flange, plates, etc.).

Width of stanchion.

Distance from inside face of stanchion to inner face of wall.

Width of jamb guards or channel iron stanchions.

Height of jamb guards.

Projection of jamb guards from face of wall.

Distance of window sill beyond sides of opening.

Projection of window sill from wall.

This Series of Sheets covers Rolador and curved slat type of interlocking steel rolling shutters, Portcullis rolling grilles and timber rolling shutters.

Compiled from information supplied by :

Haskins (E. Pollard and Co. Ltd.).

Address : Gnome House, Blackhorse Lane, Walthamstow, London, E.17.

Telephone : Larkwood 2622 (6 lines).

Telegrams : Sniksah, Walt., London.

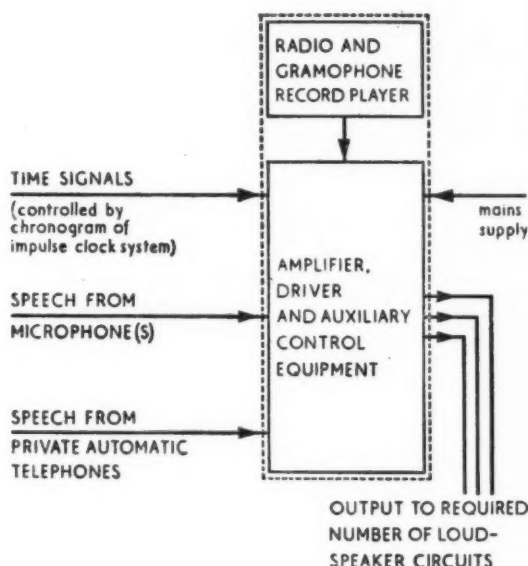
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Editor: Cotterell Butler, A.R.I.B.A.

SOUND DISTRIBUTION SYSTEMS

This Sheet is the fourth of a group describing types of telecommunication systems. It deals with sound distribution systems. The choice and design of sound distribution systems presents a special problem as the equipment will vary very widely in different circumstances. The use to which the system is to be put (speech and/or music by radio or gramophone records) determines the standard of fidelity, which will be higher for a school or theatre than for offices or factories. The best possible acoustic results cannot always be entirely reconciled with considerations of appearance and general amenity of the building and some compromise will often have to be made. These points, and in particular the type and location of loudspeakers, must form the subject of consultation with an acoustic specialist at the earliest possible stage in the design of the building, if the desired results are to be obtained without the possibility at a later stage of defacing the building or accepting inferior acoustic results in order to avoid doing so. When these preliminary precautions have been taken further tests should be carried out on site during the later stages of completion.



Space necessary for equipment depends on power output required and facilities to be provided. A typical installation and auxiliary control equipment (150 watt), feeding loudspeakers and distributing speech from microphones, speech from private and automatic telephone systems, radio, gramophone records, time signals from an impulse clock system, requires a minimum wall space of 5 ft. high by 4 ft. 1 in. wide with a projection of 1 ft. 4½ in. with front access.

Equipment and Service

The principal items of equipment in any sound distribution system are those comprising:—(1) an input system using microphone, gramophone and/or radio, signal generator, an amplifier with an output capacity

(watts) equal to the ultimate requirements of the system and (2) a system of loudspeakers of type and quantity sufficient to cover, with the desired volume and quality of sound reproduction, the whole (or special sections) of the premises. The above essential equipment is invariably required together with auxiliary equipment depending upon the possible service for which any particular sound distribution system is required. This may be one or a combination of the following:

- (a) distribution of microphone speech for staff location and public address purposes.
- (b) distribution of radio broadcast programmes.
- (c) distribution of gramophone record programmes.
- (d) distribution of staff location calls from the instruments of a private automatic telephone exchange.
- (e) distribution of time signals through the medium of a signal generator operated by a chronogram or circuit controller forming part of an impulse controlled time system.

Input System

Microphones are of various types adapted for use on desks or mounted on suitable floor stands and it is preferable that they should be located in permanent positions. Microphone speech takes priority over other sound distribution services; the switching on of a microphone automatically interrupts any other sound distribution then operating with the exception of time signals which have equal priority.

A further input source for speech may be made available where a suitable private automatic exchange telephone system is also to be installed. By means of the necessary auxiliary equipment any or all of the telephone instruments may be used in the same way as the microphones for the purpose of staff location as described fully on Sheet 37 H.3 of this series.

Radio and/or gramophone record programmes: A radio receiver and/or gramophone record player incorporating an automatic record changing mechanism may be provided.

Signal Generator

Where an impulse clock system is also to be installed, a device known as a chronogram (circuit controller or programme controller) may be provided as a feature of such a system. This device is stepped by impulses from the master clock to close contacts which, through the medium of the signal generator associated with the sound distribution system, cause audible signals to be broadcast by all or selected groups of loudspeakers in accordance with a pre-determined programme, usually having a weekly cycle. It may also be used for automatically switching the amplifier "on" or "off" at pre-determined times.

Amplifiers

The following range of amplifiers are provided as standard:

15 watt, 25 watt, 50 watt, 150 watt and larger. These are general purpose amplifiers capable of deal-

37.H4 SOUND DISTRIBUTION SYSTEMS

ing with inputs from any or all of the possible sources. The cost and physical dimensions of amplifying equipment do not increase in proportion to the watts output. Therefore it is more economical to install 150 watts whenever more than 50 watts output is likely to be eventually required.

The 150-watt amplifier is composed of two main items, 150 watt output unit and a voltage amplifier or "driver" capable of feeding three such output units. These two units can be combined in the proportions indicated so as to constitute amplifying equipment up to 450 watts output.

All components have a standard width of 1 ft. 7 in. and are wall-rack mounted. The racks have a standard width of 1 ft. 9½ in., the height being 5, 6 or 7 ft. according to the amount of equipment to be accommodated. Where necessary, more than one wall-rack is used. Dimensions of a typical assembly are given on the face of this Sheet. The various units are secured to the wall-rack, which is of substantial angle iron construction, by means of hook bolts.

Amplifiers of more than 450 watts nominal output are available and the mounting of these in association with input units is determined by individual requirements. No special provision need be made for the mounting of the amplifier and its associated input unit equipment; the situation should be well ventilated with ample clearance space in front so as to provide access for maintenance purposes.

Loudspeakers

Loudspeakers of various types can be supplied in suitable power ratings. The success of the installation depends more upon the number, selection and location of the loudspeakers than upon any other factor. For this purpose definite ideas must be formed at a very early stage, in consultation with the

contractor's acoustic engineers as to the standard of reproduction expected. Their recommendations should be given the most serious consideration, not only as regards the number, type and accommodation of the loudspeakers themselves but also in the matter of the internal structures and design of the building itself.

The loudspeakers may be arranged in one or more circuits to suit the requirements in relation to the nature of the input service(s) to be distributed in various parts of the premises. An output preselector panel on which are fitted as many key switches as may be required, enables pre-set conditions to be established for each circuit of loudspeakers so that the distribution of the input service(s) is automatically determined, permanently or for such period as may be required.

B.S. Codes of Practice

The installation, equipment and services dealt with in this group of Sheets comply with the recommendations of British Standard Codes of Practice (Telecommunications) where relevant.

Compiled from information supplied by :

Telephone Rentals, Ltd.

Address : Kent House, Rutland Gardens, London, S.W.7.

Telephone and

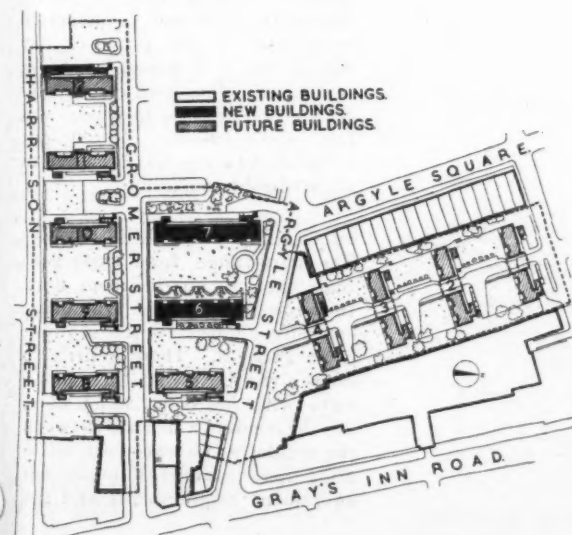
Telegrams : Kensington 9201-5.



East elevation of block 12, from Cromer Street.

FLATS AT ST. PANCRAS

DESIGNED BY ROBERT HENING AND ANTHONY CHITTY



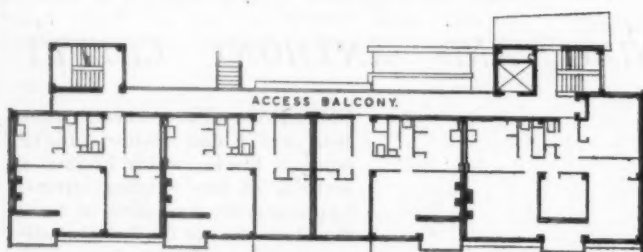
[SITE PLAN

GENERAL.—The scheme consists of 274 flats divided into 12 separate blocks, which fit into a network of five existing streets. Approximately five acres in area, the site is close to the London railway terminus, King's Cross, and is of very high value. The flats, designed for the St. Pancras Borough Council were built mainly for railway workers, and were designed in 1946; at that time the balcony access type was the most economical. On the site plan, blocks 10, 11 and 12 are complete. Blocks 1-4 and 6-9 are under construction. Block 5 remains to be built.

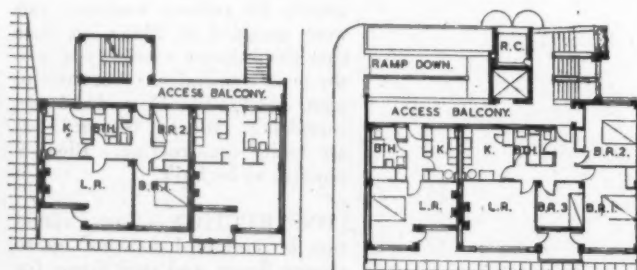
CONSTRUCTION.—The structure is reinforced concrete up to ground floors, and steel frame for six storeys above. The basement, comprising laundries, stores and other service accommodation is also reinforced concrete, as are all floors in all buildings. External



East front of block 11, seen from Cromer Street.



TYPICAL FLOOR PLAN BLOCKS 2, 3 and 4



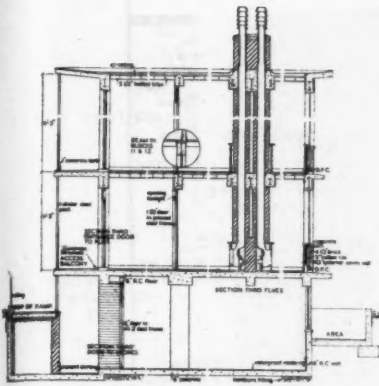
GROUND FLOOR PLAN BLOCKS 2, 3 and 4

[Scale: 1/8"=1'0"]

walls are partly of cavity brick construction, and partly of concrete, and are faced with the same special pre-cast slab used in the Dombey Street flat blocks. The precast slabs have a surface composed of broken brick, the waste facings from the wall construction being used for the purpose. By this means it is hoped to obtain texture, freedom from cracks and crazing as well as intrinsic and fast colour values. The weight of the steel railings has been cut to an irreducible minimum.

PLANNING AND SERVICES.—

The flats range from three-bedroom flats to one-bedroom flats, the proportion of each type being carefully aligned to the requirement of St. Pancras. There is little to note in the flat plans which, as always with low-cost London flats, are the result of a balance between the regulating factors—cost, minimum space standards, maximum equipment requirements and the



TYPICAL SECTION THROUGH BASEMENT AND TWO FLATS

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

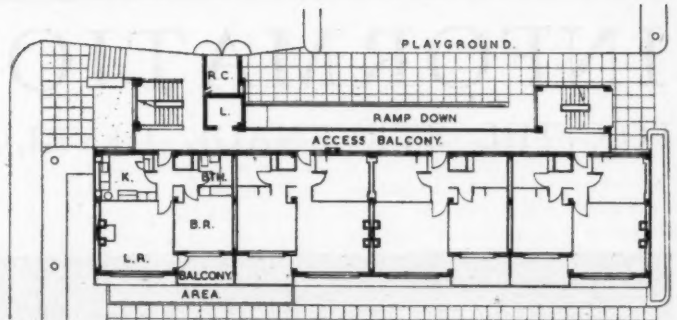


*Blocks 10, 11, 12.
from Harrison Street.*

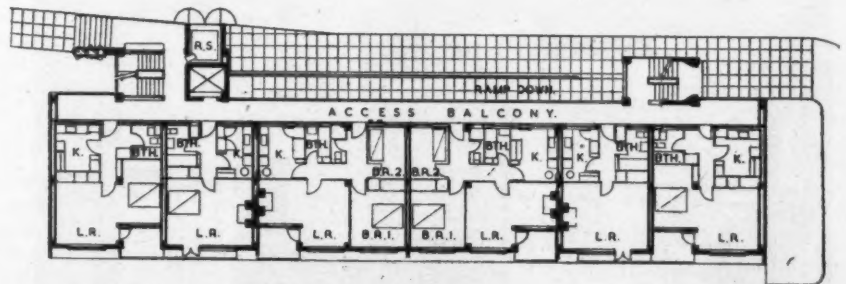
rigid requirements of sanitary, housing and fire escape authorities. Each block has a basement laundry, with double sink, electric washing machine and drying cabinet, enabling linen to be washed and dried in three hours. Every flat has an open gas-ignited coke fire grate in the living room, and a back boiler to this supplies hot water, which is supplemented by a thermostatically controlled electric storage tank. Coal storage space for eight hundredweight is available in each flat. Radio rediffusion is provided. Each block of flats has an automatic lift.

INTERNAL FINISHES.—Living room and bedroom floors are wood block; kitchen floors are brown quarry tile; bathroom and entrance hall floors are coloured asphalt.

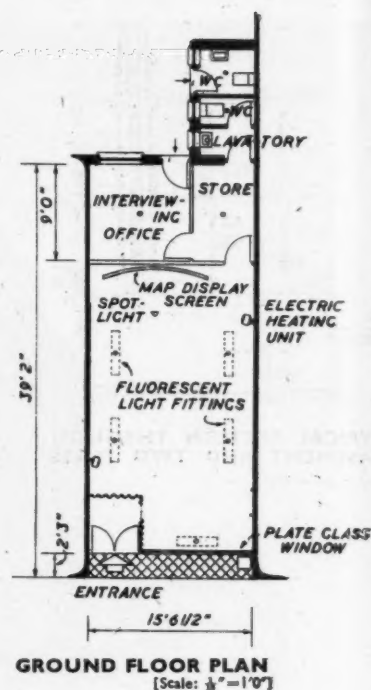
The main contractors were Messrs. Stewart & Partners, Ltd. For list of sub-contractors see page 466.



GROUND FLOOR PLAN BLOCKS 11 and 12



GROUND FLOOR PLAN BLOCK 6 [Scale: $\frac{1}{4}$ "=1'0"]



Left, main elevation; below, interior of the shop showing the display screens.

INFORMATION CENTRE

FOR THE STEVENAGE DEVELOPMENT CORPORATION

BY HUGH CASSON



GENERAL.—A lock-up shop was converted into a small information and exhibition centre for the Stevenage Development Corporation.

CONSTRUCTION.—Shop Front: The existing R.S.J. is left exposed and painted dark green. The plate-glass windows are in wood frames painted a putty colour and white. The double doors are painted lemon yellow with mahogany push bars. The pavement of the recess is laid with blue-black diagonally patterned paving bricks. Floor: brown linoleum. Partitions—4 in. breeze plastered. Exhibition screens designed by Stirling Craig. The general contractors was W. Austin and Sons. For list of sub-contractor see page 466.



Main entrance to the laboratory building.

LABORATORY AT STROUD

DESIGNED BY GORDON PAYNE AND PREECE

GENERAL.—The rapid growth in the volume of plastics produced and the increase in the variety of products handled, made the provision of greater laboratory accommodation necessary in order to provide adequate routine control and to pursue essential research and development programmes. Erinoid Ltd. wished to house in one building all technical staff to deal with matters relative to the company's products, and to carry out the research work for the development of new products or processes.

LAYOUT.—The factory site is extremely congested and, consequently, it was necessary to build a four-storey building to accommodate the floor area required (approximately 17,000 sq. ft.). The level of the site is approximately 25 ft. below the adjoining road. The main entrance is designed to

be from this road and a bridge access has been provided from it to the second floor which is thus described as the ground floor; the floors below being respectively known as mezzanine and basement.

PLANNING.—The two large laboratories, Routine and Research, are housed on the top floor so that they will receive the maximum amount of light. Two smaller laboratories, Physical Testing and Special Research are on the lower storeys. The building also provides a large Conference Room, Reference Library, Samples Room, Glass and Chemical Store, in addition to Fume Rooms, Balance Room, Dark Room and Lavatories, etc. The basement contains a special laboratory devoted to colour matching and there is a large section with considerable headroom to house new semi-technical plant.

CONSTRUCTION.—The building is steel framed with hollow tile concrete floors and external cavity walls of sand-faced hand-made bricks. The flat roof is of asphalt tanked to hold 4 in. of water for insulation purposes; all rainwater pipes are internal. The windows are metal casements, except for the very large windows, which are fixed lights. Partitions are of hollow tile where plastered and metal glazed screens elsewhere. The elevational treatment endeavours to express the plan. The 21-in. hand-made bricks are golden brown in colour with a raked out horizontal mortar joint of light buff colour; the vertical joints are flush pointed in a mortar similar in colour to the bricks. There is a panel of specially detailed brickwork. The projecting hoods, canopied and cills, etc., are of reinforced concrete with a stone dust finish of a light buff colour. The metal windows are painted



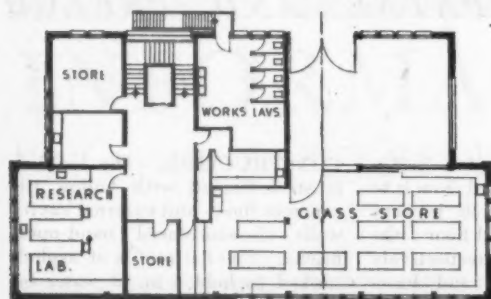
Rear view showing, right, staircase window and entrance to technical laboratory in the basement.

cream, the main entrance doors are bronze.

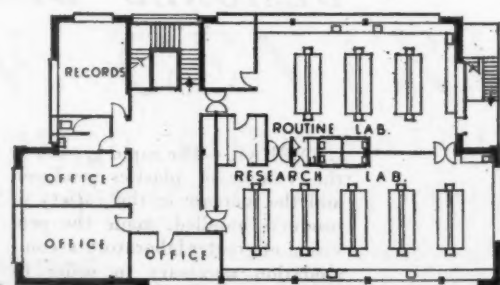
Most of the building is plastered internally. The Reference Library and Conference Room, Telephone Room, etc., have acoustic tile ceilings. There is a wide range of

floor finishes, including hardwood blocks in the Conference Room and Offices, etc., speckled heather brown tiles to the corridors, halls and staircase; patent jointless composition flooring for the principal laboratories.

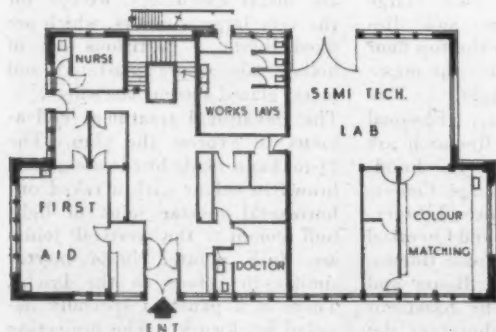
The Conference Room has half panelled walls and a very large window, leading to a balcony which gives a view of the whole factory. Features of the room are the sound-proofing, lighting and air conditioning, and a specially de-



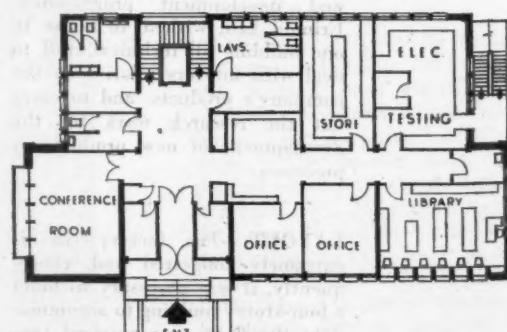
MEZZANINE PLAN



FIRST FLOOR PLAN

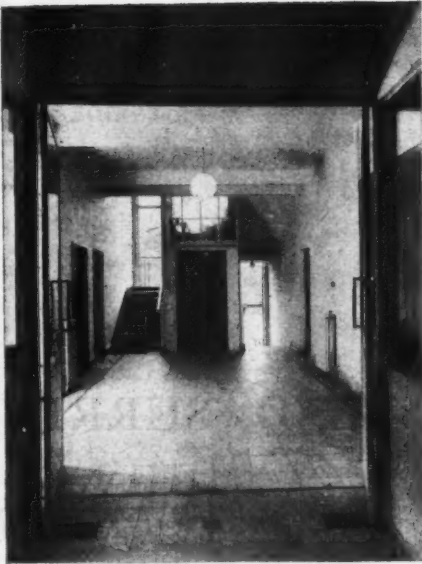


BASEMENT PLAN [Scale: $\frac{1}{4}$ "=1'0"]

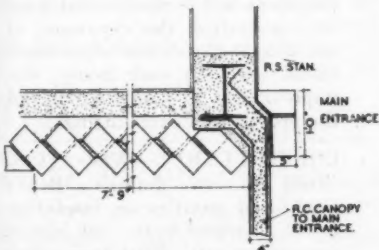


GROUND FLOOR PLAN

LABORATORY AT STROUD



Above : left, the entrance hall and staircase ; right, the first-aid room.



**DETAIL PLAN OF BRICKWORK
ON THE FRONT ELEVATION**

Below : left, the library showing reading desks ; right, the conference room.

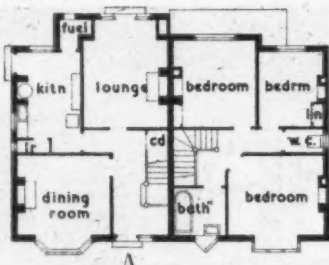


signed table of adjustable size. The Library has separate reading recesses in each of its six windows.

SERVICES.—The building is provided with an electric goods and passenger lift and with high and low pressure steam, hot water heating, hot, cold and soft water services, vacuum, compressed air, gas, electricity—A.C. and D.C. Mechanical ventilation and fume extraction is provided in the Laboratories and Conference Room. These services are brought into the building from the main works boiler house and sub-station, etc., in an underground duct and are distributed on each floor level

from the vertical duct which rises in the centre of the building. Metal grid floors are provided in this duct and access can be obtained through doorways off the staircase halls at each floor level. The electrical switch room, the vacuum and compressor room and the calorifier room are grouped round this vertical duct in the basement of the building and the tank room is situated on top of the duct adjoining the Lift Machinery Room on the flat roof.

The general contractors were Messrs. G. Percy Trentham Ltd. For list of sub-contractors see page 466.



Plans and elevation of the houses as existing before destruction during the war; below, view of the houses as rebuilt.

HOUSES AT SANDERSTEAD, SURREY

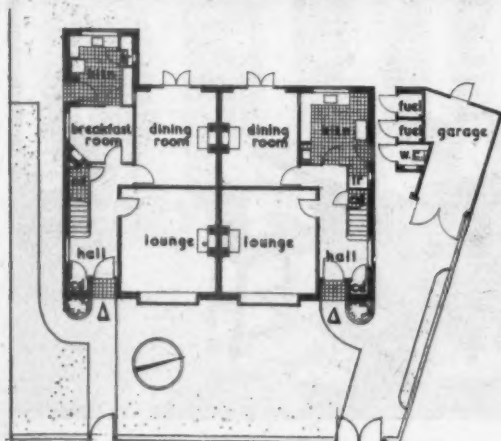
DESIGNED BY HUGH MACINTOSH & PARTNERS



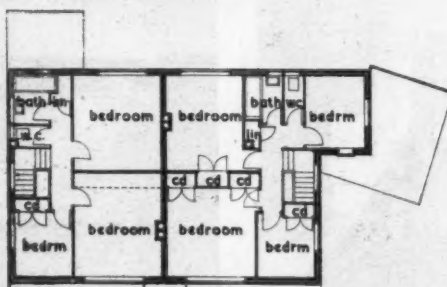
GENERAL.—Rebuilding a pair of houses totally destroyed in the war without exceeding in cost the war damage claim. The economies resulting from the reduction of the original storey heights to 8 ft., by the omission of the original small basement and bedroom coal fires, etc., permitted the expansion of the plan to the extent of an additional room to each house, the improvement of construction and the provision of extra fittings.

CONSTRUCTION.—Walls: 11 in. cavity in rustic flettons. Roof: sand-faced pantiles on insulating board. Ground floor: oak blocks on concrete raft. First floor: deal boards. Windows: standard metal in wood frames.

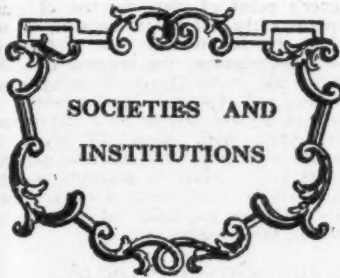
INTERNAL FINISH.—General wall finish: distemper. Staircase balustrade in plywood. Bathroom and kitchen walls tiled, the kitchen floors have quarry tiles. The general contractors were Grace & Marsh Ltd. For sub-contractors see page 466.



GROUND FLOOR PLAN [Scale: 1/4" = 1' 0"]



FIRST FLOOR PLAN



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

TPI

E. B. Hughes-Jones

May 5. At the Institution of Civil Engineers, Great George Street, S.W.1. Extracts from first Rees Jeffreys Triennial Lecture, SAFETY AS A FACTOR IN ROAD DESIGN, CONSTRUCTION AND LAYOUT.

E. B. Hughes-Jones : The first step in considering the replanning of a highway system of a town is to examine thoroughly the existing pattern of the whole area to find out its defects. It will be admitted that many roads and streets have come into being on alignments and to widths which are not in keeping with modern needs, but generally the routes carrying the major volumes of traffic are used because they are conveniently sited for the traffic using them. The replanning of the highway system in any town is not the design of a completely new highway system, the construction of new streets, or even the widening of existing streets. Reorganization and co-ordination of transport movement is an essential part of the plan. On an existing congested route the diversion of controllable traffic on to a nearby route, with or without improvement of the latter route, may well mean that the former may not require to be improved at all.

There should be full traffic and economic justification for each road incorporated in the plan. The ultimate highway pattern must be capable of evolution by stages, each stage making a progressive contribution to the plan by reducing traffic congestion and other problems in the town. A plan which does not incorporate these features and necessitates the construction of the major part of the replanned road pattern before it can function, is no plan at all. It

is therefore necessary to prepare maps showing, stage by stage, the evolution of the plan in steps of, say, 10 years, to ultimate completion.

In considering the alignment of roads around the inner core of a town, regard should be paid to what are essentially central area uses. Shops and offices, civil buildings and some places of public assembly are, of course, properly found at the centre of the urban area, and some light industry and certain warehousing can also be included, but a group of residential streets is not normally suitable for enclosure within an inner ring road. Information and agreement will therefore be required on the extent of existing and proposed use of land before the lines of ring roads around the inner core of the town can be laid down. Maps on these lines are normally produced by the planning authority when preparing a scheme. Market and shopping areas should be designed as precincts into which through traffic does not pass. Schools and residential districts should be grouped as far as possible to one side of traffic routes so as to avoid the need for children and others to cross over them.

Even if an inner ring road is to be provided, a very considerable volume of traffic will want to enter the central area, and, therefore, accesses to the centre must be easy and reasonably frequent. The central area itself must provide facilities for the convenient movement of traffic, but, at the same time, it should be more convenient and quicker for through traffic to use the ring road than to traverse the centre. This can best be achieved by careful alignment and design and by the provision of adequate and attractive facilities on the ring, rather than by the introduction of baffles on existing routes.

ALL-PURPOSE AND MOTOR ROADS

The all-purpose by-pass road is primarily to relieve the town of those vehicles which have no occasion to stop there, and thus produces safer and pleasanter conditions for local town traffic and shoppers; therefore it will usually be sited on the outskirts of the town, where pedestrians and cyclists are fewer and the land to be acquired less expensive. The new all-purpose road is designed for a speed of about 60 miles per hour.

The motor road, on the other hand, is essentially for long-distance traffic between large centres of population; it must serve the towns to which it leads and through which it passes. It is designed for a speed of 75 or 80 miles per hour. There must be sufficient accesses to permit motor traffic conveniently to get on to the new road from the trunk or other first class roads. This fast traffic must be segregated from the local traffic; accordingly, a motor road will invariably pass over or under all the existing roads, as a railway does, and with a similar degree of segregation, but with more frequent points of access through large towns. In the open country accesses will be 5 to 10 miles apart. Although building 800 miles of motor roads amounts only to increasing the length of classified roads by less than 1 per cent., it would make a noticeable contribution to the safety of the towns and districts through which they pass, for they will take much of the through traffic off the town streets and away from the villages on to routes where there are no pedestrians or cyclists.

In a rural area, if the number of vehicles using the road during thirty hours in the course of a year is up to 300, a single 22-ft. carriageway is sufficient; for 300 to 600 vehicles an hour, according to the speed which is reasonable for the road, a 30-ft. carriageway is necessary; and over about 600 twin carriageways are needed; twin 30-ft. carriageways if the traffic is over 1,500 an hour. In urban areas the capacities are 20 to 30 per cent. higher. For roads leading to some seaside resorts the capacities of the different road widths would be re-

duced by a third to make better provision for the excessive period at the week-end. On the international routes which are being discussed by UNO, and of which there will be four or five in this country, the capacity of a 22-ft. carriageway at 60 kilometres, or 37½ miles per hour, is taken as 400 vehicles per hour, but our standards of construction are higher than those which can be applied in all countries, and we must cater for a speed of 50 miles per hour, which reduces the capacity of the 22-ft. road to the 300 vehicles first mentioned. On wider or twin carriageway roads higher speeds are allowed for in the design.

Twin carriageways are obviously safer than a single carriageway, but the cost is very heavy. If improvement is to wait for the provision of twin carriageways, any improvement will be long delayed and the length of road treated will be far less than that on which, for the same money, a widening to 30 ft. can be effected and an improved alignment obtained at the same time.

Those standards assume that the vertical and horizontal alignment of the road are up to a good standard; for example, that a driver can see ahead a distance appropriate for the speed value of the road. If the road is a single carriageway, and one on which it would be reasonable to proceed at 50 or 60 miles per hour, that distance would be about 250 yards, but if 30 miles per hour is the maximum speed, a forward sight line of only 80 yards is necessary. On curves one should be able to see oncoming traffic at those distances.

Super-elevating or banking up the outside of bends and eliminating excessive camber on straight lengths of road have the effect of widening the carriageway, for drivers can use the whole width with an increased feeling of comfort and safety, and are not tempted to go over the white line on to the wrong side of the road. Even in built-up areas banking should be provided where the level of entrances to buildings permits, but the amount of banking will be less than on the open road.

DESIGN OF ROAD JUNCTIONS

The proportion of accidents which occur at road junctions is a clear indication that special attention should be paid to their design. The provision of a good sight line is the first consideration, but by itself is often not sufficient. Some form of control is required which either keeps vehicles in a definite path or to a definite time cycle. At very few road junctions in the open country is the view across corners sufficient without special work, which involves the acquisition of land so that from a point in the side road 50 yards from the carriageway of the main road a driver can see main-road traffic 110 yards away. When the speed value of the road is 30 miles per hour, one-third of those distances suffices, and in the central area of a town, where cars rarely go faster than 15 or 20 miles per hour, lower standards are reasonable. In a built-up area the radius of the kerb at a street junction should usually be 35 feet, so that lorries and buses can get round without encroaching on the opposing traffic stream.

Every point at which vehicles or pedestrians can get on to the carriageway is an addition to the dangers of the road layout. We should therefore aim at reducing the number of road junctions and the number of places where private premises have access to an important route. This is best done by ensuring that buildings have access to side roads only, but ingenuity is necessary to plan the layout so that the main route is not flanked by unsightly back premises. As a last resource, if the limitations of the site prevent anything better, a service road should be provided along the main road and then an unclimbable fence should be put between the service road and the main carriageway.

RSA

Elias Svedberg

May 11. At the Royal Society of Arts, 6-8, John Adam Street, Adelphi, W.C.2. Extracts from a lecture on MUSEUM DISPLAY. The chairman was Gordon Russell.

E. Svedberg: The two main problems in designing a permanent display are the architecture of the rooms and the display of the object. These two problems are naturally closely interwoven; but it is essential to start with a general layout of the separate rooms or galleries and giving each of these a good architectural balance. The designer nearly always has to work with an existing building, whether it is an old museum or a newly erected one. There are several possibilities when remodelling an old museum department. It is necessary either to build a completely new room inside the old one, or, for architectural or sentimental reasons, to keep the character of the existing house, but at the same time designing a modern setting for the collection. Very often, when approaching a job in an old building, it may seem practically impossible to solve these problems. Everybody connected with the job may long to put a bomb in the old museum and build a new one; but when such a job is finished, and all the headaches are over, one very often finds that the tradition of the old house gives a character to the exhibition which might not have been achieved in a new house. I have also found that the difficulty in solving such architectural problems sometimes creates more interesting methods of display than would have been the case in a clean and modern surrounding.

It is though, generally speaking, easier for the designer to work in a modern building, but it nearly always happens that he runs into similar problems as in the old building, because partition walls, columns and windows are always sitting in the wrong places. This may be overcome, but what is worst of all from the designer's point of view is so-called monumental architecture, especially if this architecture is also bad.

VARIATION AND CONTRAST

When doing the layout, the designer is confronted with the task of rearranging complete rooms or galleries to get a more broken-up effect. In a big museum it is less tiresome for the visitor to go from one room to the other without seeing too much at a time; moreover, an exhibition which is divided into small sections gives more opportunities for dramatizing. The risk is, though, that this method gives too much of the character of a temporary exhibition. In a sequence of several rooms it is important to create a certain variation and contrast between them. This contrast should not be such that it gives the visitor shock after shock, but rather keeps him awake and acts as a stimulation. There are various ways of arriving at such contrasts: by going from small rooms into larger galleries, from space to intimacy, from daylight to artificial light, or even by using warmer light in one room and colder light in another.

The traffic problem must also be taken into consideration, but I am convinced that it is better not to put too much emphasis on this question, as the public generally like to wander about and hate being pushed around like a herd of sheep or being directed by too many signs. This problem is a more psychological one and is dependent on the display of the objects.

The museum designer may be more apt to think about the general public and the

museum curator about his colleagues, the scientists. It is therefore ideal, if it is possible, to plan the museum in such a way that, parallel to the general collection for the public, space is available for research, open only for the specialists and big enough also to hold duplicates of the collections. In this way all the collections are easily accessible at practically the same place and the museum man will be more willing to sort out the collections in the public showcases.

After these reflections about the architectural problems I come to the display of the object. The designer must first try to find out to what extent the display should be permanent. I consider this question very important because I have found that a designer working with many temporary exhibitions may be tempted to apply this same technique to museum display. On the other hand, it is only natural that both the designer and the modern-minded museum man reacts against the conventional museum display which seemed to be made to last for ever.

When I discussed the architectural problem I mentioned that the permanent or temporary character is very much decided by the layout of the rooms. I don't think it is absolutely necessary to choose expensive materials and backgrounds in order to achieve a more permanent character. It is more a question of designing a harmonious and complete room which serves as a quiet but correct background for the collection. It is, of course, important that the technical arrangements for display are such that they allow for continual changes. These changes may be caused by new and very valuable additions to the collections. They may also be due to new ideas or new experts joining the museum.

FLEXIBILITY OF DISPLAYS

These problems must be solved differently in every case, but it is important that the designer bears in mind that one generation of museum experts generally has a quite different opinion from the one before and that the displays should preferably be executed in such a way that it gives these new experts a chance to try out their ideas without spoiling the architecture of the room. This is a very difficult problem, but I will show an example of one such attempt. One way, as mentioned before, to give a permanent character is to use more expensive materials such as wooden panels, etc. Another is to build many of the showcases into the walls and avoid loose stands scattered in the middle of the floor. On the other hand, one gets a rather dull room if the collections are concentrated along the walls. A combination of this system and showcases standing freely in the room is generally the best solution. A decorative effect can be achieved with these showcases if the collection consists of certain big objects which can be placed freely about the room. It should be mentioned in this connection that the reason for building showcases into the walls is also a technical one: it is much easier to achieve good lighting effects this way than with the detached showcases.

The permanent display must also include satisfactory arrangements for safety. This means that, generally speaking, the objects must be exhibited behind glass. It would be much more pleasant if the visitor could see the object without the irritating and reflecting glass screen in front of his nose; but safety arrangements become too complicated, with electrical alarm systems behind every object, if they are left uncovered. It is also a problem to keep the collections clean if they are openly exposed, although the trouble of dusting should be overcome by having a modern, efficient air-conditioning system and filters between the rooms, similar to that used in modern operating theatres. From the

designer's point of view the use of glass complicates the exhibition because of reflection. He has to bear this problem in mind when planning the position of show windows and in the choice of background, materials and lighting arrangements. I have seen a glass covered by a transparent non-reflecting film, made by RCA in America, which was very effective, but this film was very sensitive to scratches, and the glass could be made only in rather small sizes. Maybe in the future we will find an answer to this problem.

THE EDUCATIONAL PRINCIPLE

I mentioned earlier in this lecture that the designer wants to eliminate as much as he can of the collection, whereas the museum man wants to show all he possibly can. As mentioned before, it is tiresome to see too many objects, but, on the other hand, the exhibition may look poor if it is arranged too aesthetically, according to the designer's wishes. I think the visitor loves a rich museum just as he loves to look into a pawnbroker's window overloaded with all sorts of fancy objects. The display should instead, I think, be done in such a way that there is a definite emphasis on the most interesting specimens. But these precious pieces should not be sitting alone in a beautiful frame but surrounded by other interesting items. The real problem is not whether to show few or many objects but how to show them so that the visitor, without too much complicated thinking, understands their quality and their relation to time and history. It is the educational principle which must always be borne in mind when the display is planned.

An important part of the display is finding the right lighting arrangement for the various exhibits. I have earlier mentioned that the built-in showcases are easier to illuminate, as the same technique can be used here as in the ordinary shop window. The designer has nowadays several possibilities in his choice of light: warm light (ordinary bulbs or reflectors) or cold cathode light which creates a daylight effect. A combination of these two systems is quite valuable—which is also experience gained from shops and department stores. The bulb gives more effect to the object, brings out details of reliefs and gives shadows. This warm light is also more natural to especially medieval objects, meant to be used in candle-light. The modern cold cathode light is valuable in showcases, where one wants to avoid heat, but one has to remember that the ultra-violet rays are dangerous for certain textiles. This light is also very useful for indirect lighting and daylight effects. It is well to remember that only indirect lighting in a room gives a somewhat theatrical effect, and should be supplemented with other visible light arrangements. Finally, as I mentioned before, the light is an important factor in creating variation between rooms and in dramatizing the display.

I would like to end this lecture with a few words about the ideal planning of a new museum. A museum should consist of free, neutral space with big span, no partition walls, and no columns. The architect of the building should not try to plan the house according to the collection, as the arrangement of the latter must be the result of numerous discussions, experiments and even mistakes. Windows should be built so that they can be covered or uncovered, according to need. Heating systems should preferably be in the floor, not in the ceiling, as it is often necessary to lower the latter in certain places to get good proportions in small rooms. Air-conditioning, with dust filters, and plenty of easily accessible electricity supply points, preferably placed in the floor, are essential.

Last but not least, there should be no hurry in the organization of a permanent display. From my experience one needs two to three years to make a good museum department.



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The opportunity of providing fuller details will be appreciated.

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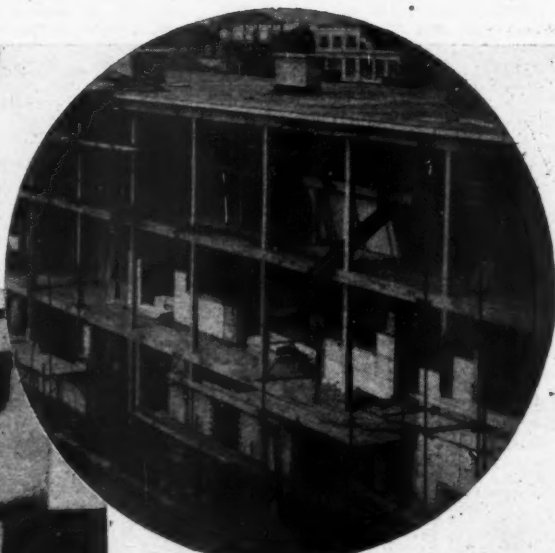
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A.M. Inst. M. & Cy.E., A.M.T.P.I.*



*Canteen at New Technical College, Brighton.
Architect: P. Billington, A.R.I.B.A., A.M.T.P.I.*



*Houses at Bromley, Kent.
Architect: Harold Cliffe, B.Sc. (Eng.) Lond.
M. Inst. C.E., M. Inst. M. & Cy. E.*



*Birmingham Health Centre executive offices.
Architect: D. A. Goldfinch, F.R.I.B.A., F.R.San.I.,
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TECHNICAL SECTION

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

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2.82 planning: general GUIDE TO 1947 ACT

Development Procedure under the 1947 Act: A Practical Guide. W. C. Graper, Area Planning Officer, Hants CC. (Crosby Lockwood & Son Ltd. 8s. 6d.)

A practical step-by-step guide through the maze of how to go to work without committing crimes, blunders or gaffes *en route*. 141 pp.

It was essential that the 1947 Act and its accompanying fringe of statutory instruments, circulars, directions and the like should be broken down into their component parts and reassembled more adequately to meet special needs. This guide is such a reconstruction, intended primarily for architects and surveyors. It takes them through each step in the long road from the idea and the instruction to the completed job and the filing of the last official certificate or receipt. It also contains a useful set of definitions from the Act. If it had not been written, most architects and surveyors would have been compelled at some stage to attempt to make out a similar office guide-book of their own.

12.30 materials: metal ALUMINIUM CORROSION

Aluminium Corrosion: Some Points to Consider. Col. W. C. Deveraux. (The National Builder. April, 1949. pp. 216-7.)

Short article reviewing present attitude to the corrosion of aluminium. Points made in the article are:—

1. Aluminium alloys compare favourably with most other non-ferrous metals.
2. From tests carried out at the ASTM on a total of 24 different alloys, aluminium-coated duralumin was second only in the overall grading to commercial nickel.

3. Aluminium shares with chromium the ability to produce a highly protective and insulating oxide film which prevents subsequent attack.
4. The relative importance of corrosion is far greater in thin sheets, such as are used in aircraft construction, than in thicker material used in building.
5. Results of tests are misleading, since there has been a tendency to standardization of salt spray accelerated corrosion testing, and it is known that the resistance of aluminium to chloride ion is relatively less than it is to atmospheres polluted by other contaminants.
6. The rate of corrosion decreases progressively with time. In this respect aluminium differs from most other commercial metals.
7. In structural work there will be a saving in cost of upkeep as between aluminium and steel, and in roof trusses of large span savings due to lightness in weight will also be significant.

The author considers that a too gloomy picture has been painted of the problem of corrosion of aluminium, and suggests that one of the most important factors, often overlooked, is that the rate of corrosion decreases with time.

12.31 materials: metals ALUMINIUM

Wrought Aluminium and Aluminium Alloys. Sheet and Strip. BS 1470: 1948. (British Standards Institution. 3s. 6d.)

First of a comprehensive series of BS for aluminium and aluminium alloys for general engineering purposes. Deals with sheet and strip in a number of alloys. Similar schedules are in preparation for tubes, forgings, wire for rivets, welding wire, wire for general purposes.

A feature of the standard which is of particular interest is the system of nomenclature which will be used throughout the series. The method of using the nomenclature is clearly described, and examples are included for a number of materials and conditions in the form of both sheet and strip.

The standard is arranged in two parts. The first part contains the clauses relating to chemical composition, conditions in which the material is available and mechanical properties, for the three grades of aluminium and the eight alloys which have been standardized. The second part contains the general clauses of six tables. Recommended sizes of aluminium and aluminium alloy sheet and strip are included as an appendix, and although these do not form a mandatory part of the British Standard, they should be of considerable use in practice.

14.24 materials: concrete CONCRETE CONTROL

Control of Variations in Quality of Concrete and Its Effect on Mix Proportions. F. N. Sparkes. (The National Builder. March, 1949. pp. 188-9.)

Examination of the factors contributing to variation in concrete strength; recommenda-

tions for procedure to ensure adequate control.

The factors discussed are: (1) Quality of cement; (2) grading of aggregate; (3) bulk-ing of fine aggregate; (4) batching (a) by weight, (b) by volume; (5) compaction; (6) handling; (7) temperature.

A table is given showing the total variation in concrete strength as a result of variation in each of these factors.

15.52 materials: applied finishes and treatments TIMBER PRESERVATION

Timber Preservation. E. H. Nevard. (RIBA Journal. Feb., 1949. pp. 170-1.)

A very useful summary of present methods of preservation. A useful practical article.

There are many proprietary brands of preservative; there are amongst them several specific types whose characteristics differ and for which there are appropriate methods of application. It is important to know what type of preservative one is using and also to ensure that it is properly applied. This article describes clearly the properties of the different types of preservative and gives information as to the limitations or suitability of various methods of application.

15.53 materials: applied finishes and treatments GYPSUM PLASTERS

Gypsum and Anhydrite Plasters. H. Andrews. (National Building Studies Bulletin No. 6. HMSO, 1948. 6d.)

Considers various calcium sulphate plasters commonly used, and deals with treatment of raw materials, properties of plasters during application and when set, and the mixes normally employed. pp. 16. Most useful.

Plastering is one of those trades in which technical developments and changes in materials have taken place to such an extent that reliance cannot be placed on traditional knowledge either for choice of suitable plasters or for appropriate methods of application. Plasterers are not always familiar with the variety of plasters available, and often need guidance. It is essential, therefore, that architects should master the problem so that they shall be able to specify plasters correctly and be able to ensure that the necessary precautions are taken in their application.

This Bulletin gives all the necessary information about gypsum and anhydrite plasters, and includes a list, in tabulated form, of the proprietary names of plasters, with notes on their properties and recommendations as to their use.

At sixpence it is very good value indeed, and contains the sort of information which architects are constantly in need of.

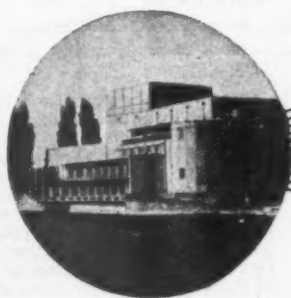
16.48 materials: miscellaneous GLUES

Glues and Their Uses. R. A. G. Knight. (Constructional Research Bulletin No. 2 TDA.)

Use of glues: description of glues; selection of correct type: British Standards: extended glues for plywood manufacture: methods of using glues; bibliography. pp. 8. Illustrated.

A short summary which, for architects especially, should be a very useful reference. The descriptions are non-technical, but give sufficient information to enable one to obtain an overall picture of the various glues available and of their particular properties and limitations.

Catering in Shakespeare's Theatre



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16.49 materials: miscellaneous
TUNG OIL

Tung Oil. BS 391: 1949. (British Standards Institution.) Revision of BS 391: 1936. 3s.

Present specification deals with oil derived from both *Aleurites fordii* and *Aleurites montana*.

Quality of materials specified, together with methods of sampling and testing.

16.50 materials: miscellaneous
WOOD ADHESIVES

Wood Adhesives. E. H. Pinto. (Spon, 1948. 12s. 6d.)

Textbook covering whole field of modern adhesives. Deals with the use of adhesives from technical, commercial and economic points of view. Discusses all varieties of glued joint; also different classes of impregnated veneer wood and apparatus required for preparation and application of adhesives. Illustrated. 180 pp., including index and useful summary chart.

This book is intended primarily for the timber trade, and for the present it is likely to be the standard reference book on the subject in the trade. It is probably unnecessary for the architect to have such detailed information about adhesives as is given in the book, but for special purposes he may wish to have reference to an authoritative description of the behaviour of different kinds of glue, and this work provides that reference in a concise and orderly way. The language is not so technical as to be difficult

to understand, and for those who have no time even to read the text there is a convenient chart summarizing the properties and behaviour of the different categories of adhesives.

20.129 construction: complete structures
GARAGE LEWISHAM

New Garage, Lewisham. John Carr. (The Builder, April 15, 1949, pp. 457-9.)

Covered area, 41,500 sq. ft. Two bays of 59 ft. 6 in. span and two small bays. Structure: "Lambda" reinforced concrete frames at 15 ft. centres, pre-cast on the floor of the building and erected with a 3-ton mobile crane. L-shaped precast purlins carrying asbestos cement sheeting.

23.97 heating and ventilation
DISTRICT HEATING: DOMESTIC

District Heating in American Housing. National Building Studies Special Report No. 7. (HMSO. 1949. 4s. 6d.)

Very full report of survey of existing USA district heating as applied to housing. 118 pp. Illustrated. Seven appendices. A most valuable survey.

This is a report of a Government Mission which investigated district heating as applied to housing. Eighty installations were visited and a wealth of valuable information was collected in spite of difficulties in obtaining information in comparable form from different schemes.

The report is divided into four parts and appendices. Part I gives a general picture and will be found most useful to architects too busy to read the whole report. At the end of this part are the general conclusions reached by the Mission.

Part 2 gives fairly detailed descriptions of some selected schemes. Part 3 discusses costs and choice of systems. Part 4 includes technical information of a more detailed nature.

The most useful information is contained in the conclusion to Part I, which includes the following points:—

- (a) That district heating has only been applied to residential areas in more recent years and that such districts are rarely supplied from commercial centres, but blocks of flats are often linked to housing.
- (b) The system is frequently chosen by local authorities for low-cost housing, but is seldom used on estate houses built for sale. Where used for housing, although overall densities may be comparable to those in this country, the actual houses are often more closely grouped.
- (c) It is general practice for local housing authorities in USA to provide tenants with heat, light and power and hot water whether district heating is available or not, and the tenant is not charged separately for these services. The heating is usually sufficient to keep the whole house at 70° F.
- (d) Often the combined charge to tenants is adjusted according to ability to pay.
- (e) In conditions in America, district heating affords a greater measure of control over fuel consumption than is possible with separate appliances in the individual dwellings.
- (f) There is clear evidence that district heating can result in substantial fuel economy. Difference in price of bulk fuel supplies is the chief factor in determining whether it is economic.
- (g) Temperature control is sometimes very efficient, but sometimes does not exist. It is an important factor in economy. Hot water systems are usually chosen

on new schemes, probably on account of greater ease of temperature control.

- (h) Methods of financing housing are different in USA, where both first cost and running cost are carefully considered. In general, district heating appears economic on this basis.
- (i) The size of schemes varied from 50 to over 2,000 dwellings. The small group heating systems did not appear to have any advantages and operating costs were high. Schemes of over 130 houses were working with every satisfaction and, provided the smaller ones could be run with part-time labour, the question of size did not appear to have a determining effect on economics.
- (j) American experience makes it clear that it would be folly to embark on district heating in this country without incorporating adequate structural insulation in the houses.

23.98 heating and ventilation
HOUSE HEATING

The Efficiency of House Heating. J. C. Weston. (J. Inst. of Fuel. Feb., 1949.)

Report on heating trials at the Abbots Langley Estate of the BRS. Deals with trials of twenty unoccupied houses and follows the same general lines as an earlier report published in the RIBA Journal. (See 23.99.)

This feature answers any question connected with building confidentially and free of charge. Questions to the Technical Editor, The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1.

QUESTIONS AND ANSWERS**2989 RAGBOLT FIXING**

Q In spite of the many proprietary fixing methods now on the market I notice a great many contractors still adopt the traditional ragbolt method of fixing, even though this involves jumping a large hole and waiting for the filler to set. I have heard it suggested that ragbolts properly used give more accurate results. Is there any truth in this?

A Where most normal building operations are involved, patent fixing methods are quite accurate enough, although difficulties may be met where, owing to the nature of the material, in which the hole for the fixing is drilled, the punch goes off-centre and the hole is consequently slightly out of line. Where a very high degree of accuracy is necessary and the material to which the bolt has to be fixed is very hard to pierce (a typical example being a machine tool fitted to a concrete foundation), ragbolts may offer an advantage, in so far that they can be attached to a template and grouted in position, still being held relatively true to each other by the template. Such a high degree of accuracy is, however, rarely required, and for all practical purposes proprietary fixing methods are perfectly satisfactory.

The form printed below is to assist readers requiring up-to-date information on building products and services. Complete and post it to The Architects' Journal, 9, 11 and 13, Queen Anne's Gate, S.W.1, and the advertisers listed will be asked to supply information direct.

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Announcements

Roller Shutters, Ltd., have changed their address to 241-242, Great Lister Street, Birmingham (tel.: Aston X 2028).

E. K. Cole, Ltd., announce the appointment of Mr. G. R. Wibrow as Technical Sales Representative for Thermovent Heating in the South London area and South-Eastern Counties. Mr. Wibrow will operate from the Company's London Office, 5, Vigo Street, W.1.

The Director of the Birmingham School of Architecture would be glad to receive trade catalogues, if possible in duplicate, at the School of Architecture, College of Arts and Crafts, Margaret Street, Birmingham, 3.

The Compulsory Purchase of Land Regulations, 1946, have been revised by the MOH, and a copy of the Compulsory Purchase of Land Regulations, 1949, which take their place, has been sent to local authorities. Further copies can be obtained from HMSO, price 4d.

The Ministry of Works regional offices at Newton Street, Virginia House, Great Ancoats Street, and Hudson Buildings, Great Ancoats Street, are now accommodated at Government Buildings, Warwick Road South, Manchester, 16.

Mr. P. R. Middleton, A.R.I.B.A., D.I.P.A., has recently taken up his duties as architect to the Education Committee, County Borough of Middlesbrough, and would be pleased to receive trade catalogues at the Education Offices, Woodlands Road, Middlesbrough.

The Board of Trade announce that the control of the allocation of white lead and titanium oxide has ceased. Ordinary trading conditions are now established, and applications for white lead and titanium oxide should be made direct to the suppliers.

Mr. Norman A. Wright, who, for the past two years, has been vice-president of the

TDA has been elected president. Mr. H. R. Woodburn Bamberger succeeds him as vice-president.

Messrs. Davis, Belfield and Everest, Chartered Quantity Surveyors, 9, Ashley Place, S.W.1, have taken into partnership Mr. E. R. Parrinder, A.R.I.C.S., who has been a senior member of the firm for some years. The style of the firm is unchanged.

Mr. F. Stanley Seagrim, L.R.I.B.A., has taken into partnership Mr. Charles Read, L.R.I.B.A. The practice will continue under the style of Stanley Seagrim and Charles Read, Lloyds Bank Chambers, Paignton; (telephone: Paignton 57964). They will welcome trade catalogues and price lists.

New members appointed to the Building Research Board of the Department of Scientific and Industrial Research are:—Mr. C. W. D. Rowe, C.B., M.B.E., Mr. B. Sandercock, O.B.E., and Mr. R. M. Wynne Edwards, O.B.E., D.S.O.

Buildings Illustrated

Flats at Cromer Street, St. Pancras (pages 453-455). Architects, Robert Hening and Anthony Chitty, F.R.I.B.A. General Contractors, Stewart and Partners Ltd. Sub-contractors: Floors and staircases, Bradfords Ltd.; Flooring Contracts Ltd.; steelwork, Boulton & Paul Ltd.; lifts, Keighley Lifts Ltd.; windows, Williams & Williams Ltd.; heating and hot water, Aidas Electric Water Heaters Ltd.; ironmongery, J. D. Beardmore & Co. Ltd.; sanitary equipment, Broad & Co.; Dent & Hellyer, Ltd.; John Bolding Ltd.; railings, Light Steelworks Ltd.; Grundy Arnatt Ltd.; gardens, William Fromow & Sons; wood blocks, Vigers Bros. Ltd.; coloured asphalt, Lawford Asphalt Co.

Ltd.; flat roofing, Standard Flat Roofing Co. Ltd.; radio, London Rediffusion Service Ltd.

Information Office, Stevenage (page 456). Architect, Hugh Casson, M.A., A.R.I.B.A. General Contractor, W. Austin & Sons. Sub-contractors: Glass, Charles Bird & Sons Ltd.; flooring, The Great Metropolitan Flooring Co. Ltd.; electric light fixtures, Stevenage Electrical Eng. Co.; electric heating, General Electric Co. Ltd.; door furniture, Whitliff Corporation Ltd.

Technical Laboratory at Stroud (pages 457-459). Architect, Messrs. Gordon Payne and Preece. General contractor, G. Percy Trentham Ltd. Sub-contractors: Asphalt, Asphalte Specialists Ltd.; reinforced concrete, Homan & Rogers Ltd.; bricks, Coleford Brick & Tile Co. Ltd.; artificial stone, Alexandra Stone Co.; tiles, Carter & Co. (London), Ltd.; glass, Pilkington Bros. Ltd.; woodblock flooring, Stevens and Adams, Ltd.; central heating, G. N. Haden Ltd.; electric wiring, W. T. Turner & Co.; electric light fixtures, General Electric Co. Ltd.; plumbing, Arthur Scull & Son Ltd.; sanitary fittings, Gardiner, Sons & Co. Ltd.; casements, Hills (West Bromwich), Ltd.; telephones, Telephone Rentals Ltd.; plaster, W. A. Telling Ltd.; joinery, Cheltenham Shopfitting Co. Ltd.; lifts, Waygood Otis Ltd.; paint finishes, Paripan Ltd.; clocks, Smiths English Clocks Ltd.

Houses at Sanderstead, Surrey (page 460). Architect, Hugh Macintosh & Partners. General Contractor, Grace & Marsh Ltd. Sub-contractors: Reinforced concrete, BRC; bricks, Rustic Flettons; artificial stone, Kendall Artificial Stone Co.; tiles, Roberts & Burling Ltd.; woodblock flooring, Vigers Bros. Co. Ltd.; electric wiring, Sparks Electric; sanitary fittings, Goslets; door furniture, Parker, Winder & Achurch (1925) Ltd.; casements, Crittalls Manufacturing Co. Ltd.

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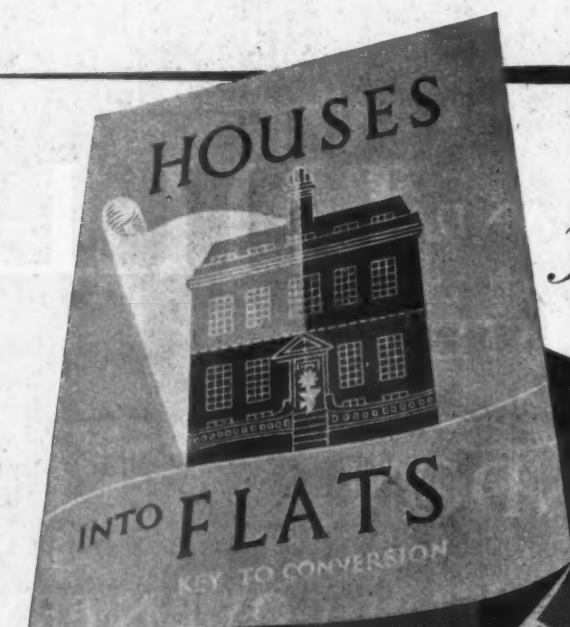
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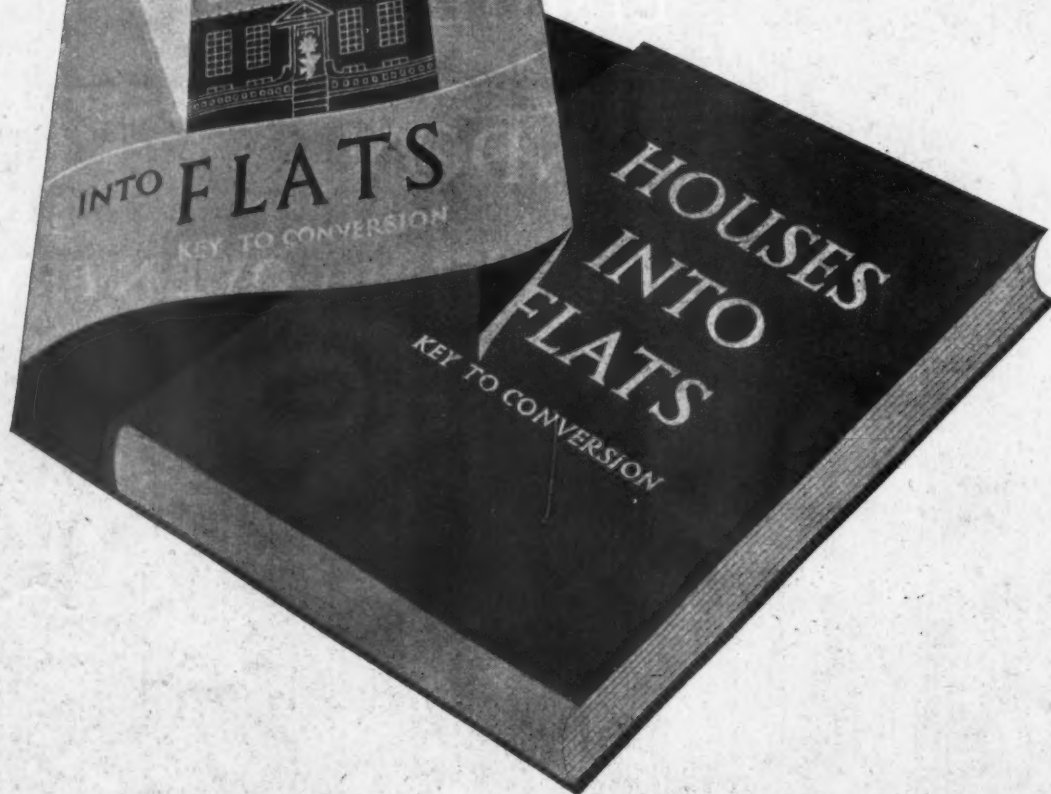
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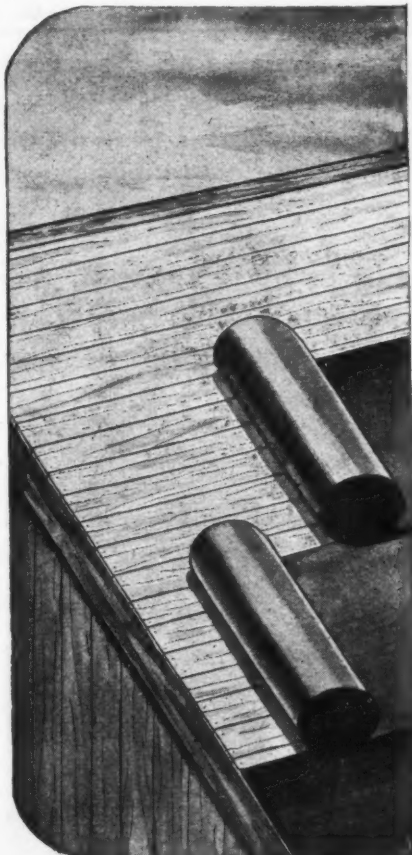
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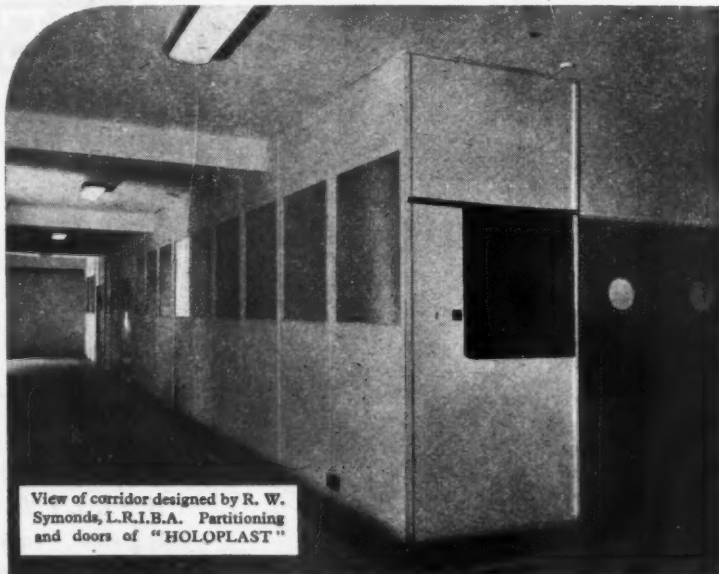
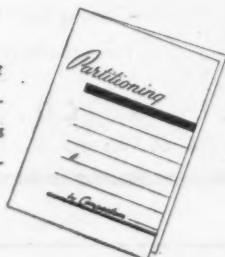
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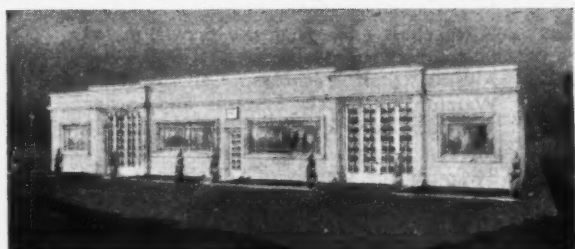
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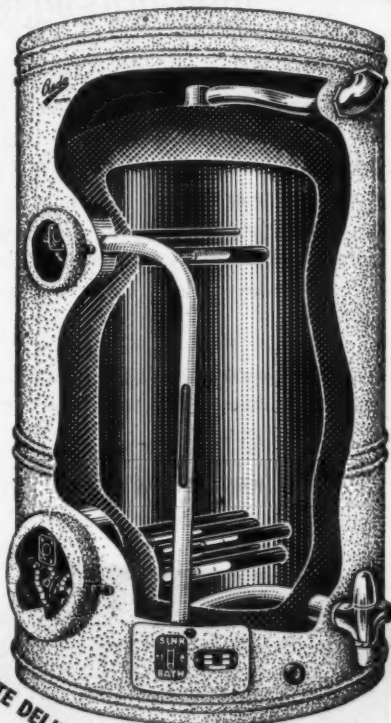
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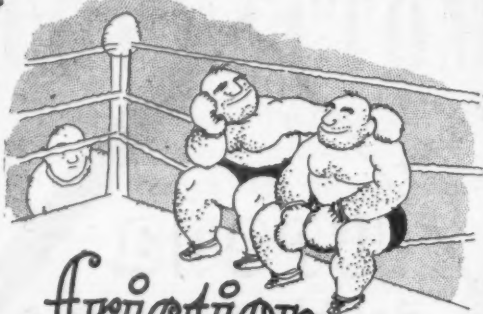
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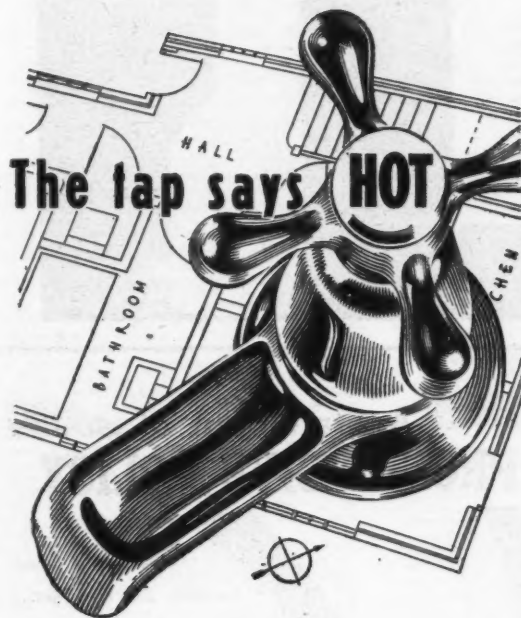
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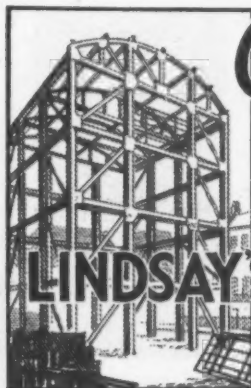
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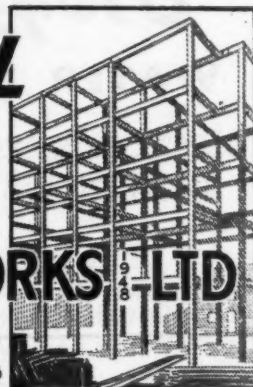


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Successful candidates will be required to undertake the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Housing Architect's Division. Preference will be given to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

Forms of application may be obtained from the Director of Housing, The County Hall, Westminster Bridge, S.E.1 (stamped addressed envelope required, and quote Ref. G.R.3). Canvassing disqualifies. (2369) 1046

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

Applications, stating age, qualifications, experience, etc., together with copies of two recent testimonials, should be sent to the undersigned in envelopes appropriately endorsed so as to be received not later than Saturday, 21st May, 1949.

Canvassing disqualifies, and applicants must state whether to their knowledge they are related to any member or senior officer of the Council.

F. H. ASHTON.

Town Clerk.

Town Hall, Prestwich, Lancs.

29th April, 1949.

754

BOROUGH OF WORTHING.

APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of a Senior Architectural Assistant, on the permanent establishment of the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VI, commencing salary £595, rising by three annual increments to £660 per annum.

Candidates should be Associates of the Royal Institute of British Architects, and should have a sound experience in the preparation of drawings and specifications for all types of building work carried out by a Local Authority.

The appointment will be subject to the National Scheme of Conditions of Service of Local Government Officers, to the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination. The Council will assist the successful applicant to obtain housing accommodation, if necessary.

Applications, endorsed "Senior Architectural Assistant, Grade VI," stating age, qualifications, present and previous appointments and experience with dates, and accompanied by copies of three recent testimonials, should be addressed to the Borough Engineer and Surveyor, Town Hall, Worthing, and should be received by him not later than 12 noon on Wednesday, 1st June, 1949.

ERNEST G. TOWNSEND.

Town Clerk.

Town Hall, Worthing.

28th April, 1949.

869

CITY OF PORTSMOUTH.

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V. BLANCHARD.

Town Clerk.

City Council Chambers.

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29th April, 1949.

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- (b) MECHANICAL ENGINEERING. General design, assembly and layouts of modern Boiler and Fuel Handling Plant, Turbo-Alternators and Condensing Plant, Circulating Water, Steam and Feed Piping, Foundations, etc.

- (c) CIVIL ENGINEERING. General design of Steel and Reinforced Concrete Structures, Foundations Retaining Walls, Tunnels, etc.

- (d) ARCHITECTURAL ASSISTANTS. Applications are invited for men (preferably qualified) with experience in design of architectural work for modern Power Stations, Office and Welfare Buildings.

Posts will be subject to Superannuation deductions in accordance with the Authority's Superannuation Scheme.

Applications must be submitted on the official form, which may be obtained from Divisional Establishments Officer, at the under-mentioned address, and must be completed and delivered not later than Monday, 23rd May, 1949.

W. S. BURGE.

Divisional Controller.

British Electricity Authority.

British Electricity House,

Barker Gate, Nottingham.

DHB/IW/63/23/37.

29th March, 1949.

851

METROPOLITAN BOROUGH OF WANDSWORTH.

ARCHITECTURAL ASSISTANT.

Applications are invited for the established appointment of Architectural Assistant, in the Borough Architect's Department, at a salary in accordance with Grade A.P.T. II, viz., £450-£495 per annum inclusive.

Candidates should have had professional training and experience in housing and general architectural work.

Forms of application may be obtained from the Borough Architect, and must be returned to the undersigned not later than 25th May, 1949.

R. H. JERMAN.

Town Clerk.

Municipal Buildings, Wandsworth, S.W.18.

3rd May, 1949.

891

LIVERPOOL REGIONAL HOSPITAL BOARD.

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

- SENIOR ASSISTANT ARCHITECT, Grade A.P.T., VIII, £685-£725 to £760 p.a.

Applicants must be Associates of the Royal Institute of British Architects, and preferably have had experience in the design and construction of hospitals, and must be capable of carrying out and advising on large building contracts.

- ASSISTANT ARCHITECT, Grade A.P.T., VI, £595 to £660 p.a.

Applicants should be Associates of the Royal Institute of British Architects, and must have a good general experience and ability in design and construction.

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

Applications, stating age, education, qualifications, experience, present and previous appointments, salary, war service, together with the names and addresses of three referees, should be sent to the undersigned, c/o Alder Hay Hospital, Eaton Road, Liverpool, 12, to be received not later than 27th May, 1949.

VINCENT COLLINGE.

Secretary to the Board.

30th April, 1949.

878

METROPOLITAN BOROUGH OF PADDINGTON.

HOUSING DEPARTMENT.

Appointment of:—

- (a) TWO ARCHITECTURAL ASSISTANTS.
- (b) TWO JUNIOR ARCHITECTURAL ASSISTANTS.

- (c) TWO ASSISTANT QUANTITY SURVEYORS.

- (d) ONE QUANTITY SURVEYOR'S ASSISTANT.

Applications are invited for the above-mentioned appointments on the permanent establishment of the Housing Department, Architectural Section (which also deals with all Council's building work).

(a) TWO ARCHITECTURAL ASSISTANTS. Salary within Grades III-IV, A.P.T., Division (£450-£525 per annum), according to experience and qualifications, plus London "weighting" allowance. Candidates must be suitably qualified, have had a good general architectural training and experience, and possess a sound knowledge of construction. Experience in multi-storey blocks of flats will be an advantage. Preference will be given to Associates of the R.I.B.A., or those in an advanced stage of preparation for the Final Examination of that Institute.

(b) TWO JUNIOR ARCHITECTURAL ASSISTANTS. Salary within Grade I of the A.P.T. Division (£390-£435 per annum), according to experience and qualifications, plus London "weighting" allowance. Applicants must have passed or be about to sit for the Intermediate Examination of the Royal Institute of British Architects, be used to preparing working and detail drawings, and be good draughtsmen.

(c) TWO ASSISTANT QUANTITY SURVEYORS. Salary within Grade VI(a) of the A.P.T. Division, viz., £550 per annum, plus £20-£610 per annum, plus London "weighting," according to age. The commencing salaries will be fixed within the Grade according to experience and qualifications of the successful candidates. Applicants must have experience in all branches of building work, should be familiar with every aspect of a Quantity Surveyor's duties, including preparation of estimates, bills of quantities, abstracts, specifications and cost statistics, and be able to measure up for interim and final certificates and to settle final accounts. Candidates should have passed the Final Examination of the Royal Institution of Chartered Surveyors (Quantities Sub-Division) or be otherwise suitably qualified.

(d) ONE QUANTITY SURVEYOR'S ASSISTANT. Salary within A.P.T. Division, Grade II, viz., £420 per annum, plus £15-£465 per annum, plus London "weighting," according to age, commencing at a point within the Grade commensurate with experience and qualifications. Applicants should have experience in all branches of building work, and should be familiar with all aspects of a Quantity Surveyor's duties, including preparation of estimates, bills of quantities and abstracts. Preference will be given to candidates who have passed or are at the standard of the Intermediate Examination of the Royal Institution of Chartered Surveyors (Quantities Sub-Division).

These appointments will be subject to one month's notice on either side, to the provisions of the Council's Superannuation Acts and Standing Orders, and to the National Joint Council's Scheme of Conditions of Service. The London "weighting" allowance, which is payable in all cases in addition to the basic salaries, is at present at the following rates:—Age 16/20 years, inclusive, £10 per annum; age 21/25 years, inclusive, £20 per annum; age 26 years and over, £30 per annum.

Applications for these appointments, stating age, qualifications, present and previous appointments with salaries, and experience, together with the names of three authorities or persons to whom reference may be made, should be delivered to the undersigned not later than noon on Tuesday, 31st May, 1949. No application forms are being issued.

Canvassing, directly or indirectly, will be a disqualification, and applicants must state in writing whether, to their knowledge, they are related to any member of or the holder of any senior office under the Council.

W. H. BENTLEY.

Town Clerk.

Town Hall, Paddington, London, W.2.

12th May, 1949.

977

COUNTY BOROUGH OF EAST HAM.

TEMPORARY ARCHITECTURAL ASSISTANT—HOUSING DEPARTMENT.

Applications are invited for the temporary appointment of Architectural Assistant, at a salary in accordance with Grade A.P.T., VIII, of the National Scales (£635-£725-£710 per annum), plus London allowance. The commencing salary may be in excess of the minimum of the scale, according to the qualifications and experience of the person appointed.

Candidates must be Fellows or Associates of the Royal Institute of British Architects, and have had administrative experience in the housing work of a Local Authority. A Town Planning qualification would be of advantage.

The Council will be prepared to consider applications for a subsistence allowance in appropriate cases should applicants be unable to obtain suitable housing accommodation.

Applications on forms obtainable from me are returnable by noon on Tuesday, the 7th June, 1949.

H. A. EDWARDS.

Town Clerk.

Town Hall, East Ham, E.6.

1000

DIVISIONAL ARCHITECT.

Applications are invited for the appointment of Divisional Architect to the Northern Divisional Coal Board.

Salary according to qualifications and experience.

Applications, stating age, qualifications and experience, should be sent within 14 days of publication to the Secretary, Northern Divisional Coal Board, 4th Floor, Collingwood Buildings, Collingwood Street, Newcastle-upon-Tyne, 1.

METROPOLITAN BOROUGH OF WOOLWICH. APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Chief Architectural Assistant in the Borough Engineer and Surveyor's Department.

Salary scale £760 per annum, rising by annual increments of £25 to a maximum of £910 per annum, together with a motor car allowance in accordance with the National Charter Scale. The commencing salary will be fixed according to the experience of the successful candidate.

The appointment will be subject to the Council's Conditions of Service in force from time to time, to the provisions of the Local Government Superannuation Act, 1937, and will be terminable by one month's notice on either side.

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

Candidates must have passed the Final examination of the R.I.B.A., and have had experience in architectural work, especially housing, undertaken by a Local Authority, the organization of the work and the supervision of staff.

Applications should be made on a form to be obtained from the Borough Engineer, Town Hall, Woolwich. These must be returned to the undersigned, with the names of three referees, not later than 3rd June, 1949.

Candidates must disclose, in writing, if they are related to any member or senior officer of the Council.

Canvassing members of the Council, either directly or indirectly, will disqualify.

DAVID JENKINS.

Town Clerk.

Town Hall, Woolwich, S.E.18.

May, 1949.

COUNTY BOROUGH OF MIDDLESBROUGH. EDUCATION COMMITTEE. ARCHITECT'S DEPARTMENT.

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

(a) One CHIEF ASSISTANT ARCHITECT. A.P.T. Division, VIII (salary £685-£760 per annum).

(b) ONE ASSISTANT ARCHITECT. A.P.T. Division, VI (salary £595-£660 per annum).

(c) TWO ASSISTANT ARCHITECTS. A.P.T. Division, V (salary £520-£570 per annum).

In respect of appointments (a) and (b), certain housing accommodation is being made available, and can if necessary be provided by the Authority for the successful applicant.

Applicants for appointment (a) must be Associates of the Royal Institute of British Architects; be fully conversant with the design and construction of school buildings in accordance with the requirements of the 1944 Education Act, and be capable of the supervision of drawing office staff under the Education Architect.

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

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

Forms of application (which should be returned not later than 9 a.m. on Friday, 3rd June, 1949) and conditions of service may be obtained from the Director of Education, Education Offices, Woodlands Road, Middlesbrough.

R. C. PARR.

Town Clerk.

9

THE CRAWLEY DEVELOPMENT CORPORATION requires:—

(a) ASSISTANT ARCHITECTS on the salary scale £550-£750.

Applicants should have first-class general experience in design and construction, particularly of housing and house design, and must be fully qualified.

(b) JUNIOR ASSISTANT ARCHITECTS on the salary scale £400-£525.

Applicants should be able to attain the R.I.B.A. Intermediate examination standard.

The commencing salary within the range and scale will be determined by the qualification, age, and experience of the applicant. The appointment will be to serve the Corporation at Crawley. Contributory superannuation (with the choice of entering a fund under the Local Government Superannuation Act, 1937) will be provided. Apply by letter only, stating: (a) name and address; (b) age; (c) married or single; (d) present post and salary; (e) post now applied for and salary required; (f) notice required to terminate present appointment; (g) education; (h) qualifications; (i) particulars of experience; (j) names and addresses of three persons to whom reference may be made concerning the applicant's professional ability, to the Chief Architect, Mr. A. G. Sheppard Pinder, M.A., R.Arch., A.R.I.B.A., A.M.P.E.I., Broadfield, Crawley, Sussex, by 30th May, 1949.

C. A. C. TURNER.

Chief Executive.

998

BEDFORDSHIRE COUNTY COUNCIL.

ASSISTANT ARCHITECTS.

Applications are invited from suitably qualified applicants for the following positions in the Department of the County Architect:—

ARCHITECTS. A.P.T., Grade VI (£595-£660) and VII (£635-£710). Should be Chartered Architects, experienced in the design of public buildings.

ASSISTANT ARCHITECTS. A.P.T., Grade IV (£480-£525). Should have reached Inter. R.I.B.A. stage and have experience in detail drawing.

ASSISTANT ARCHITECTS. A.P.T., Grade II (£420-£465). Should have considerable training and ability for ultimate promotion.

Applications to be made on the form obtainable from the County Architect, Shire Hall, Bedford. Completed forms should reach the undersigned on or before 10th June, 1949.

J. B. GRAHAM.

Clerk of the County Council.

Shire Hall, Bedford.

9th May, 1949.

962

FLINTSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointment:—

PLANNING ASSISTANT (ARCHITECTURAL), at a salary in accordance with Grade A.P.T., VI (£595, rising to £660 per annum, consolidated). Applicants should have had considerable experience, including the control of development, in the Planning Office of a Local Authority or joint planning committee, and particularly on the architectural side of planning. The possession of a recognized architectural qualification and Corporate Membership of the Town Planning Institute is desirable. A car is essential in connection with the appointment, for which an allowance will be made in accordance with the National Joint Council's scale.

The appointment will be subject to (a) the National Scheme of Conditions of Service, as modified by the County Council; (b) the Local Government Superannuation Act, 1937, and (c) the passing satisfactorily of a medical examination.

Applications will be considered from registered disabled persons.

Applications, on a form to be obtained from the undersigned, accompanied by a copy of one recent testimonial and the names and addresses of two other persons to whom direct reference can be made, are to be submitted to me not later than the 1st June, 1949.

W. HUGH JONES.

Clerk of the County Council.

County Buildings, Mold.

May, 1949.

943

CUMBERLAND COUNTY COUNCIL.

APPOINTMENT OF PLANNING ASSISTANT.

Applications are invited for the above appointment within A.P.T., Grade VI, of the National Scales, at a salary of £595-£660, with a car allowance (at present £50 per annum, plus a mileage allowance) and a subsistence allowance in accordance with the County Council's scale. The appointment is subject to the Local Government Superannuation Act, 1937, and the successful candidate will be required to undergo a medical examination.

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

Applicants should be Members or Associate Members of the Town Planning Institute, and a qualification in Civil Engineering or in Architecture will be an advantage.

The duties of the post will involve the collation of survey material, the preparation of development plans, and control of development.

Applications, stating age, qualifications, experience and previous appointments held, accompanied by names and addresses of two referees and a copy of one recent testimonial, should be sent to the County Planning Officer, Citadel Chambers, Carlisle, to arrive not later than the first post on Monday, 6th June, 1949.

G. N. C. SWIFT.

Clerk of the County Council.

The Courts, Carlisle.

988

BURGH OF KILMARNOCK.

BURGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointment:—

ASSISTANT ARCHITECT. Salary Grade A.P.T., V (£530-£515-£415-£20 to £570).

The above salary scale is inclusive of war bonus, which has now been consolidated with the salary.

Applicants should be Registered Architects.

Applicants must not exceed 45 years of age unless they are already contributory employees under the Local Government and Other Officers' Superannuation (Scotland) Act, 1937, but those who have been on war service may, if necessary, deduct the period of such service from their present age to satisfy the condition as to age limit.

The person selected for appointment will require to pass a medical examination, and on satisfying this condition will become a contributory employer under the above-mentioned Act.

Applications, accompanied by one copy of each of three testimonials and giving full details of age, qualifications, experience, and previous appointments held, and stating post for which application is being made, should be lodged with The Burgh Architect and Town Planning Officer, 11, London Road, Kilmarnock, not later than Monday, the 30th May, 1949.

W. L. WALKER.

Town Clerk.

Council Chambers, Kilmarnock.

964

COUNTY BOROUGH OF BOLTON.

Applications are invited for the following permanent appointments in the Borough Engineer and Surveyor's Department, viz.:—

(a) CHIEF ARCHITECTURAL ASSISTANT. Salary £850 per annum.

(b) THREE ARCHITECTURAL ASSISTANTS. A.P.T., Grade VIII, £685 to £760 per annum.

(c) ONE ARCHITECTURAL ASSISTANT. A.P.T., Grade V.VI, £520 to £660 per annum.

(d) ONE ARCHITECTURAL ASSISTANT. A.P.T., Grade III-IV, £450 to £525 per annum.

(e) TWO TRACER/DRAUGHTSMEN. Misc. II, £375 to £420 per annum.

Candidates for post (a) should be Associate R.I.B.A., with extensive professional experience, and capable of supervising staff and controlling large general contracts and direct labour schemes.

Candidates for posts (b) and (c) should have passed the Final examination of the R.I.B.A., and have had considerable experience in the design and construction of new buildings, including schools.

Candidates for post (d) should have passed the Intermediate examination of the R.I.B.A.

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

Applications, suitably endorsed, giving details of age, training, qualifications and experience, with copies of not more than three recent testimonials, should be addressed to the undersigned not later than 3rd June, 1949.

PHILIP S. RENNISON.

Town Clerk.

Town Hall, Bolton.

932

BOROUGH OF NEWCASTLE-UNDER-LYME.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CHIEF ARCHITECT.

Applications are invited for the appointment of Chief Architect, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T., VII, of the National Scales, viz., £635-£725 to £710.

Candidates should be Members of the Royal Institute of British Architects and must have had sound experience in architectural design, particularly as applied to schools and public buildings generally.

The appointment will be subject to two months' notice on either side, the National Conditions of Service, and to the provisions of the Local Government Superannuation Act, 1937.

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

Further particulars regarding the duties of the appointments, together with a form of application, may be obtained from the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs.

Applications on the prescribed form and endorsed "Chief Architect" should be sent to the Borough Engineer and Surveyor not later than 28th May, 1949.

Canvassing, directly or indirectly, will disqualify the candidate.

C. J. MORTON.

Town Clerk.

13th May, 1949.

METROPOLITAN BOROUGH OF LEWISHAM.

APPOINTMENT OF PRINCIPAL ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Principal Architectural Assistant in the Borough Architect's Department.

The salary scale applicable to the appointment will be £810 per annum, rising by annual increments of £50 to £960 per annum inclusive.

The appointment will be subject to the Rules and Regulations of the Council from time to time in force relating to officers; to the National Scheme of Conditions of Service; to the provisions of the Local Government Superannuation Act, 1937; to the satisfactory passing of a medical examination by the Council's Medical Officer of Health, and to termination by one month's notice on either side.

Applicants should be Fellows or Associates of the Royal Institute of British Architects, experienced in design and construction of multi-storey flats and public buildings.

Forms of application may be obtained from me and should be returned, accompanied by copies of not more than three testimonials, addressed to me in an envelope endorsed "Principal Architectural Assistant," so as to be received not later than Saturday, the 4th June, 1949.

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

ALAN MILNER SMITH.

Town Clerk.

Lewisham Town Hall, Catford, S.E.6.

963

HEREFORDSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

TWO ASSISTANT ARCHITECTS. Grade VIII, A.P.T. Division, £585-£725 to £760 per annum.

Candidates must be Associate Members of the R.I.B.A. and be able to take charge of a section of the drawing office.

The appointments will be subject to the provisions of 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.

Forms of application may be obtained from W. Usher, A.R.I.B.A., County Architect, County Offices, Bath Street, Hereford, by whom completed applications should be received not later than 27th May, 1949.

950

BATTERSEA BOROUGH COUNCIL. **APPOINTMENT OF: (1) SENIOR ARCHITECTURAL ASSISTANT, (2) ENGINEERING ASSISTANT.**

Applications are invited for the following permanent appointments:—
Senior Architectural Assistant. Salary in accordance with A.P.T. Grades V-VI, of the National Scale, namely £520-£660 per annum.
Engineering Assistant. Salary in accordance with A.P.T. Grades IV-V, of the National Scale, namely £480-£570 per annum.
London weighting, according to age, is payable in addition in both cases.

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

Applications, on forms which may be obtained from the Borough Engineer and Surveyor, Town Hall, Lavender Hill, S.W.11, accompanied by copies of three recent testimonials should be delivered to the undersigned not later than noon on Wednesday, the 1st June, 1949.

R. G. BERRY,

Town Clerk.

Town Hall, Lavender Hill, S.W.11.
May, 1949. 973

WEST SUFFOLK COUNTY COUNCIL. **COUNTY ARCHITECT'S DEPARTMENT.** **APPOINTMENT OF DEPUTY COUNTY ARCHITECT.**

Applications are invited for the appointment of Deputy County Architect, at a salary on A.P.T. Grade VIII (£685-£760), commencing salary according to qualifications and experience.

Applicants should be fully qualified, preferably Associates of the Royal Institute of British Architects, and should have had considerable experience of architectural design and construction, and be capable of assuming full responsibility and supervision of the day-to-day work of the Department, which is mainly concerned with new school, police, and health building work, and general maintenance and improvements of the County buildings; also possess organizing ability and experience in the management of building contracts.

The appointment will be terminable by two months' notice in writing on either side, and will be subject to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Forms of application may be obtained from the undersigned, by whom applications, together with the names of two referees, should be received as soon as possible.

L. G. H. MUNSEY,

Clerk of the County Council.

Shire Hall, Bury St. Edmunds.
11th May, 1949. 990

METROPOLITAN BOROUGH OF HACKNEY. **BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for this permanent appointment in Grades A.P.T., V(a)-VI (£550-£660 p.a., plus London weighting allowance). The commencing salary may be fixed at a point above the minimum, according to the qualifications and experience of the successful candidate.

Candidates must have had a good general experience in design and construction, and hold an appropriate professional qualification.

In addition to general architectural work, the successful candidate will be required to undertake the oversight of the maintenance of Council's properties, including the preparation of specifications for, and the supervision of repairs, and to deal with War Damage claims.

Conditions of appointment and application forms may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope.

Completed application forms, endorsed "Assistant Architect," must be returned not later than first post on the 31st May, 1949. The Council is unable to provide any housing accommodation.

DUDLEY SORRELL,

Town Clerk.

Town Hall, Hackney, E.8.
5th May, 1949. 995

CITY OF PETERBOROUGH. **CITY ENGINEER AND SURVEYOR'S DEPARTMENT.**

Applications are invited for the appointment of TWO ARCHITECTURAL ASSISTANTS, on the staff of the City Engineer and Surveyor, at a salary in accordance with Grade III, A.P.T., i.e., £480, rising by annual increments to £495 per annum.

Applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings under supervision.

The City Council have adopted the National Scheme of Conditions of Service. The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and successful applicants will be required to pass a medical examination. Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials, and suitably endorsed, must be delivered to the undersigned not later than 28th May, 1949.

Applicants must disclose whether they are related to any Senior Officer or Member of the Authority.

ARTHUR J. REEVES,

Town Clerk.

Town Hall, Peterborough.
May, 1949. 961

STAFFORDSHIRE COUNTY COUNCIL. **EDUCATION COMMITTEE.**

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

(a) SECTION ARCHITECTS. Grade VII, A.P.T. Division (£635×£25-£710 per annum).

(b) ASSISTANT ARCHITECTS. Grade VI, A.P.T. Division (£595×£20×£20×£25-£660 per annum).

(c) SENIOR ASSISTANTS. Grade V, A.P.T. Division (£520×£15×£15×£20-£570 per annum).
(d) JUNIOR ASSISTANTS. Grades I to IV, A.P.T. Division (£390-£525), according to qualifications and experience.

Applicants for post (a) are required to be Associate Members of the R.I.B.A., and capable of a high standard of design. Preference will be given to those candidates who have had experience in the control of staff.

Applicants for post (b) are required to be Associate Members of the R.I.B.A. Preference will be given to candidates having a sound knowledge and experience in the construction and design of all types of school buildings.

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.

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 three recent testimonials.

All applications are required to be received not later than the 28th May, 1949.

T. H. EVANS,

Clerk of the County Council.

METROPOLITAN BOROUGH OF HACKNEY. **BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

APPOINTMENT OF TOWN PLANNING ASSISTANT.

Applications are invited for this permanent appointment, at a salary in accordance with Grades A.P.T., IV-V (£480 p.a.-£570 p.a., plus London weighting allowance). The commencing salary may be fixed at a point above the minimum of the Grade specified, according to the qualifications and experience of the successful candidate.

Applicants should state fully the extent of their training, and should have passed a recognized examination in Town Planning or provide evidence of intention to do so. Particulars of Town Planning experience should be given and reference made to any previous experience or qualifications in Civil Engineering or Architecture.

Conditions of appointment and application forms may be obtained from the undersigned upon receipt of a stamped addressed envelope.

Completed application forms, endorsed "Town Planning Assistant," must be returned not later than first post on the 31st May, 1949. The Council is unable to provide any housing accommodation.

DUDLEY SORRELL,

Town Clerk.

Town Hall, Hackney, E.8.
5th May, 1949. 994

COUNTY OF CORNWALL.

APPOINTMENT OF DRAUGHTSMEN.

Applications are invited for the posts of Draughtsmen in (a) the Headquarters Office at Truro, and (b) the Area Office at Liskeard, of the County Planning Department, on a Grade £315×£15-£420 a year.

Successful candidates for appointment (a) will be engaged on surveys and work incidental to the preparation of the Development Plan, and for appointment (b) in the control of development and work in connection with development applications.

They should be expert colourists and draughtsmen capable of expeditiously rendering drawings and tracings and preparing cartons. These vacancies are of particular interest to those persons intending to make a career in Town and Country Planning, and every encouragement will be given by the County Council, including financial assistance, to candidates preparing for appropriate examination qualifications.

All the foregoing appointments are subject to the provisions of the Local Government Superannuation Act, 1937, and each successful candidate will be required to pass a medical examination. Canvassing, either directly or indirectly, will disqualify, and every candidate must disclose in the application whether to their knowledge he or she is related to any member of the Council, or to the holder of any senior office under the Council.

Applications, together with the names of three persons to whom reference may be made, should be addressed to the County Planning Officer, County Hall, Truro, not later than 4th June. No application forms are issued. This advertisement is issued by permission of the Ministry of Labour and National Service, under the Control of Engagement Order, 1947.

E. T. VERGER,

Clerk of the County Council.

County Hall, Truro.
6th May, 1949. 940

WANTED for Railway Civil Engineer's Office, in Glasgow. Temporary ARCHITECTURAL ASSISTANT, capable of preparing working drawings from rough sketches, estimating, and supervising works in progress. Salary according to qualifications and experience. Box 920.

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a SENIOR ASSISTANT QUANTITY SURVEYOR, A.P. and T., Grade VI (£595 to £660).

The appointment, which is on the permanent staff, is subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

Applicants should be Members of the Royal Institution of Chartered Surveyors (Quantity Surveying Section).

Candidates must not be over 40 years of age, but this condition may be relaxed in the case of a person up to 45 years of age employed by another Local Authority.

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 Saturday, 4th June, 1949.

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

B. G. CATCHPOLE, A.R.I.B.A.,

City Architect.

Seymour Road, Plymouth. 913

COUNTY OF LINCOLN—PARTS OF

KESTEVEN.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT in the above Department. Experience in Education and general County work is desirable.

Salary will be in accordance with A.P.T. Division, Grades V and VI, of the National Scales, i.e., £520, rising by annual increments of £15 and £20 to a maximum of £660 per annum inclusive. Commencing salary will be in accordance with experience. Car and subsistence allowances will also be paid on the National Scales. A lodging allowance of 30s. a week up to a maximum of six months will be paid to married men where difficulty is found in obtaining housing accommodation.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, to a satisfactory medical certificate, and to one month's notice in writing on either side.

Applications, giving full particulars of age, experience, qualifications, and present appointment, together with copies of two testimonials or the names and addresses of two referees, should reach the undersigned not later than 3rd June, 1949. Canvassing, either directly or indirectly, will disqualify.

J. R. BLOW,

Clerk of the County Council.

County Offices, Sleaford, Lincs.
3rd May, 1949. 900

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT AND SENIOR ARCHITECTURAL ASSISTANT.

Applications are invited for the following appointments in the Borough Engineer's Department:—

Chief Architectural Assistant. Grade VI, A.P.T., £595-£660 p.a.
Senior Architectural Assistant. Grade V, A.P.T., £520-£570 p.a.

Previous experience in Local Government is not essential, and the Corporation will endeavour, where necessary, to purchase houses or flats for the successful applicants.

These appointments are subject to the Local Government Superannuation Act, 1937.

Applications, stating age, qualifications, present position, salary and experience, accompanied by copies of three recent testimonials and appropriately endorsed, should be delivered to the undersigned not later than Saturday, 28th May, 1949.

R. de Z. HALL,

Town Clerk.

Town Hall, Halifax.
2nd May, 1949. 911

BUCKS COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

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

(a) ASSISTANT ARCHITECTS, Grade VI. Salary £595-£660 p.a.

(b) SENIOR BUILDING SURVEYOR, Grade VI. Salary £595-£660 p.a.

(c) ASSISTANT BUILDING SURVEYOR, Grade IV. Salary £480-£525 p.a.

(d) ARCHITECTURAL ASSISTANT, Grade III. Salary £450-£495 p.a.

(e) ARCHITECTURAL ASSISTANT, Grade II. Salary £420-£465 p.a.

Travelling and subsistence allowances will be paid in accordance with the National Scheme of Conditions of Service for the time being in force.

The appointments are superannuable and subject to medical examination.

Further particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom applications must be delivered by 30th May, 1949. 902

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

Applications are invited for the following appointment:—
ARCHITECTURAL ASSISTANT, Grade I. Salary £390 to £435 per annum, plus London allowance of up to £30 per annum, according to age.

Applicants should be of good general training and give full details in their application.
It is desirable that applications should be accompanied by a small sample of the applicant's work.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-upon-Thames, not later than the 4th June, 1949.

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

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

DUDLEY AUKLAND,
Clerk of the Council.
County Hall, Kingston-upon-Thames. 999

**SALOP COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following appointments to established posts in the Department:—

(1) **CHIEF ASSISTANT QUANTITY SURVEYOR, A.P.T., Grade VIII.** Salary £685 to £760 per annum.

Applicants must be Members of the R.I.C.S. (Quantities Division), and have had administrative experience.

(2) **SENIOR ASSISTANT ARCHITECTS, A.P.T., Grades V-V.A.** Salary £520 to £610 per annum.

(3) **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., 5, Belmont, Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than Tuesday, 7th June, 1949.

G. C. GODBER,
Clerk of the Council.
Shrewsbury, May, 1949. 926

**COUNTY BOROUGH OF TYNEMOUTH.
BOROUGH SURVEYOR'S DEPARTMENT.**

STAFF VACANCY.

Applications are invited for the following appointment:—
ARCHITECTURAL ASSISTANT, Grade V, £530-£570.

Applicants must be Associates of the R.I.B.A., and have had good general architectural experience. Experience in settling contractors' final accounts will be an advantage.

Housing accommodation: The Corporation will be prepared to assist in the provision of housing accommodation in cases of difficulty.

Applications, on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Halloran, B.Sc., M.I.C.E., Howard Street, North Shields, together with copies of not more than three recent testimonials, should be addressed to the Borough Surveyor, to arrive by 10 a.m. on the 28th day of May, 1949.

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

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

Dated this 6th day of May, 1949.
(Sgd.) **FRED. G. EGNER,**
Town Clerk.

14, Northumberland Square, North Shields. 923

KING'S COLLEGE HOSPITAL, DENMARK HILL, LONDON, S.E.5.

Applications are invited for the position of **ARCHITECTURAL DRAUGHTSMAN** in the Architect's Department of this Hospital. Candidates should be capable of carrying out surveys quickly and accurately. Experience of Hospital work would be an advantage.

The salary will be within the range of £355 to £400 a year, according to experience, plus London weighting up to £30 a year, according to age. The appointment will be subject to the National Health Service (Superannuation) Regulations, 1947/3, and the successful applicant will be required to pass a medical examination.

Applications, stating age, education, qualifications, and full details of experience, and enclosing copies of two testimonials, to be sent to the undersigned not later than 3rd June, 1949.

S. W. BARNES,
House Governor and Secretary.
938

**BOROUGH OF FOLKESTONE.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.**

ARCHITECTURAL ASSISTANT (TEMPORARY)

£500 p.a.
Applications are invited for the appointment of an Architectural Assistant at a salary of £500 per annum.

The appointment is temporary and subject to one month's notice from either side. The duration of the appointment will be approximately 2 years. Applicant to state whether to his knowledge he is related to any member of this local authority or to the holder of a senior office under the authority.

Applicants should be Registered Architects, qualified by examination, quick and accurate draughtsmen, and be experienced in the preparation of Housing plans and general Architectural work.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be addressed to the Borough Engineer, Municipal Offices, West Terrace, Folkestone, and delivered not later than Saturday, 4th June, 1949.

C. F. NICHOLSON,
Town Clerk.
Town Clerk's Office, Folkestone. 987

**BRECONSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.**

Applications are invited for the following established posts (Male or Female) in the County Architect's Department:—

(a) **TWO ASSISTANT ARCHITECTS, Grade V,** £520-£570 per annum.

(b) **ONE ASSISTANT ARCHITECT, Grade IV,** £480-£535 per annum.

(c) **ONE ARCHITECTURAL ASSISTANT, Grade III,** £450-£495 per annum.

(d) **TWO ARCHITECTURAL ASSISTANTS, Grade II,** £420-£465 per annum.

(e) **ONE ARCHITECTURAL ASSISTANT, Grade I,** £390-£435 per annum.

(f) **ONE QUANTITY SURVEYOR, Grade VII,** £535-£710 per annum.

(g) **ONE LAND SURVEYOR, Grade III,** £450-£495 per annum.

Applicants for appointment under (a) above must be registered Architects.

The appointments will be subject to (i) the National Scheme of Conditions of Service, (ii) the provisions of the Local Government Superannuation Act, 1937, (iii) the passing of a satisfactory medical examination, and (iv) one month's written notice on either side.

Canvassing, directly or indirectly, will definitely disqualify the candidate for the appointment.

Applications must be made on a form to be obtained from the County Architect, Mr. H. C. W. Strickland, F.R.I.B.A., Watton Offices, Brecon, South Wales, and must be received by the undersigned not later than 30th May, 1949.

C. M. S. WELLS,
Clerk of the County Council.
County Hall, Brecon. 931

**ROYAL BURGH OF INVERNESS.
BURGH ARCHITECTS' AND TOWN PLANNING DEPARTMENT.**

APPOINTMENT OF CHIEF PLANNING OFFICER.

The above Council invite applications for the appointment of a Chief Planning Assistant, at a salary in accordance with Grade V of the J.I.C. Scale, £520-£570, with placing on the scale according to qualifications and experience.

Applicants should be Associate Members of the Town Planning Institute, and practical experience in the preparation of Planning Schemes for Urban Areas is desirable.

The appointment is superannuable, and will be terminable by two months' notice in writing on either side, and the successful candidate will be required to pass a medical examination.

Applications, stating age, sex, whether married or single, qualifications, present position and salary, previous positions, and details of experience, together with the names of two persons to whom reference can be made, should be sent to J. Blackburn, Burgh Architect, 11, High Street, Inverness, and endorsed "Chief Planning Assistant," within two weeks of the appearance of this advertisement.

JAMES CAMERON,
Town Clerk.
Town House, Inverness. 929

COUNTY OF ESSEX.

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for a **SECTIONAL ASSISTANT ARCHITECT** in the Office of the Borough Engineer of Ilford.

Applicants should be Members of the Royal Institute of British Architects, and have had considerable experience in the planning, designing, construction and supervision of School buildings and have had administrative experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade VII, £635-£825 to £710, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 944

ILFORD COMMITTEE FOR EDUCATION.

The Essex County Council invite applications for a **SECTIONAL ASSISTANT ARCHITECT** in the Office of the Borough Engineer of Ilford.

Applicants should be Members of the Royal Institute of British Architects, and have had considerable experience in the planning, designing, construction and supervision of School buildings and have had administrative experience.

The scale of salary will be in accordance with the National Joint Council, A.P.T. Division, Grade VII, £635-£825 to £710, plus the appropriate London area allowance. There will also be paid such travelling and subsistence allowances as may from time to time be determined by the Council.

Applications should be made on a form to be obtained from, and returned to, the Borough Education Officer, Education Offices, Town Hall, Ilford, together with copies of not more than three recent testimonials, within 14 days of the appearance of this advertisement. 944

HARLOW DEVELOPMENT CORPORATION.

Applications are invited for the following posts:—

(a) **TWO ASSISTANT ARCHITECTS,** with Town Planning qualifications or training. Salary £650-£725 per annum (Grade IV(b)). To work on the development plan for the complete town and the detailed planning of the Town Centre, Neighbourhoods and Industrial Estate.

(b) **TWO ASSISTANT ARCHITECTS,** Salary £650-£725 per annum (Grade IV(b)).

(c) **ONE ASSISTANT ARCHITECT,** Salary £550-£625 per annum (Grade IV(a)).

(d) **ONE JUNIOR ASSISTANT ARCHITECT,** Salary £450-£525 per annum (Grade V(b)).

(e) **TWO JUNIOR ASSISTANT ARCHITECTS,** Salary £400-£475 per annum (Grade V(a)).

To work on the design and erection of houses, flats, shops and other buildings.

(f) **ONE MODEL MAKER,** Salary £450-£525 per annum (Grade V(b)). To be in charge of a small model making Section.

The persons appointed will work under the direction of the Architect/Planner, Frederick Gibberd, F.R.I.B.A., A.M.T.P.I.

Applicants for appointments (a), (b) and (c) should be Associate Members of the R.I.B.A.

Applicants for appointments (d) and (e) should have attained R.I.B.A. Intermediate examination standard.

All appointments will be subject to the Corporation's Staff Rules and Conditions of Service (which are similar to the National Joint Council's Scheme of Conditions of Service for Local Authorities' Administrative, Professional, Technical and Clerical Services), and will in particular involve a contribution to a Superannuation Fund, either in accordance with the Local Government Superannuation Act, 1937, or an Assurance Scheme.

The Corporation would, in suitable circumstances, consider the payment of a temporary subsistence allowance for a limited period to successful applicants, whose homes are not within reasonable distance of the Harlow New Town Area, and would also use its best endeavours to assist them to obtain suitable living accommodation in the area.

Applications, stating age, qualifications, present position and salary, together with the names of three referees, should be addressed to the General Manager, Harlow Development Corporation, Terlings, Gilston, Harlow, Essex, to reach him not later than 30th May, 1949.

Canvassing, directly or indirectly, will disqualify.

W. ERIC ADAMS,
General Manager.
10th May, 1949. 988

CORPORATION OF THE CITY OF EDINBURGH.

TOWN PLANNING DEPARTMENT.

Applications are invited for the following permanent appointments:—

(a) **ONE SENIOR AREA PLANNING OFFICER** (£800-£900).

(b) **TWO PLANNING ASSISTANTS** (£520-£610 (A.P.T. V and Va)).

(c) **TWO DRAUGHTSMEN** (£395-£465 (A.P.T. I and II)).

The necessary qualifications and experience of candidates should be as follows:—

Appointment (a): Corporate Membership of the Town Planning Institute is essential, together with an additional qualification in Architecture, Engineering or Surveying. Candidates must have had considerable experience in a senior position in a Planning Office, covering the preparation of Development Plans and Control of Development.

Appointments (b): Corporate Membership of the Town Planning Institute is desirable. Alternatively candidates should have passed the Final Examination of the Town Planning Institute or should hold the Diploma in Town Planning of a school recognized by the Institute. Experience in a Town Planning Office is essential, and an additional qualification in either Architecture, Engineering or Surveying is required.

Appointments (c): Training and experience in Architecture is preferable at least up to Intermediate standard. Experience in a Planning office would be an advantage.

Applications, stating age, present and previous appointments and present salary, qualifications and experience, should be forwarded to the Town Planning Officer, City Chambers, Edinburgh, not later than Monday, 30th May, 1949. Successful applicants will require to pass a medical examination and will be subject to the Corporation's superannuation scheme.

J. STORRAR,
Town Clerk.
City Chambers, Edinburgh, 1. 921

LEEDS COLLEGE OF ART.

SCHOOL OF ARCHITECTURE.

Head: **W. A. EDEN, M.A., A.R.I.B.A.**

Applications are invited for the post of **SENIOR LECTURER IN BUILDING SCIENCE.**

Applicants should hold an academic qualification in engineering, architecture or natural science, and should have experience in the application of scientific methods to the investigation of problems of practical building.

Salaries will be according to the Burnham Scale (1948) for senior assistants, viz., £700-£825-£900, with additions for degree or equivalent and approved training.

Application forms and further particulars may be obtained by sending a stamped addressed foolscap envelope to the Director of Education, Education Offices, Leeds, 1. 983

SOMERSET COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—

- (a) ONE ARCHITECTURAL ASSISTANT. Salary Grade VI (£595-£609).
(b) THREE ARCHITECTURAL ASSISTANTS. Salary Grade IV (£480-£525).
(c) ONE ARCHITECTURAL ASSISTANT. Salary Grade I (£230-£435).

Applicants for (a) must be Associate Members of the Royal Institute of British Architects, with good general Architectural experience.

The appointments will be subject to the Council's Conditions of Service in force from time to time and to the provision of the Local Government Superannuation Act, 1937, and any amendments thereof. Selected candidates will be required to pass a medical examination. Applications, giving full details of age, qualifications and experience, should be forwarded, together with copies of three recent testimonials, to reach the undersigned by Saturday, 28th May, 1949.

Candidates should state whether or not they are related to any member and/or senior official of the Council. Canvassing will be a disqualification.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park Street, Taunton. 924
3rd May, 1949.

CITY BOROUGH OF HUDDERSFIELD.

BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—

- (a) ASSISTANT ARCHITECTS. Grade VI (£595-£650).
(b) ASSISTANT QUANTITY SURVEYOR. Grade V (£520-£570).
(c) ASSISTANT QUANTITY SURVEYOR. Grade IV (£480-£525).
(d) TOWN PLANNING ASSISTANT. Grade II (£420-£465).

For appointment (a) candidates should be suitably qualified and possess a sound experience in the design, construction and maintenance of all types of buildings carried out by a Local Authority, and be capable of carrying contracts through to completion; for appointments (b) and (c) candidates should have had considerable experience in the preparation of Bills of Quantities, Specifications, and Estimates, and the settlement of Final Accounts; for appointment (d) interim development experience in a Planning Office is necessary.

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, expiring at the end of a calendar month, to the provisions of the Local Government Superannuation Act, 1937, and the successful applicants will be required to pass a medical examination.

Applications, suitably endorsed, giving age, qualifications, past and present appointments, and full details of experience, together with the names of three referees, must reach the Borough Architect, High Street Buildings, Huddersfield, not later than the 31st May, 1949.

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

HARRY BANN,
Town Clerk.

Town Hall, Huddersfield. 927

COUNTY COUNCIL OF DURHAM.

COUNTY PLANNING DEPARTMENT.
Applications are invited for the following permanent appointments in the County Planning Department:—

- (a) TWO AREA PLANNING OFFICERS. Grade VIII, A.P.T., of the National Scheme of Conditions of Service (£685-£760).
(b) THREE PLANNING ASSISTANTS. Grade VI, A.P.T. (£595-£660).
(c) ONE PLANNING ASSISTANT. Grade III, A.P.T. (£450-£495).

Applicants for:—
(a) Must be fully qualified by examination and experience. The duties will include control of interim development and preparation of and assistance with Development Plans.

(b) Must be qualified Architect-Planners. Main duties will be assistance in preparation of Development and Town Plans.

(c) Should be qualified to undertake survey and research work in connection with Development Plans.

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

Canvassing, either directly or indirectly, will disqualify. Applicants must disclose in writing whether to their knowledge they are related to any member or to the holder of any senior office under the Council.

Applications, stating age, married or single, and giving full particulars of qualifications and experience, and the names of three persons to whom reference may be made, must be delivered to the County Planning Office, 10, Church Street, Durham, by 25th May, 1949.

J. K. HOPE,
Clerk of the County Council.

Shire Hall, Durham. 925
3rd May, 1949.

DEVON COUNTY COUNCIL.

Applications are invited for the following appointments on the permanent establishment of the County Architect's Department, at consolidated salaries, in accordance with the grades of, and subject to the scheme of conditions of service of the National Joint Council for Local Authorities' Administrative, Professional and Technical Services. Applications from suitably qualified disabled persons will be considered.

(a) ONE ASSISTANT ARCHITECT. Grade A.P.T. VII. Commencing salary £635 per annum, rising by three annual increments of £25 to £710 per annum.

(b) THREE ASSISTANT ARCHITECTS. Grade A.P.T. V. Commencing salary £520 per annum, rising by three annual increments (£15×£15×£20) to £570 per annum.

(c) ONE ASSISTANT ARCHITECT. Grade A.P.T. IV. Commencing salary £480 per annum, rising by three annual increments (£15×£15×£15) to £525 per annum.

(d) ONE ASSISTANT ARCHITECT. Grade A.P.T. III. Commencing salary £450 per annum, rising by three annual increments (£15×£15×£15) to £495 per annum.

(e) ONE ASSISTANT ESTIMATOR AND SURVEYOR. Grade A.P.T. III. Commencing salary £450 per annum, rising to £495 per annum as for (d).

Candidates for (a) and (b) must be Associates of the R.I.B.A., and possess a sound experience in the design and maintenance of all types of buildings carried out by a large Local Authority; they must be fully conversant with the Building Regulations of the Education Act, 1944, and the Regulations for Police Buildings and Fire Stations; and possess organizing ability and experience in the management of building contracts. For (c) and (d) candidates must have a good training in architecture, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A., and have had experience with a Local Authority.

Candidates for (e) should have passed at least the Intermediate examination of the Royal Institution of Chartered Surveyors (Quantities Sub-Division), and be capable of undertaking preparation of detailed estimates, taking off quantities from drawings for variations; preparation and settlement of final accounts, and the general technical duties in the Estimating Section of the Department.

Applications, stating age, qualifications and experience, accompanied by not more than three recent testimonials, should be sent to the County Architect, 97, Heavitree Road, Exeter, not later than Friday the 27th May, 1949.

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

Canvassing, directly or indirectly, will disqualify.

H. A. DAVIS,
Clerk of the County Council.

The Castle, Exeter. 829
NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for appointment to the Staff of the Department of Architecture as SENIOR STUDIO MASTER in Architectural Design and Construction.

Applicants must have passed the Final examination for Associateship R.I.B.A., and preferably have completed a full-time course of study in a recognized School.

Senior members of the staff are expected to have had some considerable teaching experience or professional experience in Town Planning or some other specialist branch of study, on which they would be required to give regular lectures. The salary will be £700×25-£800, plus London allowance, together with other allowances in accordance with the Burnham Award for Senior Assistants.

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

R. H. CURRELL,
Clerk.

NORTHERN POLYTECHNIC, HOLLOWAY, N.7.

The Governing Body invite immediate applications for the following appointments to the full-time staff of the Department of Architecture, Surveying and Building:—

(a) STUDIO MASTER IN ARCHITECTURAL DESIGN.

Applicants must have passed the Final examination for Associateship R.I.B.A., and preferably have completed a full-time course of study in a recognized School.

(b) TEACHER OF BUILDING SUBJECTS, including Building Construction, Geometry, etc. The Teacher appointed will be primarily required to assist in the preparation of Students for the Examinations of the Royal Institution of Chartered Surveyors and the Institute of Builders.

The salaries in respect of the above appointments will be in accordance with the Burnham (Technical) Scale. Members of the staff of the Department are afforded reasonable opportunities for private practice should they so desire.

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

R. H. CURRELL,
Clerk.

IMPERIAL WAR GRAVES COMMISSION.

There are vacancies in the Quantity Surveying Branch in London for QUANTITY SURVEYORS with good training and experience as follows:—

(a) One post. Salary £750-£1,000 per annum, plus extra duty allowance of 3 per cent. of salary, for 454-hour week. Applicants must be over 35 years of age, and have had pre-war experience in taking off quantities without supervision for buildings of a high architectural standard. Must also be capable of taking complete charge of contracts from their commencement to completion and supervising staff.

(b) Four posts. Salary £475-£750 per annum, plus extra duty allowance of 3 per cent. of salary, for 454-hour week. Applicants must have had experience in taking off on good permanent buildings. Pre-war experience an advantage.

Applicants should be Fellows or Associates of Royal Institution of Chartered Surveyors, and have passed a recognized Final examination, with Quantities as typical subject. In both posts knowledge of stonework an advantage.

Starting pay will be assessed according to age, qualifications and experience. Although the above are not established posts, the duration will be not less than five years.

Applications should be addressed to Appointment Officer, Imperial War Graves Commission, Woodburn House, Woodburn Green, High Wycombe, Bucks. 972

MANCHESTER REGIONAL HOSPITAL BOARD.

SENIOR LAND SURVEYOR.

Applications are invited for the appointment of Senior Land Surveyor on the Board's Headquarters staff. Salary grade A.P.T., VIII, £685×£25-£760 per annum. Applicants must be Associates of the Royal Institution of Chartered Surveyors, with wide experience in rating and valuation, preparation of surveys of lands and properties. Preference will be given to candidates with local or public authority experience. The appointment is subject to the National Health Service Superannuation Scheme. Applications, stating age, qualifications and experience, together with the names and addresses of three referees, should be received by the undersigned not later than the 28th May, 1949.

J. GIBBON,
Secretary of the Board.

1, North Parade, Parsonage Gardens, Manchester, 3. 946

COUNTY BOROUGH OF GREAT YARMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF FIVE SENIOR ASSISTANT ARCHITECTS.

Applications are invited for the above appointments, at a salary in accordance with A.P.T. Grade VI (£595-£660 per annum) of the National Conditions of Service.

Applicants should be Associates of the Royal Institution of British Architects, should have had good general experience of Municipal Architectural work and, for some of the appointments, should have had some experience in modern school construction.

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

Applications, stating age, qualifications and experience, together with the names of three persons to whom reference can be made, should be enclosed in an envelope endorsed "Senior Assistant Architect," and must reach the undersigned not later than Monday, the 6th June. Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member, or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and, if appointed, liable to dismissal without notice.

FARRA CONWAY,
Town Clerk.

Town Hall, Great Yarmouth. 947
6th May, 1949.

COUNTY BOROUGH OF GREAT YARMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT.

Applications are invited for the above appointment, at a salary in accordance with A.P.T. Grade II (£420-£465 per annum) of the National Conditions of Service.

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

Applications, stating age, qualifications, experience, present position and salary and previous appointments, together with the names of two persons to whom reference can be made, and endorsed "Junior Assistant Architect," must reach the undersigned not later than the 6th June, 1949.

Canvassing will be deemed a disqualification, and candidates must disclose in writing any relationship to any member or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and, if appointed, liable to dismissal without notice.

FARRA CONWAY,
Town Clerk.

Town Hall, Great Yarmouth. 948
6th May, 1949.

COUNTY BOROUGH OF GREAT YARMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF JUNIOR ASSISTANT ARCHITECT.

COUNTY BOROUGH OF GATESHEAD.

Applications are invited for FOUR ASSISTANT ARCHITECTS, on Grade IV of the A.P.T. Division of the National Scale of Salaries (£480-£525 p.a.).

Candidates must be Registered Architects and be Corporate Members of the Royal Institute of British Architects. They should have good experience in the design and construction of public buildings, schools and/or Municipal housing schemes.

The appointments will be subject to the Local Government Superannuation Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass medical examinations. The question of housing accommodation, if found necessary, will be discussed at the interview.

Applications to be made on forms obtainable from the Chief Architect should be returned, together with copies of three recent testimonials, to H. J. Cook, B.L.B.A., M.I. Struct.E., Chief Architect, Municipal Buildings, Swinburne Street, Gateshead, 3, not later than the 6th June, 1949.

J. W. PORTER, Town Clerk.

Town Hall, Gateshead, 3.

10th May, 1949.

969

Amended.

IRLAM URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of Architectural Assistant in the Engineer and Surveyor's Department. Salary Grade IV-V, A.P.T. Division, National Joint Council scale (£480 to £570). The commencing salary will be within the range of Grade IV, according to qualifications and experience. The appointment will be subject to:-

(a) One month's notice in writing.

(b) Local Government Superannuation Act, 1937.

(c) Passing a medical examination.

Preference will be given to candidates holding recognized qualifications.

Housing accommodation will be provided if necessary.

Applications, stating age, qualifications and experience, and accompanied by copy of one recent testimonial and the names of two referees, should be endorsed "Architectural Assistant," and be received by the undersigned not later than 10 a.m. on Monday, 30th May, 1949.

EDWIN JONES, Clerk of the Council.

Council Offices, Irlam, near Manchester. 9th May, 1949.

945

NORFOLK COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the permanent appointment of ASSISTANT ARCHITECT, at a salary in accordance with National Grade VI (£256-£266 p.a.). Candidates must be registered architects, and must hold a recognized architectural qualification; they must have had a good general architectural experience, and have a sound knowledge of design, construction and specifications. The appointment will be subject to the Local Government Officers' Superannuation Acts, to a satisfactory medical certificate, and to one month's notice on either side. National Scheme of Conditions of Service will apply.

Applications must state clearly age, qualifications, full details of training, experience, and previous appointments, with dates, salaries, and designations; the names and addresses of three persons to whom reference may be made must be stated. Applications must be delivered to C. H. Thurston, L.R.I.B.A., F.R.I.C.S., County Architect, 25, Thorpe Road, Norwich, within 10 days from the appearance of this advertisement.

H. OSWALD BROWN, Clerk of the Council.

County Offices, Thorpe Road, Norwich. 9th May, 1949.

966

METROPOLITAN BOROUGH OF LEWISHAM. APPOINTMENT OF BUILDER'S CLERK.

Applications are invited for the appointment of Builder's Clerk in the Borough Architect's Department. Salary scale A.P.T. Division, Grade II (£420, rising to £465 per annum, plus London "weighting," varying between £10 and £30 per annum, according to age).

The commencing salary of the successful candidate will be fixed in the grade, according to his qualifications and experience.

The appointment will be subject to the Rules and Regulations of the Council from time to time in force relating to officers; to the National Scheme of Conditions of Service; to the provisions of the Local Government Superannuation Act, 1937; to the satisfactory passing of a medical examination by the Council's Medical Officer of Health, and to termination by one month's notice on either side.

Candidates for the appointment must have had experience with a Direct Labour Organization of a Local Authority engaged in new building and maintenance works, and be thoroughly conversant with the wages and conditions of service of work people, including the formulation and application of incentive payment schemes.

Forms of application may be obtained from me and should be returned, accompanied by copies of not more than three recent testimonials, addressed to me in an envelope endorsed "Builder's Clerk," so as to be received not later than Saturday, the 4th June, 1949.

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

ALAN MILNER SMITH, Town Clerk.

Lewisham Town Hall, Catford, S.E.5. 9th May, 1949.

964

GLENKOTHS DEVELOPMENT CORPORATION invites applications from suitably qualified persons (under 45 years of age) for the following appointments:-

(1) DEPUTY CHIEF ARCHITECT AND PLANNING OFFICER. Salary £1,000-£250-£1,150, the commencing salary to be determined according to qualifications and experience.

(2) CHIEF QUANTITY SURVEYOR. Salary £1,000 per annum.

(3) (a) ASSISTANT CHIEF PLANNER; (b) ASSISTANT CHIEF ARCHITECT (Housing); (c) ASSISTANT CHIEF ARCHITECT (Other Buildings). Salary £350-£250-£1,000 per annum.

(4) (a) SENIOR PLANNER; (b) SENIOR ARCHITECT (Housing); (c) SENIOR ARCHITECT (Other Buildings); (d) SENIOR ENGINEER. Salary £750-£50-£900 per annum.

(5) (a) PLANNER; (b) ARCHITECT (Housing); (c) ARCHITECT (Other Buildings); (d) TWO ENGINEERS. Salary £540-£25 and £20-£760 per annum.

(6) FIVE JUNIOR ASSISTANTS. Salary £300-£220 and £10-£490 per annum.

Applicants for (1) should be Corporate Members of the R.I.B.A. and T.P.I., and should have had considerable experience in the design of large layouts and the design and construction of all types of buildings, together with a sound knowledge of contractual procedure, good administrative experience, and the ability to organize and supervise technical staff.

Applicants for (2) should be Corporate Members of the R.I.C.S., and should have considerable experience in Estimating, preparing Bills of Quantities, and settling Final Accounts of large contracts.

Applicants for 3(a), 4(a) and 5(a) should be Corporate Members of the T.P.I. and also have an appropriate Architectural or Engineering qualification; they should have a sound knowledge of town planning, with particular reference to the problems of new town development.

Applicants for 3(b), 4(b), 5(b) and 3(c), 4(c) and 5(c) should be Corporate Members of the R.I.B.A., and an additional Town Planning qualification will be an advantage. Architects (Housing) should have had experience of the design and construction of large housing layouts, and Architects (Other Buildings) of all types of public buildings appropriate to New Town development.

Applicants for 4(d) and 5(d) should be Corporate Members of the I.C.E. or I.Mun.E. For post 4(d) good general experience suitable to New Town development is expected, and for 5(d) good experience in the design and construction of roads and surveying is necessary.

Applicants for (5) will be posted to the following sections:-

Planning (one), Architects (two), and Engineers (two).

They should have passed at least the Intermediate examination of the appropriate professional body.

The posts will be superannuable under the Local Government (Scotland) Act, 1937, and successful candidates will be required to pass a medical examination.

The Corporation will give assistance in securing housing accommodation. Canvassing, directly or indirectly, of members of the Corporation will constitute an absolute disqualification.

Applications, giving full particulars of the candidate's age, qualifications and experience, together with copies of not more than three recent testimonials, must reach the undersigned not later than 4th June, 1949.

INTERIM SECRETARY, Glenkoths Development Corporation.

County Buildings, Cupar. 11th May, 1949.

1002

GOVERNMENT OF NORTHERN IRELAND.

MINISTRY OF FINANCE. ASSISTANT ARCHITECTS AND ARCHITECTURAL ASSISTANTS.

Applications are invited for posts of Assistant Architect and Architectural Assistant in the Works Division of the Ministry of Finance. Appointments will be non-pensionable, but, as far as can be foreseen, will last for several years. Applicants will be eligible for consideration for appointment to established posts as vacancies arise. THE WORKS PROGRAMME EMBRACES DESIGN AND EXECUTION OF FACTORIES, HOUSING, SCHOOLS AND PUBLIC BUILDINGS.

Remuneration: The ranges of salary attaching to the posts are:

Assistant Architect, Grade "B." £500-£750.

Assistant Architect, Grade "C." £400-£600.

Architectural Assistant, Grade "D." £250-£500.

Entry point will be determined according to the qualifications and experience of the successful candidates.

Qualifications: Candidates for Grades "B" and "C" must be Registered Architects, by examination. In addition, candidates for Grade "B" posts must have had good general experience in an Architect's office, including the writing of Specifications. Candidates for Grade "D" posts should have had approved experience in an Architect's Drawing Office.

Preference will be given to ex-Service candidates of the 1914-1918 or 1939-45 war, provided that such candidates can or within a reasonable time will be able to fill the posts efficiently.

Applications, giving date of birth and full details of training and qualifications, should be sent immediately to the Director of Establishments, Ministry of Finance, Stormont. -/5/30/49.

975

CORPORATION OF GLASGOW. HOUSING DEPARTMENT.

Applications are invited for the undernoted appointments:-

ASSISTANT ARCHITECTS, Grade I. ASSISTANT QUANTITY SURVEYORS, Grade I.

Salary scale A.P.T. VI, £595-£660. ASSISTANT ARCHITECTS, Grade II. ASSISTANT QUANTITY SURVEYORS, Grade II.

Salary scales A.P.T. I, III and V, £390-£435, £450-£495, £520-£570.

Applicants should have passed the Final examination of the appropriate professional body or should hold an equivalent qualification.

In the case of Grade II appointments, the commencing salary will be fixed according to age and experience.

The appointments will be to the permanent establishment of the Department, and are subject to the provisions of the Corporation's Superannuation Scheme. Successful applicants will require to pass a medical examination on either side by one month's notice in writing.

Applications, indicating the position applied for, and stating age, particulars of training, experience and qualifications, should be addressed to the undersigned, and should be received within 14 days of the publication of this advertisement.

A. G. JURY, Director of Housing.

Housing Department, 20, Trongate, Glasgow, C.1. 9th May, 1949.

939

LONDON COUNTY COUNCIL.

QUANTITY SURVEYORS.

Vacancies exist for Quantity Surveyors in the Housing and Valuation Department, for work in connection with the development of cottage estates and the construction of multi-story dwellings, at salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:-

(a) Measurement of work in construction of houses, roads and sewers, preparation of interim and final bills; measurement and adjustment of sub-contracts; preparation of cost statistics, estimates, etc.

(b) Management of housing contracts of considerable value; interim valuations for payments; measurement of variations and settlement of final accounts.

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.W.1 (a stamped addressed foolscap envelope required), quoting Q.S.1.

Canvassing disqualifies. (2143) 796

CITY OF NOTTINGHAM.

CITY ENGINEER'S DEPARTMENT.

Applications are invited for the following positions:-

(a) TOWN PLANNING ASSISTANT. Grade A.P.T. VI (£595-£660-£20-£250).

(b) TOWN PLANNING ASSISTANT. Grade A.P.T. IV (£480-£515-£25).

(c) TOWN PLANNING DRAUGHTSMAN. Grade A.P.T. I (£390-£435-£25).

Applicants for positions (a) and (b) must have had good experience in the Town Planning Office of a Local Authority.

Applicants for position (c) must be capable draughtsmen, with good experience in the office of an architect, surveyor, municipal engineer, or town planning officer.

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

Applications are to be on forms to be obtained from R. M. Finch, O.B.E., M.I.C.E., City Engineer and Surveyor, Guildhall, Nottingham, to whom they should be returned not later than 3rd June, 1949.

J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham. 9th May, 1949.

899

COUNTY BOROUGH OF SUNDERLAND.

APPOINTMENT OF BOROUGH ARCHITECT.

The Council of the County Borough of Sunderland invite applications from duly qualified persons for the position of Borough Architect, at a salary of £1,500 per annum, advancing by annual increments of £50 to £1,700 per annum.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and to the passing of a medical examination by the successful candidate. He will also be required to devote the whole of his time to the duties of the office, and the appointment will be determinable by three months' notice in writing.

Applications (upon forms provided for the purpose, which, together with particulars of duties and conditions of appointment, may be obtained from the undersigned), should be endorsed on envelope "Borough Architect," addressed to me and delivered at my office at the Town Hall, Sunderland, not later than first post on the 18th day of June, 1949.

Canvassing, either directly or indirectly, until after the first selection of candidates by the Committee, is strictly prohibited, and will be deemed a disqualification.

G. S. McINTIRE, Town Clerk.

Town Hall, Sunderland. 9th May, 1949.

960

ESSEX EDUCATION COMMITTEE.
SOUTH-EAST ESSEX TECHNICAL COLLEGE
AND SCHOOL OF ART.

LONGBRIDGE ROAD, DAGENHAM.
Full or part-time LECTURERS IN ARCHITECTURE and SURVEYING are required for courses leading to the Intermediate examinations of the R.I.B.A. and R.I.C.S.

Applicants must have practical knowledge of Building Construction and experience in one or more of the following:—
Elementary Surveying and Levelling.

Quantities.
Valuations.
Draughtsmanship.
Architectural History.

Teaching experience is not essential.
Salary for full-time post: Burnham Technical Scale (£300 × £15 to £550), plus London allowance (£36 to £48) and allowances for qualifications and training. Commencing salary determined by previous teaching and professional experience.

Further particulars of the duties, and of the salaries for part-time Lecturers, and forms of application, may be obtained from the Clerk of the Governors at the College. Application forms should be returned to him within 14 days of the appearance of this advertisement.

In addition applications are invited for posts as part-time DAY LECTURERS from persons qualified to teach the following subjects:—
Theory of Structures and Constructional Design for Final R.I.B.A. examinations; Sanitation, Heating and Ventilation, Maintenance and Repairs, Urban Estate Management and Records, Valuation of Buildings, for Inter. R.I.C.S. examinations.

Apply, as above, as soon as possible. 942

BOROUGH OF SLOUGH.
Applications are invited for the permanent appointment of an ASSISTANT ARCHITECT, within Grade A.P.T., III, of the National Scales, at a consolidated commencing salary of £450 p.a., rising, on satisfactory service, by annual increments of £15 to a maximum of £495 p.a.

Applicants must give details of experience in housing, Municipal building design and general building construction, and state age, marital state, qualifications, technical training, present and previous appointments, with dates, together with the names of two architects to whom reference can be made.

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

Applications, in sealed envelopes, endorsed "Assistant Architect, Grade III," must reach the undersigned not later than noon on Monday, 30th May, 1949.

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

Canvassing, directly or indirectly, will disqualify.

NORMAN T. BERRY,
Town Clerk.
Town Hall, Slough.
13th May, 1949. 941

KENT COUNTY COUNCIL.
Applications are invited from Members of the Royal Institute of British Architects for the following appointments in the office of the County Architect, which offer interesting and varied work upon the design and erection of Fire, Health, Police and School Buildings:—

ONE SENIOR ASSISTANT ARCHITECT (A.P.T., Grade VII, £535-£710), to take charge of the work of a section of the office carrying out a number of large schemes. Candidates should have considerable experience in the design and supervision of such schemes.

ONE SENIOR ASSISTANT ARCHITECT (A.P.T., Grade VI, £595-£660), capable of taking charge of schemes. Candidates should have good

experience in the design and supervision of both large and small building schemes, including housing.

FIVE ASSISTANT ARCHITECTS (A.P.T., Grade V(a), £550-£610), are also required with experience in the preparation of sketch schemes and working drawings for modern buildings.

Previous experience with a Local Authority is not essential for the above appointments.

The posts are superannuable, and 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 date on which this advertisement appears.

W. L. PLATTS,
Clerk of the County Council.
County Hall, Maidstone. 919

METROPOLITAN BOROUGH OF HACKNEY.
BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ARCHITECTURAL SECTION.
Applications are invited for the under-mentioned permanent appointments, at salaries in accordance with the scales indicated. In each case the commencing salary may be fixed at a point above the minimum of the Grade specified, according to the qualifications and experience of the successful candidate:—

ARCHITECTURAL ASSISTANT.
One appointment, Grades A.P.T., III-IV (£450 p.a.-£525 p.a., plus London weighting allowance). Candidates must have had a good architectural training, and must have passed the R.I.B.A. Intermediate or equivalent examination.

JUNIOR ARCHITECTURAL ASSISTANT.
One appointment, Grades A.P.T., II-III (£420 p.a.-£495 p.a., plus London weighting allowance). Candidates must have had a good architectural training, and preference will be given to those who have passed the R.I.B.A. Intermediate or equivalent examination.

Conditions of appointments and application forms may be obtained from the undersigned upon receipt of a stamped addressed foolscap envelope. Completed application forms, endorsed with the designation and Grade of the post applied for, must be returned not later than first post on the 31st May, 1949. The Council is unable to provide any housing accommodation.

DUDLEY SORRELL,
Town Clerk.
Town Hall, Hackney, E.8.
5th May, 1949. 993

Tenders for Contracts

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

BOROUGH OF DAGENHAM.
TENDERS FOR WALL TILING.

Tenders are invited for supplying and laying internal and external wall tiling to a new Public Convenience. Specification and forms of tender from the Borough Engineer and Surveyor. Closing date 4th June, 1949. The Council do not bind themselves to accept the lowest or any tender.

KEITH LAUDER,
Town Clerk.
Civic Centre, Dagenham. 968

Architectural Appointments Vacant

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

SEELY & PAGET, F./L.R.I.B.A., require fully qualified ASSISTANT; must be experienced working drawings and specifications, with sound knowledge of all normal methods of construction; licensed work now in hand includes many important Ecclesiastical commissions. Apply by letter, giving usual details, to 41, Cloth Fair, E.C.1. 668

ARCHITECTURAL ASSISTANT (single) required for country town office; office trained; good draughtsman; car owner/driver; experience in outside supervision and specifications; salary £400 to £500 per annum. Details to Box 827.

ARCHITECT'S ASSISTANT required immediately, Leeds area; must be experienced in working drawings, details, levelling, etc. Write, stating age, experience and salary required, to Box 826.

ARCHITECTURAL DRAUGHTSMAN required for large Industrial and Commercial Company in London; should be able to make site surveys, prepare working and detail drawings and specifications; please state age, experience, and salary required. Box 777.

SENIOR ARCHITECTURAL ASSISTANT required in progressing Private Practice; good salary and excellent prospects for suitable applicant. Full details of age, education, training and experience, to Ernest S. England (Harold Sanger, A.R.I.B.A., and Ronald Rothwell, Dip.Arch., A.R.I.B.A.), Chartered Architects, 12, Clegg Street, Oldham. 760

ARCHITECT'S ASSISTANT required for Construction Department, large multiple firm, Birmingham office; good progressive position, with superannuation and five-day week, offered to keen, energetic, and capable man; state age, experience, and salary required. Box 787.

ARCHITECTURAL ASSISTANT, above R.I.B.A. Inter. standard; interested in contemporary design. Apply Box 769.

ARCHITECTURAL DRAUGHTSMAN required in South Essex for preparing Schemes and Working Drawings for industrial buildings. Applications, stating age and full particulars of qualifications and experience, are invited from first-class draughtsman, with a sound knowledge of construction, and not less than 5 years' office experience, subject to some reduction for service in H.M. Forces. Box 804.

ARCHITECTURAL ASSISTANT required in Norwich office; must be capable and fully conversant with present conditions in a provincial practice. Details of experience and salary required to Box 808.

WILL any ASSISTANT, preferring a small private office in an East Midland country town, to a Council Office, please apply to Box 783.

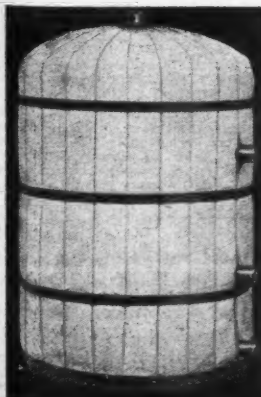
ARCHITECTURAL ASSISTANT or **DRAUGHTSMAN** required for interesting and varied country practice in Dorset. Apply, stating experience and salary required, to L. Magnus Austin, F.R.I.B.A., M.T.P.I., Bowling Alley Walk, Dorchester, Dorset. 822

ARCHITECT'S ASSISTANT required for domestic and industrial practice; neat and accurate draughtsman essential; capable of preparing working drawings and supervising jobs. State experience and salary required to R. Jelinek-Karl, Chartered Architect, 22, Chancery Lane, W.C.2. 876

QUANTITY SURVEYORS. SENIOR ASSISTANTS required. Preferably with pre-war experience in Scheduling; probable costing; measuring and agreeing Final Measurements. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Surveyor." 2026

ARCHITECT requires **JUNIOR** or **INTER. ASSISTANT**, North London. Tel.: North 4114. Box 990.

ARCHITECTURAL ASSISTANTS required in busy London office; large programme of industrial and other projects in hand; Senior and Intermediate posts vacant; excellent prospects. Write, stating age, qualifications, and experience, to Box W.964, Willings, 362, Grays Inn Road, W.C.1. 1001



EETO HEAT CONSERVING CYLINDER JACKETS

TO FIT ALL STANDARD TYPES OF DOMESTIC CYLINDERS & SQUARE OR RECTANGULAR TANKS

Eeto jackets maintain and increase hot water supply with reduced fuel consumption. Specified in large numbers by architects and heating engineers for housing schemes, and extensively for use with immersion heaters in conversion schemes. Literature with details of official tests available on request.

- Finest materials only
- Permanent heat insulation
- Low initial cost.

Patent No. 328472.

Sole Makers

EETO INSULATIONS, RIVER ST., BOLTON

ARCHITECTURAL ASSISTANT required; experienced in large industrial work. Write, stating salary and experience, to L. G. Mouchel & Partners, Ltd., 38, Victoria Street, S.W.1. 845

JUNIOR ARCHITECTURAL DRAUGHTSMAN, with technical training and at least two years' experience in drawing office; salary £300-£400; permanent post; 5-day week; City office. Box 997.

ARCHITECT (SENIOR).—First-class Assistant required; all round man, used to L.B.A. and building calculations; good salary to suitable applicant. Apply, with particulars, to Dyneley Luker & Moore, 1, Lincoln's Inn Fields, W.C.2. 859

REQUIRED immediately Experienced **ARCHITECT'S ASSISTANT**, for General Practice; Surveys, sketches, working drawings, and specifications for new work and alterations, including public houses; also general maintenance and war damage repairs. Write, stating age, experience, and salary required, J. S. Thomson, F.R.I.B.A., 49, Wimbledon Hill Road, S.W.19. 809

SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., invite applications for the following supernumerary appointments:—(a) Architect, Grade I, £700×£25—£900; (b) ARCHITECT, Grade III, £450×£25—£675; and (c) ESTIMATOR, £700×£25—£900. No bonus is payable in addition to the salaries stated. Housing accommodation available if necessary. Forms of application, with full particulars, can be obtained from the Secretary, 15/21, Palmerston Place, Edinburgh, 12. Canvassing will be a disqualification. 991

OLD-ESTABLISHED Firm of Chartered Architects, practising in large South-West City, requires the services of a **SENIOR ASSISTANT**, age 25/35 years, with view to future Partnership. Write, giving full particulars of experience, etc., to Box 976.

ARCHITECTURAL ASSISTANTS required at main office, Hammersmith; housing and general design for work in England and overseas; particular openings for men capable of producing perspective drawings, also for men interested in shuttering design; salaries ranging from £400 to £500 per annum, according to qualifications and experience. Apply, giving detailed particulars, to George Wimpey & Co., Ltd., Hammersmith Grove, London, W.6. 978

THE ROYAL ARSENAL CO-OPERATIVE SOCIETY, LTD., has vacancies in the Architect's Department, and applications are invited for the following positions:—

ARCHITECTURAL ASSISTANT, qualified and experienced in the preparation of working drawings and details for all types of commercial structures.

SURVEYING AND ESTIMATING ASSISTANT, with experience in the preparation of Bills of Materials, Site Measuring and Pricing. Apply, giving full particulars of qualifications, experience, age and salary required, to the Staff Manager, 113, Powis Street, Woolwich, S.E.18. 979

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS required for Cotswold office, with varied practice; state age, qualifications, experience, and salary required. Pyle & Saint, Chartered Architects, Thomas Street House, Cirencester, Glos. 986

LEADING Firm of London Architects require **ASSISTANTS**, for work in connection with Working Class Flats, Office Buildings, Hospitals and Schools; Senior Assistant up to £750 p.a.; Junior Assistant, at least Intermediate standard, up to £400 p.a. Box 985.

ARCHITECTURAL ASSISTANT required for busy general practice (10 miles from London); School, Hospital, Housing and General work; applicants should have experience of draughtsmanship and construction, and should preferably be R.I.B.A. Intermediate standard. Apply by letter, stating age, experience in detail, and salary required, to Tooley & Foster, F.A.R.I.B.A., Chartered Architects, Buckhurst Hill, Essex. 949

ARCHITECTURAL ASSISTANT required in busy Surrey office, with possibility of Partnership to right person; Quantities experience desirable; must be keen, capable and energetic. Write, giving full qualifications and salary, to Box 965.

ARCHITECTURAL ASSISTANT required for managerial post, Hastings district; must be qualified and experienced; state age, qualifications, experience, and salary required, to Box 971.

CAPABLE ASSISTANT required for general practice in Central London; must be experienced in the preparation of working drawings, specifications, building surveys and levelling. Salary and full particulars to Box 950.

A SENIOR AND JUNIOR ASSISTANT ARCHITECT required in London office; salary according to experience and qualifications, but good permanent prospects for the right people in a general practice. Johnson & Crabtree, 2, Robert Adam Street, W.1. Welbeck 8918. 952

ARCHITECTURAL ASSISTANT required by Truman, Hanbury, Buxton & Co., Ltd., applicant should be A.R.I.B.A. and between 30 and 40 years; five-day week; superannuation scheme for permanent staff. Reply, stating age and experience, to Architect, Truman, Hanbury, Buxton & Co., Ltd., 91, Brick Lane, London, E.1. 953

ARCHITECTURAL ASSISTANT required immediately. Apply, stating age, experience and qualifications, Messrs. Martin & Martin & W. H. Ward, 105, Colmore Row, Birmingham, 3. 954

EXPERIENCED ARCHITECTURAL ASSISTANT wanted. Raymond Erith, F.R.I.B.A., 5, Queen Street, Ipswich. 917

QUALIFIED CHIEF ASSISTANT (not under 35) required for busy East Anglian office; housing accommodation provided if required; car owner-driver; good designer; experienced in controlling jobs through all stages. Reply, stating salary required and with full details, to Box 974.

ASSISTANT required by Manchester Architects; Inter. R.I.B.A. standard; capable of making building surveys, preparing detailed drawings and specifications; progressive position; state age, experience and salary. Box 930.

ARCHITECTS, SENIOR ASSISTANTS required. Should have good knowledge of commercial and industrial buildings and contemporary design. Apply in writing to S.C.W.S., Ltd., Architectural Department, 119, Paisley Road, Glasgow, C.5. Envelopes to be endorsed "Architect." 2025

ARCHITECTS require **JUNIOR AND SENIOR ASSISTANTS**. Write H. Jackson and R. Edmonds, F.R.I.B.A., 65, New Street, Birmingham, 2, stating qualifications, experience and salary. 937

Architectural Appointments Wanted

QUALIFIED QUANTITY SURVEYOR (35), London trained, seeks appointment with Architects or Surveyors, where unfurnished room(s) is available. Box 281.

A.R.I.B.A., aged 34, desiring change, requires a post as **SENIOR ASSISTANT**; London or Southern Counties. Box 287.

ASSISTANT SURVEYOR (age 23), taken Inter. R.I.C.S. (Building), 1949, 4 years' experience in all kinds survey work (for valuations, war damage, dilapidations, quantities), good draughtsman, articles served, seeks further experience in progressive firm. Box 291.

Other Appointments Vacant

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

ARCHITECTURAL METALWORK REPRESENTATIVE required with a connection amongst Architects and Architectural experience. Apply by letter in first instance to Morris-Singer Company, Ferry Lane Works, Forest Road, Walthamstow, E.17, stating age, experience and salary required. 2062

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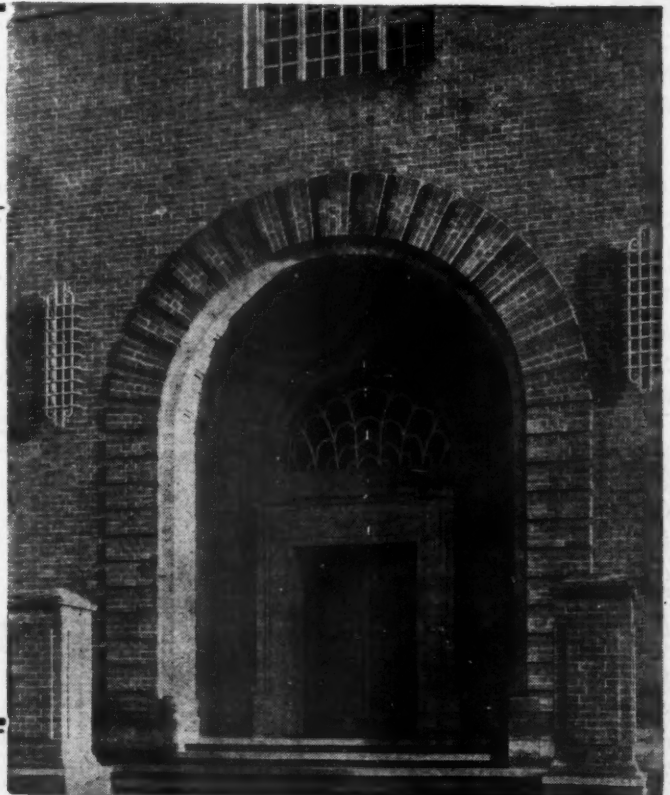
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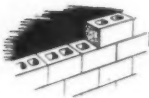
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