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standard

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

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Architectural Appointments Wanted Vacant and

No. 2824] [Vol. 109 THE ARCHITECTURAL PRESS 9, 11 and 13, Queen Anne's Gate, Westminster, S. W.1. 'Phone: Whitehall 0611

> Price 9d. Registered as a Newspaper.

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 Ic one week, Ie to Z the next. In all cases where the town is not mentioned the word LONDON is implicit in the address.

Institution of Electrical Engineers. Savoy Place, W.C.2. Temple Bar 7676 Illuminating Engineering Society. 32, Victoria Street, S.W.1. IES Abbey 5215 Institution of Gas Engineers. 1, Grosvenor Place, S.W.1. IGE Sloane 8606 **IHVE** Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1.

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Institute of Landscape Architects. 12, Gower Street, W.C.1.

Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2.

Temple Bar 4071
Museum 7197 ILA I of Arb.

Institute of Builders. 48, Bedford Square, W.C.1. Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. IR 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 Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. LIDC

Whitehall 7264 Museum 3891 MBA London Master Builders' Association. 47, Bedford Square, W.C.1. M MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1. MARS Euston 2158-9

MOA Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400 Ministry of Education. Curzon Street House, Curzon Street, W.1. Ministry of Health. Whitehall, S.W.1. MOE Mayfair 9400 MOH Whitehall 4300 Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711 Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1. **MOLNS** MOS MOT MOTCP

Whitehall 8411 MOW Ministry of Works. Lambeth Bridge House, S.E.1.
NAMMC Natural Asphalte Mine-Owners and Manufacturers Council. Reliance 7611

94, Petty France, S.W.1. Abbey 1010
National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 5277/8
National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
National Council of Building Material Producers. 2, Caxton Street, S.W.1.Abbey5111 NAS NBR NCBMP National Federation of Building Trades Employers. 82, New Cavendish Street
W.1. Langham NFBTE

National Federation of Building Trades Operatives, Federal House,
Cedars Road, Clapham, S.W.4. Macaulay 4451
National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3
National House Builders Registration Council. 82, New Cavendish Street, W.1.
Langham 4041
Molecute 1380 **NFBTO NFHS** NHBRC

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42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
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Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House,
S.E.1. Reliance 1761 PEP PWB

Post War Building, Discounting Part Prance, S.W.1. Whitehall 9936
Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9936
Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Edinburgh 20396
Welbeck 5721
Welbeck 5721 RCA

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Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1. Whitehall 5322

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Royal Society. Burlington House, Piccadilly, W.1. Regent 3335

Royal Society of Arts. 6, John Adam Street, W.C.2. Temple Bar 8274

Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Sloane 5134

Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19

Society of British Paint Manufacturers. 20, Piccadilly, London, W.1. Regent 6347

Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Western 1571 RIBA RICS RFAC RS RSA RSI RIB SCR

Western 1571 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3. SFMA

Structural Insulation Association. 14, Moorgate, London, E.C.2. Central 4444
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. Scottish National Housing & Town Planning Council.

Hon. sec., Robert Pollock, Town Clerk, Rutherglen.
Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.

Holborn 2646
Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.

Temple Bar 5006 SPAB

TDA Timber Development Association. 75, Cannon Street, E.C.4. City 6146 (3 lines) Victoria 8815 Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 81, Cannon Street, E.C.4 TPI Timber Trades Federation.

81, Cannon Street, B.C.4.

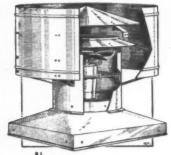
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81, Cannon Street, B.C.4.

Devonshire House, Mayfair Place, Piccadilly, W.1.

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The following extract is from National Building Studies Bulletin No. 3-"Concreting & Bricklaying in cold weather "-".... the mortar must not only be prevented from freezing but also be maintained at a temperature considerably above 32°F for several days, if anything approaching normal rates of hardening is to be expected. It is therefore recommended that for cold weather work, CEMENT: LIME: SAND: mortars of the order of 1: 1: 5-6 should be used rather than the leaner 1: 2: 8-9 on account of their increased strength and superior rates of hardening."

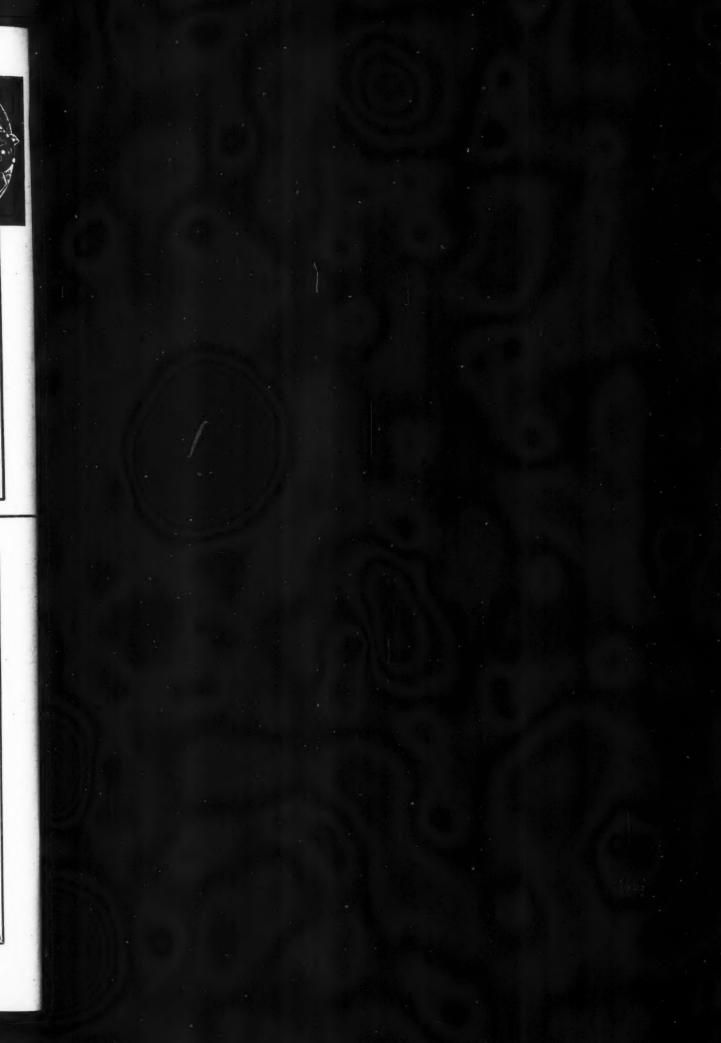
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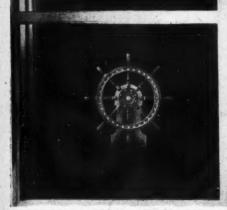
THE SOUTHERN LIME ASSOCIATION, 73/78, HIGH HOLBORN, LONDON, W.C.1 Telephone: HOLBORN 5434

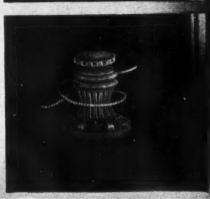




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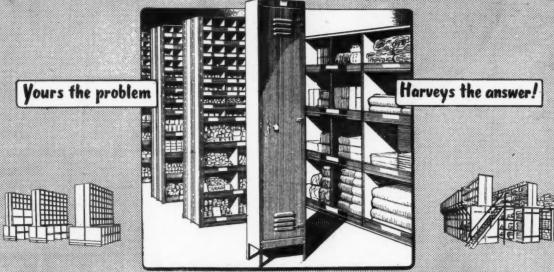
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MAPS

TRAFFIC

DIRECTION SIGNS

STEEL STORAGE EQUIPMENT

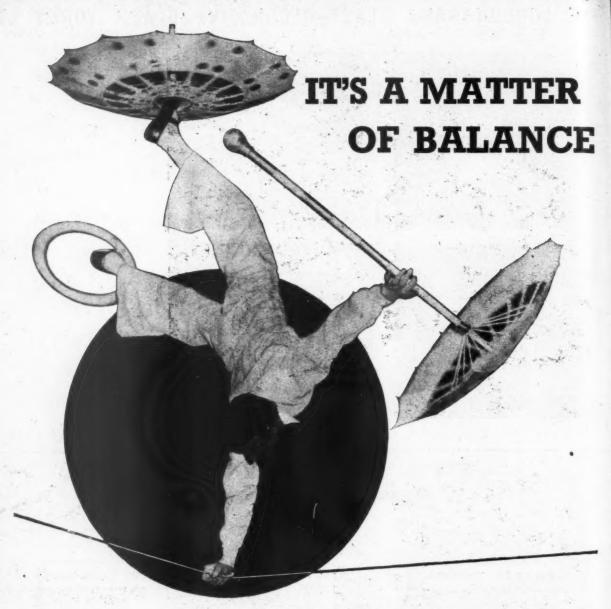


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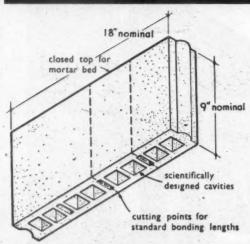


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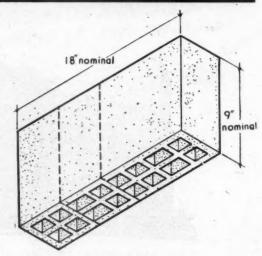
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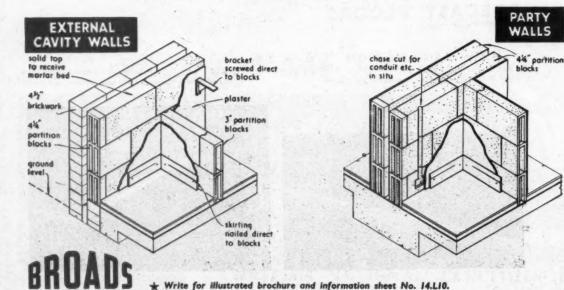
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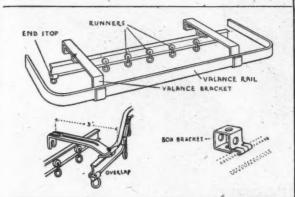




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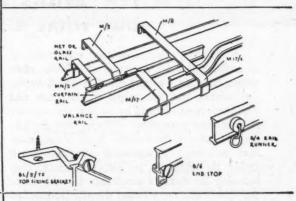


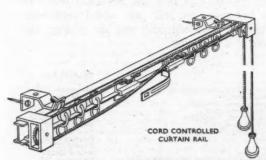
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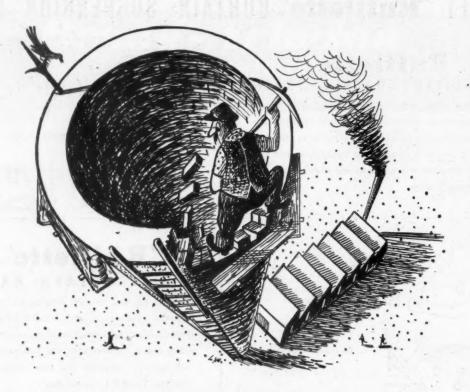
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Architect's journal: the following information Sheets are available and will be sent on request to manufacturers. SHEET 44 D.I. ("RUFFLETTE" RECESSED TRACK). SHEET 44 D.Z. ("RUFFLETTE" B/L and M Type Rails).

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NORTH-WEST AND NORTH-EAST

Many daring and courageous men answered the call of the sea when Queen Elizabeth gave forceful encouragement to voyages of discovery and adventure. The New World in the West was gradually yielding its secrets. With each new discovery came romantic stories of incredible wealth to be won by brave and enterprising seamen and traders. The languid luxury of the tropics, the exotic fertility of the soil, with gold and precious stones in an undreamed of abundance, were the rich rewards that far outweighed the unknown dangers and hazards.

In spite of all this lure of the West the quest for new routes to the East continued. After Megellan had rounded the Horn in 1520, finding a stormy passage round the south of the Americas into the Pacific, attempts were made to discover a North-West route. Again and again expeditions were equipped without success. Instead the finest fur country of the world was discovered.

First the French, and later the Dutch following the Englishman Henry Hudson, started the trade in furs. Two Frenchmen named Grosvilliers and Radisson, after having been badly treated by their own Governor, enlisted the aid of Charles II for an expedition in 1668. It was this venture that finally established the great beaver fur trade of Northern Canada for the English. A Charter was granted in 1670 empowering the "Company of

Adventurers of England trading into Hudson's Bay" to have the sole trade and commerce with the entrance to the Hudson Strait.

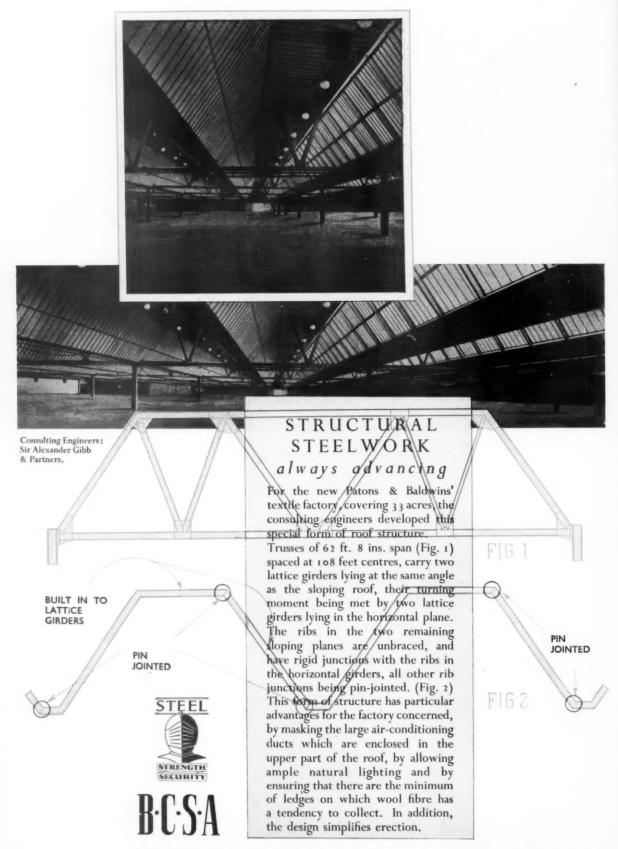
During the long years of war with France there was as much fighting as trading in vain efforts to expand. Trading posts were converted into forts. They were stormed and burned, re-established and again destroyed by the French. The Company's men fought heroically against the regular troops of the French, but the odds became too great and led almost to bankruotcy. Following the Peace of Ryswick in 1697 the Company recovered and a steady and prosperous trade began which continues to the present day. It is indeed, the last surviving Chartered Company and, despite all its arduous activities, it was not until 1905 that the North-West passage was eventually navigated only to prove unproductive.

The story of the North-East passage is neither so romantic nor successful. Many were the fruitless attempts of the Muscovy Company of London. founded in 1553, to reach the East by a route north of Asia. Although this Company opened up trade through Archangel and developed the whale fisheries at Spitzbergen, it was not until 1878, that the North-East passage was safely made, but was found to be wholly impracticable as a trade route.

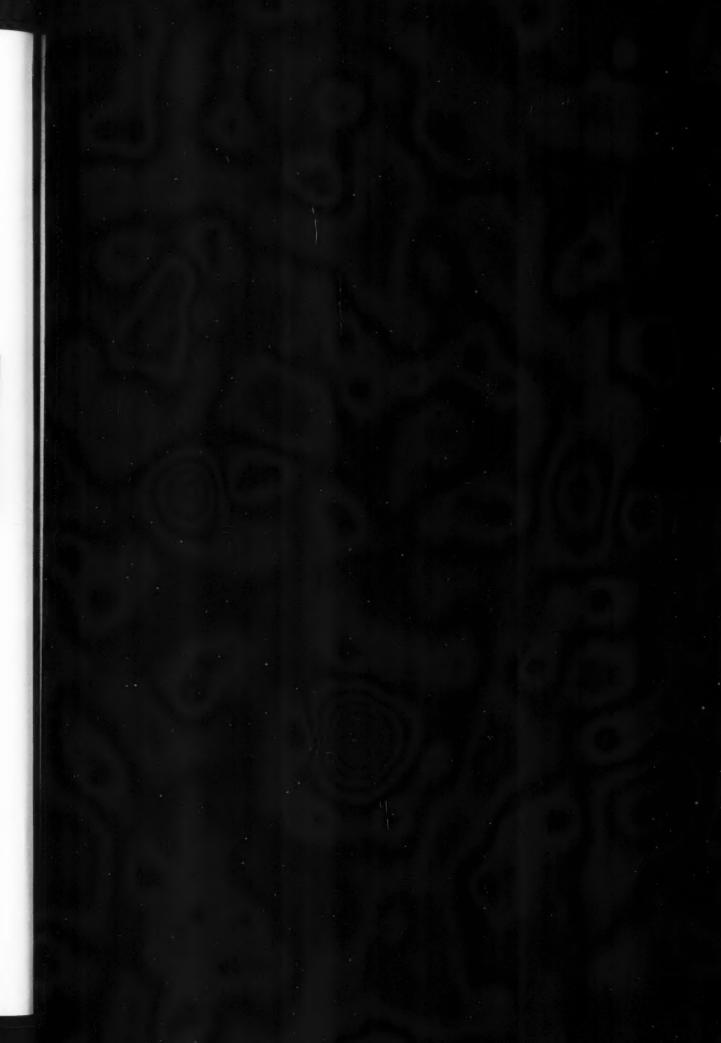


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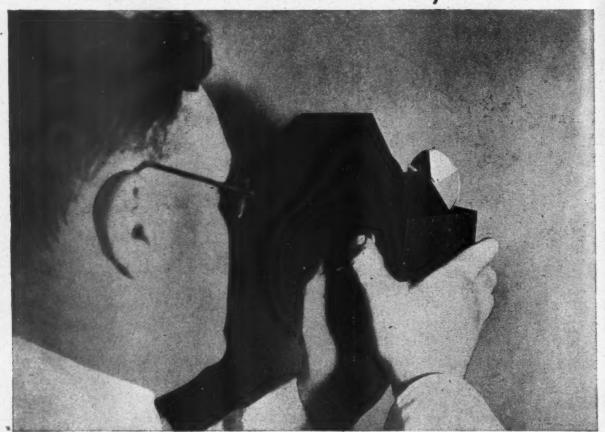
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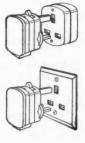
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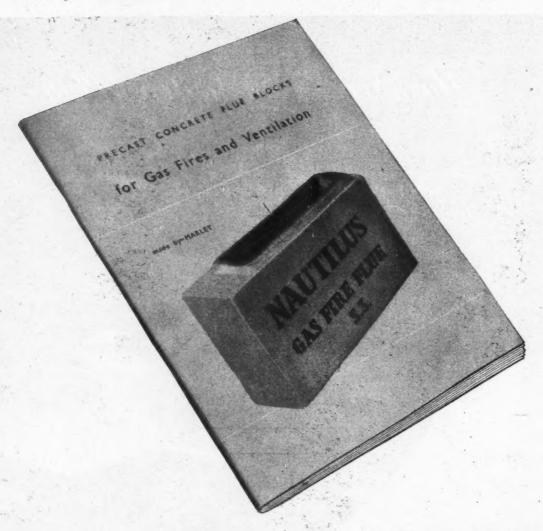
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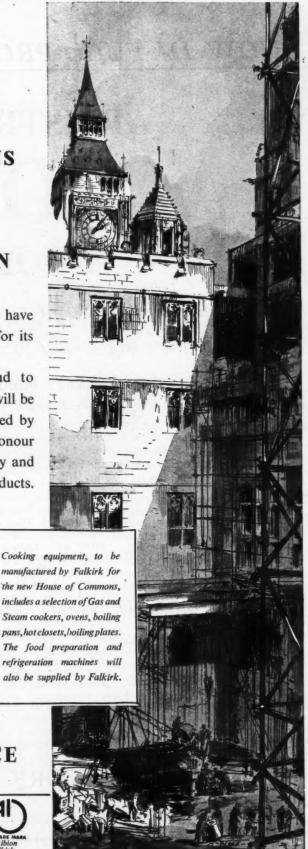
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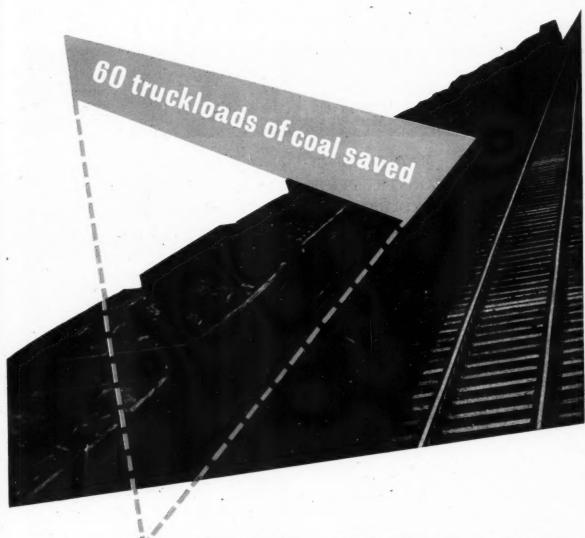
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		1/4"	226	1/4"	22G 4" 1/2"	1/4"	1/4"	220 1/2"	226
Thermal Transmittance 'U'		1.40	1.50	0.31	0.32	0.35	0.23	0.36	0.24
heat less per 1000 sq. ft.	Fuel Consumption tens p.a.	7.7	8.3	1.7	1.8	1.9	1.3	2.0	1.3
1000	Cost of Heating Plant. Gost £'s	88	34	18	20	22	14	22.5	15
Saving in Plant and Fuel due to Celetex Insulation %				78	79	75	84	76	84

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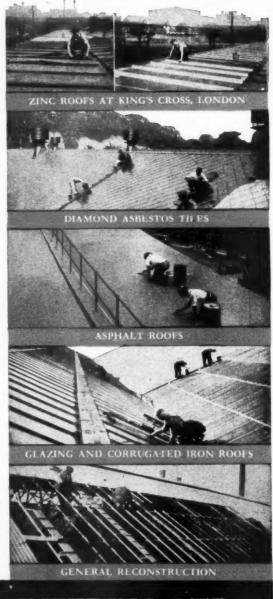
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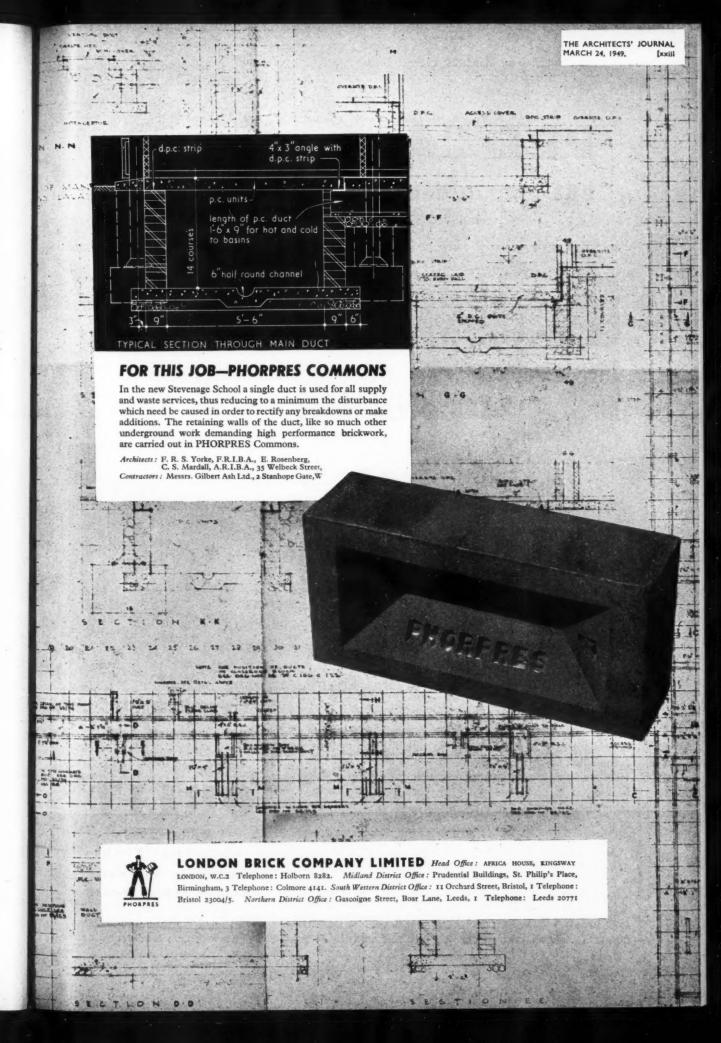
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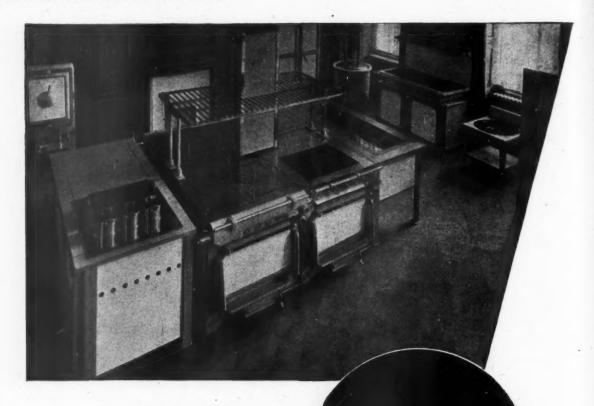
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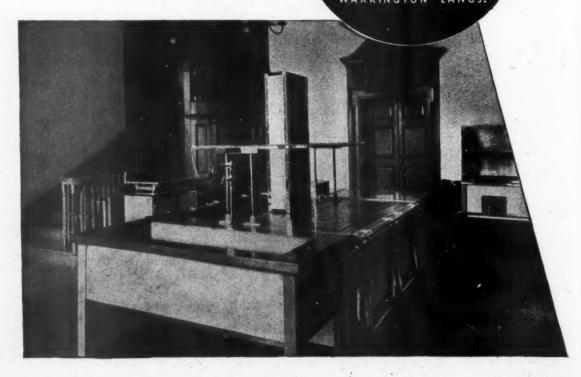
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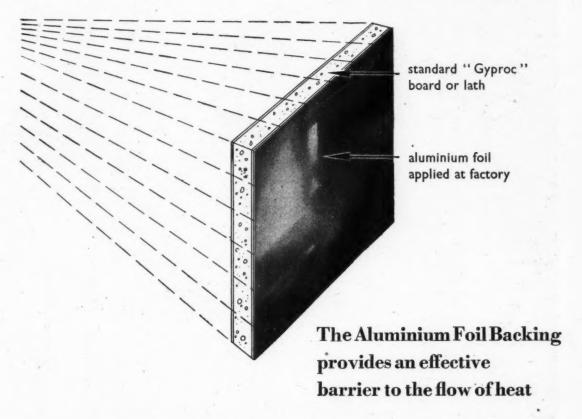
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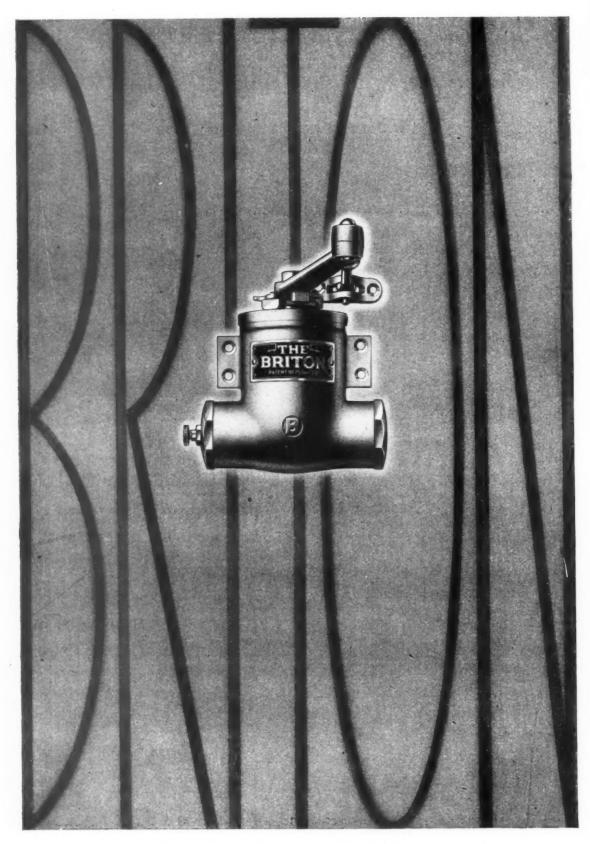
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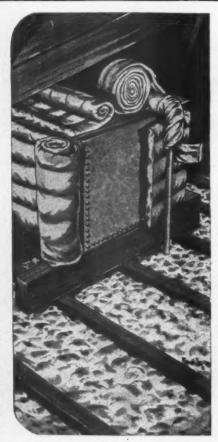
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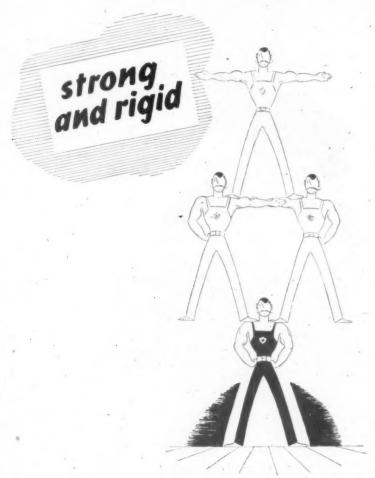
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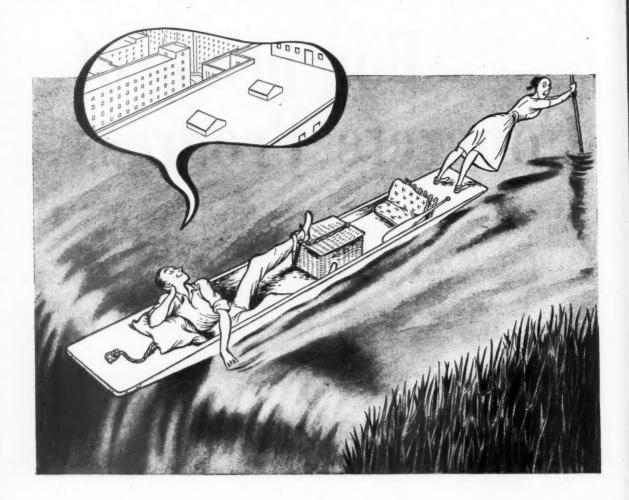
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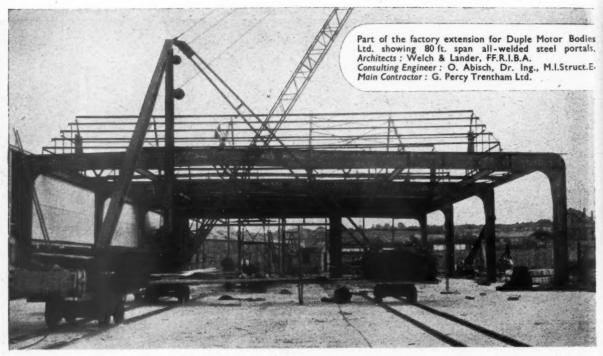


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DIARY FOR MARCH MAY APRIL

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.

C. "The Critics." Exhibition of In-dustrial Architecture. Discussion on dustrial Architecture. Discussion on the Home Service. 12.10 p.m. MARCH 27

J. Idenburg. Housing and Town Planning in the Black Countries. Midland Service. 7 p.m. MARCH 28 7 p.m.

BRISTOL. BRISTOL. Allied Ironfounders' Exhibi-tion Train. No. 11 Bay Platform, Temple Meads Station, Bristol. (Sponsor, Allied Ironfounders.) MARCH 28-APRIL 2

CARDIFF. Allied Ironfounders' Exhibi-tion Train. No. 2 Bay Platform, Car-diff (Queen Street) Station. (Sponsor, Allied Ironfounders.) UNTIL MARCH 26

GLASGOW. Exhibition, "Glasgow To-day and Tomorrow." Kelvin Hall, Glasgow. (Sponsor, Scottish Committee of the CID and the Glasgow Corporation.) UNTIL APRIL 9 GLASGOW.

HULL. Eric Ravilious Memorial Exhibi-tion. At the Ferens Art Gallery, Hull. (Sponsor, ACGB.) UNTIL MARCH 26

IVERPOOL. Dr. J. C. Weston. Recent Liverpool. Dr. J. C. Westell. Act the City Technical College, Byrom Street, Liverpool. (Sponsors, BRS, MOW and the Liverpool Architectural Society.) 7.15 p.m. MARCH 24

LONDON. Exhibition of Pre-stressed Concrete Construction. At the Insti-tution of Civil Engineers, Great George Street, S.W.1. (Sponsor, MOW.)

UNTIL MARCH 25
Ideal Home Exhibition. At Olympia.
(Sponsor, The Daily Mail.) UNTIL MARCH 26 Exhibition of Industrial Architecture. At the RIBA, 66, Portland Place, W.1. Week-days 10 a.m.-7 p.m. Saturday 10 a.m.-5 p.m. UNTIL MARCH 29

Planning the Hartlepools Exhibition. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.)

UNTIL MARCH 31 J. Webb. Interim Report on the Rural Housing Survey. At the Housing Centre, 13, Suffolk Street, Pall Mall, S.W.1. (Spon-MARCH 29 sor, HC.) 1.15 p.m.

Dr. J. C. Weston. The Efficiency of House Heating. At the Institution of Mechani-cal Engineers, Storey's Gate, S.W.1. (Spon-sor, Institute of Fuel.) 5.30 p.m.

MARCH 29 Edgar Kaufmann. Museums and Industrial Design. At the RSA, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 2.30 p.m. MARCH 30

J. R. Adams, President of the TPI. The Work of a County Planning Officer. At the Planning Centre, 28, King Street, W.C.2. (Sponsor, TCPA.) 6.15 p.m. March 30 W. A. Martin. English 18th Century Collections of Pictures, at the Chartered

Auctioneers' and Estate Agents' Institute, 29, Lincoln's Inn Fields, W.C.2. (Sponsor, Chartered Auctioneers' Institute.) 6 p.m. MARCH 31

Presentation of the Royal Gold Medal to Howard Robertson, at the RIBA, 66, Portland Place, W.1. (Sponsor, RIBA.)

APRIL 5 Weston. M ANCHESTER. Pr. J. C. Weston. Recent House Heating Experiments. At the College of Technology, Sackville Street, Manchester. (Sponsors, BRS, MOW and the Manchester Society of Architects.)
7.15 p.m.

MARCH 25 7.15 p.m.

N OTTINGHAM. University Theatre Exhibition. At the Chapel Bar Art Gallery, Nottingham. (Sponsor, ACGB.)
UNTIL MARCH 26

COMPETITIONS

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Fleet Air Arm Memorial of the 1939-45
War, at Lee-on-Solent, for the Imperial War
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without value for someone, there are often good reasons why certain news calls for special emphasis.

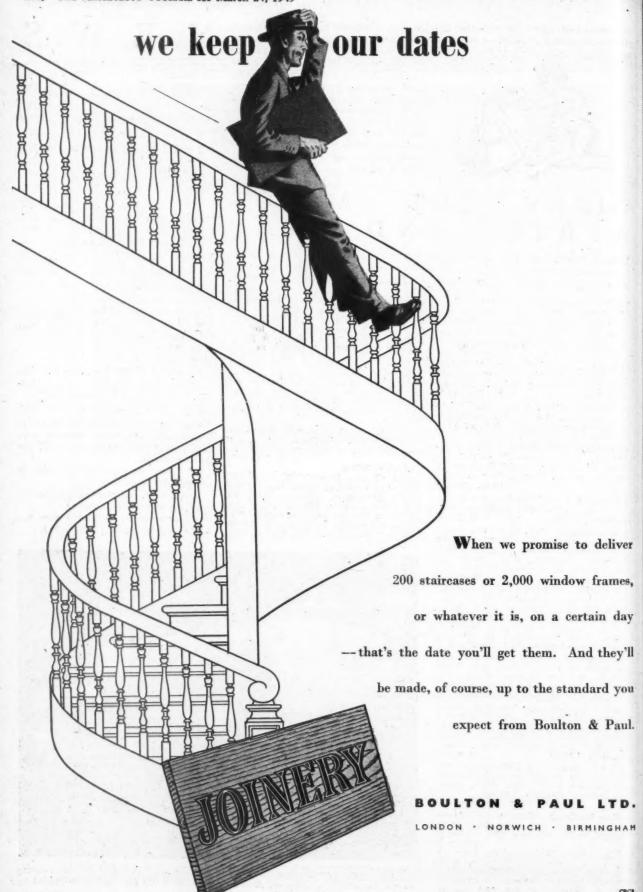
* means spare a second for this, it will probably be worth it.

** 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.



The British European Airways Air Travel Exhibition which is to tour the country during the next few months. Consultant Architect to the BEA the late Christopher Nicholson. Architect : Hugh Casson. Assistant : John Battiscombe.



F H L C

so de C From AN ARCHITECT'S Common place Book
HOUSING STANDARDS. [From Building for the People, by Richard Sheppard (George Allen & Unwin,
Ltd.).] Acts were passed in 1848 and 1855 which attempted to clean up some of the worst abuses...
Certain standards of spacing for new houses to ensure air and ventilation, floor-to-floor heights and
some form of vent to every habitable room, were made mandatory. They produced the dreary
developments of road and tunnel house we know and condemn today.

Apart from the so-called

some form of vent to every habitable room, were made mandatory. They produced the dreary developments of road and tunnel house we know and condemn today . . . Apart from the so-called Cross Acts of 1875 and 1879 relating to the improvement of labourers' dwellings, this remained practically the only official intervention in housing, as far as legislation goes, right up to the end of the last war. The effect of this panic legislation upon our physical environment is obvious enough. What is at least as important, if less obvious, is its moral effect. It produced, by way of reaction, the garden city. The reformers of the late nineteenth century, having before them on every hand the evils of overcrowding and of the legislation of the mid-nineteenth century, rushed to the opposite extreme and insisted that the remedy lay in low density. They recommended eight to twelve houses to the acre. Now, although a lower density may be a step in the right direction, the numbers selected gave no more light, air, and sunshine than could have been achieved with more methodical planning at less cost in land . . . We probably know as much about the conditions necessary for keeping healthy pigs as we do for men and women.

**
THE NATIONAL PARKS
AND ACCESS TO THE
GOUNTRYSIDE BILL
was published on March 17.

It proposes to create national parks and to protect areas of outstanding natural beauty, it provides for a national survey of footpaths and the creation of new footpaths such as the Pennine Way, the Pilgrim's Way, and coastal paths; and it extends the powers given by charter to the Nature Conservancy to provide nature reserves and to conserve wild life. The Government has abandoned the Hobhouse Committee's plan for administering national parks and proposes to place most power in the hands of local planning authorities. These would appoint park committees on which one-quarter of the members would be appointed from nominees of the Minister of Town and Country Planning after consultation with the National Parks Commission. "Park authorities" will be expected to be active within the national park areas in providing access, removing disfigurements, planting, and preserving. Although the park authorities have the duty of preserving the national parks, the Government will not forbid the industrial development of mineral rights, and so on, within the national parks if it considers development to be essential and if no alternative site can be found. The bill contains 94 clauses and is to be read with the Town and Country Planning Act, 1947, if all its implications are to be understood. It repeals the unhappy Access to Mountains Act of 1939, which provided no compensation and has been a dead letter. A national parks commission is to be appointed by the Minister, and will first consider the Hobhouse sites: the Lake District, North Wales, the Peak District, Dartmoor, the Yorkshire dales, the Pembrokeshire Coast, Exmoor, the South Downs, the Roman Wall, the North Yorkshire moors, Brecon Beacons and the Black Mountains, and the Broads, as mational parks. The bill applies only to England and Wales A separate bill for Scotland may be introduced later.

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Park authorities will have power to provide accommodation, meals, refreshments, and camping sites. It is expected that the authorities will, as a rule, work through existing organisations such as the Y.H.A., but they will be at liberty to provide accommodation themselves. Exchequer grants up to 75 per cent, will be made for the development of national parks, and up to 100 per cent, for waterways. The Minister will have power to acquire estates within the national parks which are for sale, and to transfer them to such bodies as the National Trust.

Planning authorities will have power by

agreement, order, or acquisition to give the public access to mountain, moor, heath, down, cliff, and beach. This power will apply to any open country and not only to the parks or areas of natural beauty, but in a national park area, which for this purpose includes the Broads. The power will apply to waterways as well as land.

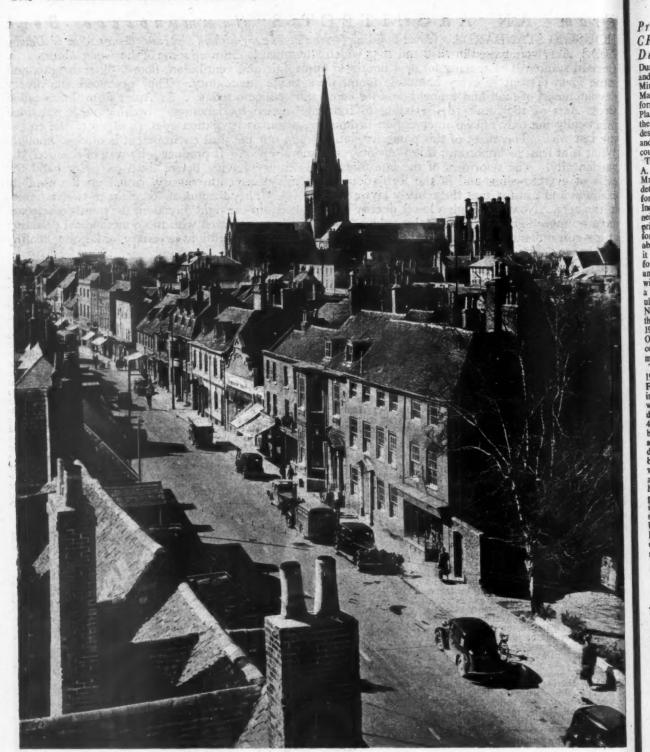
Government oppose the WAR DAM-AGE (AMENDMENT) BILL.

AGE (AMENDMENT) BILL. The War Damage (Amendment) Bill is a private member's bill which has been introduced by Mr. R. Morley. In a single operative clause the bill proposes that the Treasury—instead of the War Damage Commission—should have the last word in determining the time limit within which war damage claims may be entertained. The proposal is that the Treasury should be empowered, after consultation with the War Damage Commission or the local authority in whose area the property is situated, to

extend, at its discretion, the time limit for the notification of war damage in particular cases. The promoters of the bill say that distress is being caused to thousands of people who now discover that they cannot recover the cost of war damage repairs to their houses or other premises because claims were not filed in time with the War Damage Commission. It is argued that in many of these cases claims were not sent in because claimants were wrongly advised by local authority officers at the time that no such action was necessary. Although the Government are reported to be sympathetic towards the grievance with which the promoters of the Bill are concerned, they are opposed, on various grounds, to this method of dealing with it. A very strong objection is that if the Treasury were to be given responsibilities in this matter it would be possible for members to raise detailed questions of war damage insurance administration with Ministers in the House. One of the purposes of the appointment of a War Damage Commission was to avoid any such procedure.



Living Room in a four apartment flat designed by the Glasgow Corporation Housing Department. The internal fittings and furniture are by the Scottish Committee of the Council of Industrial Design. The room is one of a series on exhibition in the Glasgow "Today and Tomorrow" Exhibition being held at the Kelvin Hall, Glasgow, until April 9.



Chichester at the Crossroads

Thomas Sharp's plan for Chichester is made public today. Above is one of the illustrations from his report, showing North Street, with the Cathedral in the background. Dr. Sharp urges that, with a view to preserving the character and scale of one of the most agreeable towns in England, the four streets that form the centre of Chichester should

not be disturbed by street-widening schemes, although traffic congestion is one of the problems. Instead, he plans a system of inner and outer bypasses to relieve the centre of through traffic. The County Planning Officer, however, has declared himself in favour of street widening, a policy strongly opposed by the City Council.

Du

Progress Report from the-CRAWLEY NEW TOWN Development Corporation. During 1948 the work of the Corporation and their Planning Consultant, Mr. Anthony Minoprio, was directed to developing the Master Plan for the New Town in its final form, based on the Preliminary Outline Plan published in December, 1947, and to the bringing forward of the layouts and designs for basic services such as sewerage and water, to the point at which contracts could be let.

The Comporation's Chief Architect, Mr. A. G. Sheppard Fidler, and Chief Engineer, Mr. A. J. W. McIntosh, were working on detailed layouts and designs in preparation for the letting of contracts to open up the Industrial Area and the first residential neighbourhood at West Green. Mr. Minoprio was also preparing a first study design for the Central Area of the Town covering about 93 acres. While this work continued it was decided to make a start on housing for key workers, and Messrs. Godman and Kay, of Horsham, were entrusted with the task of laying out and designing a group of 34 traditional houses which will ultimately form a part of the West Green Neighbourhood. Roads and services for these houses were completed in September. 1948, and house building commenced in October. These houses will be ready for occupation in the course of the next few

The following contracts have been let in 1949 and work is now in progress:—(a) First section of the main trunk sewer leading from the site of sewage treatment works; (b) main entrance road to the Industrial Area with site services to open up 40 acres of industrial land, Tenders have been taken for the construction of the first section of the sewage treatment works, and during the next few months contracts will be let for roads and services covering the whole of the West Green Neighbourhood and the first contract for the erection of 106 houses of varying type designed by the Corporation's Chief Architect. Further housing contracts will follow and factory construction will commence in the summer, both by private firms building on ground lease sites and by the Corporation, in the case of factories, which will be let at rack rept.

NEWS IN BRIEF

Dr. Nikolaus Pevsner has been appointed to the Slade Chair of Fine Arts, at Cambridge University.

Mr. William Wurster (USA) has accepted the RIBA's invitation to become an Honorary Corresponding Member of the Institute.

The Minister of Works has appointed Mr. P. H. Cooper to be his Private Secretary in place of Mr. K. Newis, promoted to Assistant Secretary.

Mr. Thomas Arnold Brittain, chief architect of Burton-on-Trent, has been appointed borough architect of Widnes.

Teignmouth Urban District Council is to ask the MOH for sanction to borrow £15,150 so that it may buy the Ness estate, which includes the wooded Ness promontory on the west side of the Teign Estuary. The council is asking local organizations for suggestions on the development of the estate, which includes a Georgian house, cliff walks, and bathing beaches.

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TREES

THOUGH in the words of the popular song man may not be able to make trees, he can plant them, and he can fell them too. The English landscape depends for much of its beauty upon its trees, be they in coppiced woodland, avenues or hedgerow elms. It has often been pointed out that the English landscape is man made and that there is little natural forest-land remaining—even that is fast disappearing in the supposed interests of agriculture and military exercises. Now the familiar man-made scene is fast vanishing too, chiefly because in almost every rural parish the saw is at work, cutting down the trees. This would not be a matter for such concern if a comprehensive planting policy were being followed at the same time, and one that did not neglect the claims of landscape.

But this is not so. It is probably about a hundred years since extensive planting of hardwood trees was undertaken, and the trees then established with a careful eye to siting and grouping are among those now falling to the axe along with many of greater age. It is true that the Forestry Commission has great plans for extending afforestation, but these plans are falling far behind in fulfilment and are concerned mainly with softwoods, with only a sprinkling of the statelier native hardwoods as a sop to those who have expressed the view that an indigenous growth fits in more harmoniously with the topography of these islands. Even these plantations are not always well sited with regard to the landscape, and the Forestry Commission does not concern itself with hedgerow trees.

So felling goes on and planting lags. With the disappearance of the great landowner, who regarded it as a duty to embellish the landscape as far as he could see and beyond with fine trees, ornamental clumps and plantations, and who maintained with jealous care the woods and timber bequeathed him by his forbears, it has been regarded as nobody's responsibility to see that new trees shall grow to replace those that have reached maturity and shall be properly used to fulfil the needs for beam and boards.

The various Planning Acts have, however, made some provision for the preservation of trees, and the Act of 1947, with its Regulations, added in 1948, concerning Tree Preservation Orders, does provide an opportunity for maintaining the beauty of the landscape unimpaired by promiscuous felling. In a recent memorandum* the Ministry of Town and Country Planning has made clear to Local Planning Authorities their powers in the matter. They have the power to preserve individual trees and groups of trees or woodlands if they regard it as "expedient in the interests of amenity." But if the Orders for the preservation of trees proceed at the same snail's pace as the scheduling of buildings by the same authorities, many trees, which are at present valuable incidents in the rural picture, will be lost for ever, with no successors provided for.

^{*} Memorandum on the Preservation of Trees and Woodlands. HMSO Price 6d.

The Memorandum is concerned, not merely with preserving what already exists, but with its replacement. The landscape changes daily. This change can be dictated by mere expediency or cupidity, or it can be the result of a premeditated effort to develop the beauty of the countryside. The recent appointment of a Committee on Nature Conservation under the chairmanship of Professor Tansley offers a hope that the varied character of our landscape will not be without its defenders in high places. Since the great landowner is no more, the ordinary citizen must assume his traditional responsibility through the authorities appointed to act in his name.



The Architects' Journal
9, 22 and 23, Queen Anno's Gate, Wastminster S.W.2
Phone: Whitehall of 22

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

LONDON SLUMS

The congratulations due to the LCC following their decision to renew slum clearance are tempered by Astragal's disapproval of their somewhat vague approach to the problem. The following figures taken from their latest press hand-out illustrate the muddle. There is a housing waiting list, apparently, of 170,000 families, and the Housing Committee plan to acquire land inside and outside the county for 100,000 dwellings. The Council's minimum estimates for replacing insanitary homes is 24,000 houses. Before the war, the Council demolished about 3,000 slum houses a year. The Council now hope to start demolishing 1,500 houses in 1951, and propose a joint survey by the Council and Metropolitan Boroughs of slum

How does the LCC reconcile the first two figures? And to demolish, six years after the war, only half the number of houses knocked down in 1939 is hardly as impressive as the LCC no

doubt wish to appear. One may well ask why their survey was not begun some years ago—and from where the 29,000 families came who have been re-housed since the war. From anywhere, apparently, save from the slums. It would be interesting to see the order of priority for homes—is it ex-service men first, and those in rest-centres second? If you live in a slum, presumably you are used to it, and won't mind staying there until 1951.

The LCC, on the same hand-out, announce their intention of acquiring, by compulsory purchase, 630 acres at Boreham Wood, Hertfordshire. About 33,000 people will be housed here—and "existing industry, together with development of other land in the neighbourhood zoned for industry will provide adequate employment. . . . Boreham Wood will not be a dormitory development" (their italics). Let's hope the inhabitants will realize that and abide by the rules, no slipping up to town after a better job and if you want to see Betty Grable in her latest filmthen wait until she's at "the local." To the question, why not put these people in a New Town, the reply came, "because the towns are not ready." A fair indictment for those responsible.

DISAGREEMENT AT CHICHESTER

Laymen revel in a dispute between experts, and one of the most recent occurrences of the kind is likely to become famous. It concerns Chichester, a beautiful old town which has a multitude of admirers; and it is about traffic circulation in, or its diversion around, the central area—and this in any town is the toughest problem that planners have to try to solve.

In his report* published last week Thomas Sharp recommended that the

four main streets of Chichester (which meet at the medieval cross) should not be widened. Through traffic should go round the central area by new ring routes just outside the walls, and footways should be widened, sometimes at the expense of the carriageway. J. G. Jefferson, County Planning Officer, does not believe that local through traffic would use Dr. Sharp's ring routes and wants at least North Street and East Street to be widened. East Street (the main shopping street) is to be 60 ft. (30-ft. carriageway and two 15-ft. footways) so as to allow for two lines of kerbside parking.

Chichester is so small and its plan so simple that the conflicts involved in traffic improvement in an ancient city centre could not stand out more clearly. If such a town is a lively centre its streets become congested. The most obvious improvements are to widen streets and to chop corners. By so doing character begins to crumble, intimacy to go, traffic which previously shunned the central area takes a chance on getting through and more shoppers take a chance on parking in the widened streets. Traffic improvement in twenty years is often nil, and there has been a grievous loss of beauty. On the other hand, ring roads are expensive and must be free from bottlenecks, and to realize Dr. Sharp's proposals in full will require more demolition than Chichester is likely to be able to afford for a very long time.

A first study of the County Planning Officer's proposals leaves one in support of Dr. Sharp. To allow room for kerbside parking is entirely unreasonable, if car parks can be provided on back land nearby. This the City Council believe they can do. Once this is done, halting in the four main streets could be restricted to picking up and setting down, and a ring road of some kind—a first stage of Dr. Sharp's proposals—be established as soon as possible. It has been found in other towns that drivers (especially of heavy vehicles) have a keen nose for the easiest route, in terms of time, stops and starts, and hauling at a heavy wheel. They are not likely to feel differently at Chichester.

[&]quot;Georgian City: A Plan for Chichester, by Thomas Sharp. Southern Publishing Co. Price 5s. od.



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Dr. Nikolaus Pevsner, appointed to the Slade Chair of Fine Art at Cambridge.

BETTER SLADE THAN EVER

It is excellent news that Nikolaus Pevsner has been appointed to the Slade Chair of Fine Art at Cambridge. It is difficult, I agree, to think of the indefatigable Dr. Pevsner in connection with anything so stationary and restful as a Chair, but the Slade Chair at Cambridge is traditionally what, if you will forgive me, might be called a "Hot Squat." Dr. Pevsner's immediate predecessor, Geoffrey Webb (now in charge of our Ancient Monuments at MOW), was the most physically energetic and mentally stimulating lecturer I have ever heard.

Before Professor Webb, Edward Prior -in his last years a tired and tragically unheeded teacher—was in his day one of the most original of the Victorian modernists with his friends Lethaby and Macartney, and was only recently named by Goodhart-Rendel as one of the Rogue Architects of the nineteenth century. Dr. Pevsner is not, of course, an architect, but he is at least an honorary Rogue, for his memory for facts is longer and larger surely than any elephant's, and his capacity for pioneering work equal to that of any Victorian architect. There may be regrets in certain quarters that there is no longer a Doctor in the house, but Cambridge has gained a skilled accoucheur of ideas, and I shouldn't be surprised to see within five years a new architectural movement emerge from Cambridge which will sweep the country as did the Camden Society a century or so ago.

DON'T WATCH THE BIRDIE The National Parks Bill, published last week, will be welcomed for the steps it takes towards the preservation of the countryside as well as for the provisions it makes for easy access by the public to mountains, moorland and beaches. However, free access for everyone is, I am glad to say, mitigated by certain measures of control. The public can be excluded at, for instance, lambing time, or if foot-andmouth disease is prevalent. As for the design of hostels, tea-rooms, petrol-pumps, signs, gates, stiles and bridges-this will be under the control of local authorities, watched by the eagle eyes (I hope) of the National Parks Commission.

THE ARCHITECTURE CLUB

Elder Duncan would have been delighted at the success of last week's meeting of the Architecture Club, because it was largely his efforts that built it up before the war and the second post-war meeting has shown that its revival (with Godfrey Samuel as honorary secretary) is fully justified.

Since its purpose is the exchange of ideas about architecture between the architect and the layman, the choice of subject—the rights of the client—was a good one. Raglan Squire, who opened the discussion, was cunningly provocative, Lord Esher (the chairman) was witty and urbane, Guy Morgan was impetuous and reminiscent and Thomas Sharp was very much to the point.

Another very stimulating discussion, about the client in a wider sense, with Prof. Holford as chairman, took place last Thursday in Kensington Square. It was organized by the Society for Cultural Relations with the USSR with the idea of sending the text to Russia for Russian architects' comments. I am afraid it will puzzle them rather. Once more the non-architects (with the exception of Furneaux Jordan and Peter Shepheard from the platform) were the better speakers, notably the chairman of Holborn Housing Committee (whose words about the popularity of Chitty's flats would have made him blush to hear) and Elizabeth Denby, who had no good words for any architect.

ASTRAGAL

LETTERS

H. Dessau, A.R.I.B.A., A.M.T.P.I.

C. G. L. Shankland, M.A., A.R.I.B.A.

Andrew Boyd, A.R.I.B.A.

John Kay, Probationer, R.I.B.A.

Adrian Heath, Student R.I.B.A., A.A., School of Architecture.

Eric Stevenson, Student R.I.B.A., Regent Street Polytechnic School of Architecture.

LCC Housing

SIR,—All power to the AJ, SCR, and other bodies and persons who are public-spirited enough to weigh in against the clumsy housing of the LCC.

It is our responsibility as citizens, as well as professional men, to publicize this long standing issue among the public in general and the electors of the LCC. It will readily find an echo among the millions of people waiting for reasonably priced housing accommodation and can help to lead to a quantitive improvement commensurate with our national needs.

Nottingham.

H. DESSAU

SIR,—Mr. J. M. Richards is to be congratulated on his forthright attack over the radio on the low level of the design of LCC housing and on the LCC's departures from the County of London and Greater London Plans in building at excess densities in overcrowded boroughs and in building over more of London's precious open space.

space.

Vigorous architectural criticism has been absent for far too long from the press and radio in this country. Architects—and the authorities for whom they work—should welcome public criticism from not only their technical colleagues but also from their clients, the people for whom they build. For criticism, which cannot be restricted to the external appearance of buildings, is most valuable when it comes from the people who live in them. Indeed, criticism of this kind is a pre-requisite for a healthy contemporary architecture responsive to the needs of the people.

The reasons for the LCC's departures from

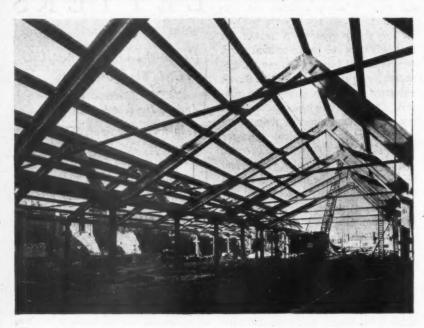
responsive to the needs of the people. The reasons for the LCC's departures from the London Plans, which Mr. Richards did not go on to explain, are obvious enough. In the case of the Holborn flats, the LCC Valuer compelled the architect, Mr. Chitty, to build at a density higher than he considered desirable. The exorbitant price of land, in this case £65,000 per acre, is the economic justification given for these high densities. It thus appears that good planning, and so the interests of the people, is to be sacrificed to a "fair price" for land investors.

The LCC builds eatellite suburbs in the

The LCC builds satellite suburbs in the Green Belt and housing estates on precious open space like Campden Hill. And this will continue so long as the Government fails to fulfil their part of the Plans and build the New Towns in which Londoners from overcrowded boroughs will find homes and work.

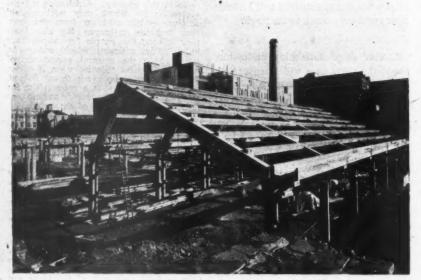
The Government excuses their failure to realize the Plans by arguing that "the country cannot afford it." But as soon as

PRE-STRESSED CONCRETE FACTORY AT BRISTOL









Four views, showing the construction of a pre-stressed concrete factory, designed by C. W. Glover and Partners, for Mardon, Son & Hall, Ltd., Bristol. This factory is one of the ex-amples to be seen in the Exhibition of pre-

stressed concrete construction being held at the Institution of Civil Engineers, London. The ex-hibition, sponsored by the MOW, is open until March 25, and will then tour the country for instance process. eighteen months.

we realize that housing estimates are in fact complementary to Military Estimates —which continue to have Supplementaries -then we shall be free to realize the objectives of the London Plans.

"The fate of London in the post-war years will be one of the signs by which posterity will judge us, and by which it is right that they should judge us... There is a long road to travel before London can become the city she ought to be. Most of us cannot expect to see more than the beginnings. But if we do not make these beginnings, if we do not set our feet on the right road, we shall have missed one of the great moments of history, and we shall have shown ourselves unworthy of our victory. Therefore let us begin now." These were the words of Lord Latham, Leader of the LCC, in July, 1943.

C. G. L. SHANKLAND, "The fate of London in the post-war

C. G. L. SHANKLAND, ANDREW BOYD, JOHN KAY, ADRIAN HEATH,
AA School of Architecture, ERIC STEVENSON, Regent Street Polytechnic School of Architecture.

D

London

Parliament In

At question-time in the House of Com-mons, Mr. A. C. Bossom (Con.—Maidstone) asked the Minister of Town and Country Planning how far he required local authorities to select for positions, where architectural decisions had to be made, only individuals who possessed the official recognition of one of the statutory bodies.

The Parliamentary Secretary, Mr. E. M.

The Parliamentary Secretary, Mr. E. M. King, who replied for the Minister, said that Mr. Silkin had no power to impose such requirements on local authorities. He added that nearly all local authorities employed architects who gave advice on these matters. This was simply a question of law and there was no legal power to do what Mr. Bossom required.

Mr. R. E. Manningham-Buller (Con.—Daventry): "Where an architect is not so employed, will the Minister recommend to the local authority that one should be

to the 'local authority that one should be so employed?"

Mr. King: "I should be most interested if the Member could give me a case where an architect is not employed."

The conception of "a classless society," in which the lawyer, the farmer, the butcher, the baker, and the lawourer all live in the some street, when kindled by the Minister. same street, was visualized by the Minister of Health, Mr. Aneurin Bevan, when he moved the second reading of the Housing Bill. He pointed out that in the past local Bill. He pointed out that in the past local authorities had been concerned only with the housing of "the working class." This ridiculous inhibition was to be removed, and it should now be made possible for local authorities to provide any sort of house which was required by the community. It was entirely undesirable that on modern housing estates only one type of citizen should live. "It is a reproach to our modern social planning," Mr. Bevan declared. "Therefore we are sweeping away all reference to housing for the working all reference to housing for the working class." He maintained that one could not get good architectural composition into a township which had all got the same type of house.

It was essential that local authorities should It was essential that local authorities should be able to provide accommodation for single persons, for persons following a professional life, and for old persons. "We must not ignore that there is a need for smaller houses," he said. "I do not mean sub-standard houses, but houses with fewer bedrooms. Old people should not have to live in old people's colonies, but should live where they have been brought up and where they can see around them every day the living tapestry of a mixed community."

Right, the entrance front; below, the rear elevation.



HOUSE AT BETHERSDEN, KENT

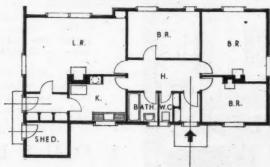
DESIGNED BY W. H. COLT, SON & CO., LTD. IN COLLABORATION WITH A. L. OSBORNE

> ally prefabricated house can be construction can be erected by supplied by the manufacturers to semi-skilled labour. By incorporhouse is classed as permanent, and the structure, the same rigidity as sumable timber.

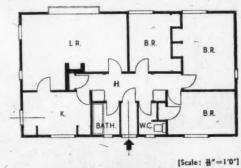
GENERAL.—This type of parti-ally prefabricated house can be construction can be erected by but considerably less timber is

used. The shingles on the walls any part of the British Isles. The ating plywood and aluminium in and roof are not classed as con-





ALTERNATIVE PLAN: FLOOR AREA 930 sq. ft.



PLAN : FLOOR AREA 900 sq. ft.

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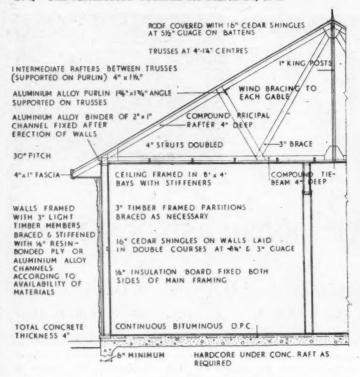
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HALF SECTION, SHOWING CONSTRUCTION [Scale: 1"=1"0"]

Below, left, the hall; right, the living room. Bottom, left, the kitchen; right, one of the bedrooms from the hall.











The dining area, looking towards the kitchen.

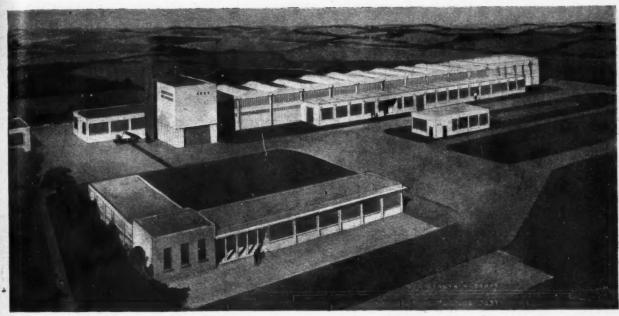
PLAN.—Accommodation consists of a living room with a dining annexe, three bedrooms, bathroom and separate w.c., and a kitchen. In one plan, with a floor area of 930 sq. ft., instead of 900 sq. ft., which is the size of the house illustrated here, a separate back entrance hall off the kitchen leads to the living room and provides cupboard and larder space.

CONSTRUCTION .- The 3 - in. framework is covered on both sides by 1-in. insulation board. On the outside surface, the insulation board is covered by a layer of building paper, then battens, and finally the shingles. The planning grid is based on a 4 ft. 0 in. unit. The 3-in. framework is of wood with aluminium stiffening members. The floor is of concrete, with a bitumastic damp-proof course and concrete-screed above. The floor finish is cork tiles, which have proved very efficient and have a valuable insulating property. The timber used for each house equals 1.48 standards.

COST.—Within the £1,300 limit—the house usually cost between £1,200 and £1,250—assuming a level site with no drainage difficulties.

HOUSE AT BETHERSDEN

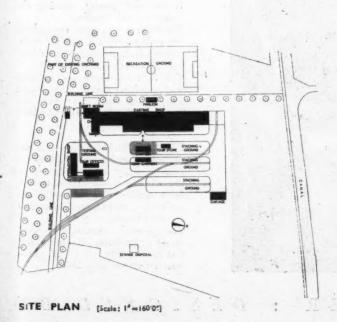




Above, perspective view showing in the background, the casting shop, and factory buildings. In the foreground is the experimental shop, laboratory and office block to be constructed in the near future.

FACTORY AT

DESIGNED BY ADIE, BUTTON AND PARTNERS



GENERAL.—The factory at Iver, built for the Concrete Development Co., Ltd., is laid out to produce fully-bonded pre-stressed concrete units on the "long line" system. In this system, steel wires are tensioned and the concrete is cast round them, the tension being maintained until the concrete is sufficiently matured. The underlying principle is to eliminate the possibility of tension arising in the concrete under normal working loads. This is done by applying a compressive stress to the concrete by means of tension in high quality steel wires, of such value that the concrete remains in compression until the working load is reached.

CONSTRUCTION. - The main factory building is 330 ft. long, made up of eleven 30-ft. bays, 56 ft. 3 in. wide and 24 ft. high to the stiffening beams. Running the length of the casting shop are two R.C. beams, 15 ft. off the ground, supporting a crane. The

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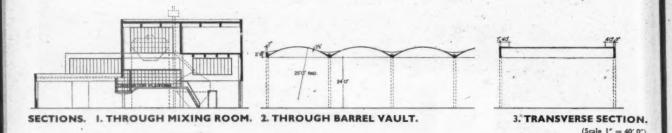
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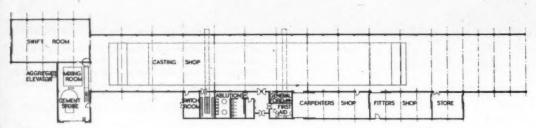
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EAST ELEVATION (Scale I" = 80' 0")



PLAN (Scale I" = 80' 0")

roof to the casting shop is reinforced concrete barrel vault roof, supported on 17 in. by 18 in. precast reinforced concrete columns.

radius, and stiffening beams and expansion joints are provided at intervals. The external wall has an infilling, 9 ft. 6 in. high, of 18 in. by 9 in. by 6 in. concrete The vaulting of the roof is 25 ft. in blocks with a cast concrete cill and capping. Above the infilling of blocks are aluminium patent

> length of the building. The swift room, used for storing the reels of wire, is 41 ft. wide, with 15 ft. bays supported on precast concrete columns.

frames and glazing running the

The lavatory block has internal walls and brickwork. The block has pre-stressed roof units and beams. The doors and windows have precast lintols.

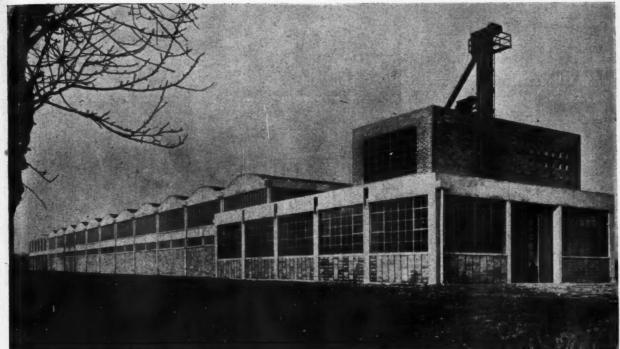
FUTURE BUILDINGS .- An experimental shop, and laboratory, connected by a covered way to the administration offices, including a conference room and manager's office, are to be constructed in the near future.

The general contractors were Messrs. Holland, Hannen and Cubitts. For list of subcontractors see page 286.

Below, the casting shop.



FACTORY AT IVER : DESIGNED BY



The factory from the west.

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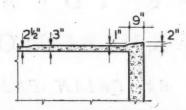
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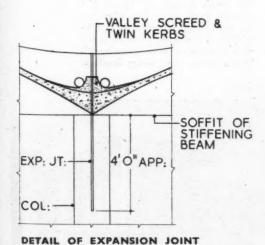
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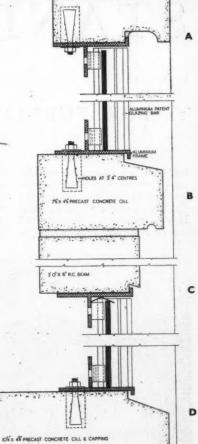
DETAIL OF STIFFENING BEAMS

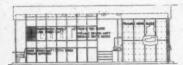


SINCE MANAGEMENT OF EXTERNAL WALL

(Sql 1" = 5" 0")

RIGHT, DETAILS A, B, C, D (Scale \(\frac{1}{2} \) fyll size)

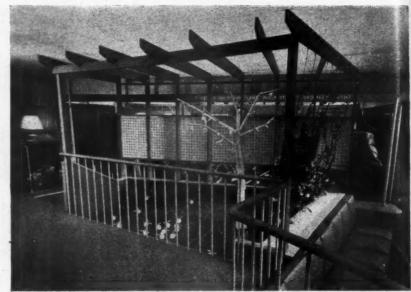




ELEVATION



PLAN [Scale : #"-1"0"]



Above, the interior of the furniture stand from fourth platform level; below, lest, the interior showing the staircase to the fourth platform; right, a general view.

STANDS AT THE IDEAL HOME EXHIBITION

1. FOR FURNITURE: DESIGNED BY BRIAN PEAKE

GENERAL.—This stand was designed to display the furniture being sold by William Perring and Co., Ltd., Paddington, at the Ideal Home Exhibition. The restricted site (26 ft. by 30 ft. 6 in. overall

floor area) and the standard fascia line were controlling factors in the planning and imposed a strictly controlled character on the design of the stand. The stand has four platform levels for displaying furniture, with a staircase up to the highest level, at which office accommodation is provided for the exhibitors. The main lettering is red on lime green perforated panels with brown frames and white beading.







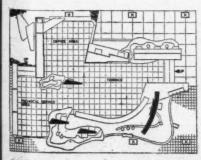
Top and bottom: two views of the Ascot stand.

2. FOR GAS WATER HEATERS: DESIGNED BY THE ARCON GROUP

signed to display the complete range of gas water heaters manu-factured by Messrs. Ascot Co., Ltd., at the Ideal Home Exhibi-

GENERAL.—This stand was de- tion. The restricted site (39 ft. by 26 ft. overall floor area) and the standard fascia line were controlling factors in the planning and imposed a strictly controlled char-

acter on the design of the stand. The stand, designed on two levels, has special areas for administration and technical service, and a terrace for the use of visitors.



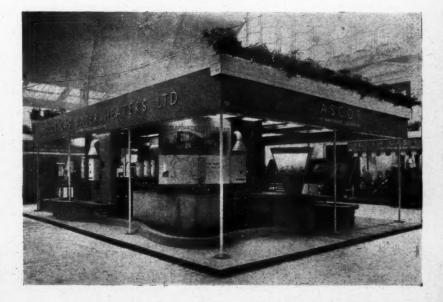
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Speeches and lectures delivered before societies as well as reports of their activities, are dealt with under this title, which includes professional societies, trade associations and government departments. To save space they are represented by their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

RIBA

H. S. Goodhart-Rendel

March 8. At the RIBA, 66 Portland Place, W.1. Extracts from the paper by H. S. Goodhart-Rendel, ROGUE ARCHITECTS OF THE VICTORIAN ERA. Mr. Michael Waterhouse was in the

H. S. Goodhart-Rendel:

According to the dictionary rogue-elephants are those "driven or living apart from the herd, and of savage temper." How far will this definition apply to the rogue architects that are my subject tonight? Not that roguery is practised only by rogues. The most orthodox gentlemen may have their lapses. In the main, however, I shall direct my remarks at the productions of no-men, of men who seldom, if ever said yes, of of men who seldom, if ever, said yes, of men of whom some were greatly to be respected and of whom others were merely naughty, of men who, whether respectable or naughty, were continuously in discord with the conventions of their time. Many people, nowadays, seem to read Loudon's Encyclopædia of Village and Cottage Architecture, a book that for many years I fancied to be a lonely pleasure of my own which few would ever share. To those who read it the name of Edward Buckton Lamb will not be strange. The most exciting woodcuts in the book are those showing his designs, whether an Italian public house, an Edwardian park entrance, or an Elizaan Edwardian park entrance, or an Elizabethan drawing room, or an extremely florid Louis XIV chimneypiece. They establish Lamb, at the least, as a man of very various resources. From the year 1850 onwards we find Lamb in full swing, designing churches, country houses and village buildings in a way all his own. In most of his churches he rejects completely the neomediaval ground plan and section upon which at his time all "correct" opinion insisted and experiments instead with large which at his time all "correct" opinion in-sisted, and experiments instead with large unbroken areas covered at a low level by steep roofs of broad span. At Bagby, in

Yorkshire, in a small church, the main area is square and its roof pyramidal. More often, shallow projections make the square cruciform, covered by two intersecting roofs. At Sowerby the re-entrant angles of the cross are partly filled by triangular additions so as to make the body of the church was received. church more octagonal than anything else, Finally, in the grand Church at Haverstock Hill and at Addiscombe in Surrey, Lamb arrives at a completely original and, I think, almost perfect solution of what a large auditorium for protestant services should be. He was a curious fellow, Lamb, apt to be very violent indoors. I have been told that in a house of his, which I have not seen, the drawing-room doors have architraves knapped flint (which sounds more like the late Sir Herbert Baker to me, but no doubt may be true). But, to return from materials to decorative details, you find in Lamb's work an uncannily near anticipation of the work an uncannily near anticipation of the peculiarities that many people used to relish so greatly in the work of the late Mr. Caroe. You find buttresses that have come loose from the walls and got into the windows, and most peculiar pinnacles, and lots of crowded, very cuspy tracery, and all sorts of funny arches and spalys. All very nice indeed when you are in the mood for it. But how often in an ordinarily stodgy congrega-tion would that mood occur? Moreover, the contemporary pundits of architecture were never in the mood for it. "Christ Church, West Hartlepool," says the Ecclesiologist in 1855, " is one of those uncouth and grotesque combinations of incongruous architectural tours de force which it requires the inartistic and withal presumptuous mind of Mr. Lamb

Now anybody who knows anything at all about the history of English architecture will tell you that the Queen Anne style was first revived in the last century, somewhere about the seventies, by an architect whose surname was Shaw and whose christian name was Norman. This is as true as most popular notions of history, but if we want to be pedantically exact we must amend it just a little. The Queen Anne style was revived in the last century somewhere in the forties, not the seventies, by an architect whose surname was Shaw, and whose christian name was John, not Norman. Norman Shaw's revival, when it came, was not really a revival so much as the invention of a so-called Queen Anne style that had never been seen before, either during the reign of that monarch or at any other time. Not even the monarch or at any other time. Not even the invention of that was strictly due to Norman Shaw, but was disputable rather between Philip Webb, Eden Nesfield, and "Jock" Stevenson. John Shaw's independence, however, is much less doubtful. The Royal Naval School, which he built at New Cross in the year 1844, reproduces very faithfully the mannerisms of the age of Wren; indeed, the resemblance between the style of its chapel and that of Wren's church of St. Benet on Paul's Wharf is very striking. As far as I can trace, no new building of this kind had been attempted, since its style had passed out of use over a century before. A few timid imitations of some of its characteristics can be seen in other scholastic build. istics can be seen in other scholastic build-ings put up shortly after Shaw's innovation, but these are not sufficiently derivative to deprive him of his rogue-hood. Yet I must allow his roguery to have been intermit-tent. There stood, within my memory, an office-block built from his plans in Fleet Street, near to the beautiful church of St. Dunstan-in-the-West, which had been the work of Shaw's father, another John. This office block had a provokingly Jacobean character that defied the prevailing fashions of its time, but it defied them in company with the earliest Victorian "Elizabethan," with the earliest Victorian "Elizabethan," in which quite a few architects were making experiments. In designing it Shaw was not working apart from his fellows! Off Fetter Lane, in Gough Square, there used to stand also a grim round arched brick church built by our Shaw, which was not essentially

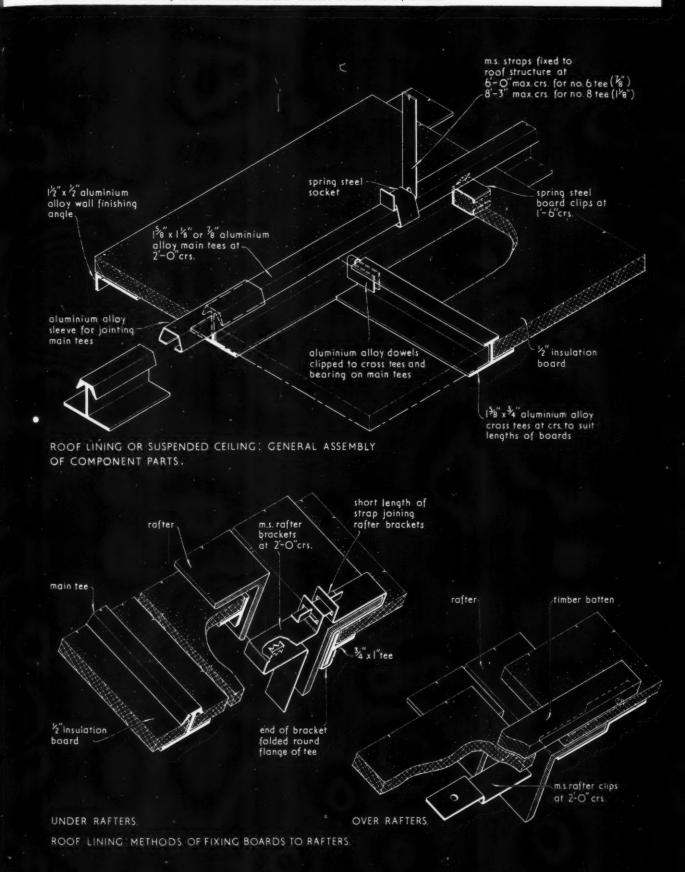
unlike much contemporary work by Edward Blore, It was not ill-designed, but was abnormal. Nevertheless, when in the year 1855 his great chance came with the commission to design Wellington College, he sailed forth in the teeth of the Gothic gale alone and undismayed. I can think of no other British architect then alive who would have dared to plan a great public school as a symmetrical whole, and to dress it in architectural clothes no older than of the late seventeenth century. John Shaw did both and produced his masterpiece. Hardly was it finished before Sir Gilbert Scott was called it finished before Sir Gilbert Scott was called in to damage it by the addition of a characteristic, and therefore artistically worthless, chapel, in the routine Gothic style that Shaw had so markedly eschewed. Thus the rogue was punished. The next peculiar architect whose works I shall bring before you is James Wild, two of whose buildings, the old St. Martin's School near Long Acre and Christ Church, Streatham, have lately been rediscovered with a certain amount of noise. John Ruskin, when he began to preach the John Ruskin, when he began to preach the gospel of southern Gothic, found that in St. Martin's School Wild had got in first, and praised his forerunner with generosity. Certainly the school, considering its date, was phenomenal: its horizontality at a time when all godly architecture was expected to shoot upwards in gables and spikes; its uniformity at a time when more than two windows of one pattern were thought wretchedly mone tonous; the pillar and beam construction of the playground on its roof at a time when pointed arches were expected even in carpointed arches were expected even in capentry; its material, red brick, at a time when pure Gothic was thinkable only in stone—all these in the year 1843 must have seemed unwarrantable in the extreme.

I have premised that whether you are I have premised that whether you are amelephant or an architect you must be lonely to be a rogue. No one must follow you, you must have no disciples. I do not think you need be disqualified if you desired disciples, provided that you did not get any. Nor need you be disqualified if futile people dury you up after you were dead and said dug you up after you were dead and said that you ought to have had disciples and that that you ought to have had disciples and that they proposed to follow you now, whatever people did while you were alive. Take my next subject, Mr. Thomas Harris. He tried to invent a new style, and proposed it for general adoption in a pamphlet entitled Victorian Architecture. If it is true, as I have heard stated that no earlier use can Victorian Architecture. If it is true, as I have heard stated, that no earlier use can be traced of the word Victorian in its present sense, then Mr. Harris has certainly been followed in something. But I am glad to say that his architectural style was practised by him exclusively, and not very extensively at that. As he grew older he gave it up himself. Harris's pamphlet is generally met with in octay form unillustration. generally met with in octavo form, unillustrated, but I have seen a copy of larger format which included one magnificent trated, but I have seen a copy of larger format which included one magnificent plate, afterwards reproduced in The Builder. This plate depicts a terrace of houses in which the Victorian style was fully displayed. It was to have been built at Harrow. I do not know whether it was built or not; I suspect not. Some years ago I might have procured for you photographs of two fully documented examples, one a building next to the Pantheon in Oxford Street, and the other a building on the west side of Bond Street. Both have now gone. There remain, however, a range of buildings on the west side of Wells Street, and a curious little club in Grotto Place, St. Marylebone, which would be good understudies for the missing masterpieces if there were any but internal evidence that they were by Harris. The novelty of Harris's developments (which in some ways resemble those attempted fifty years later by the Belgian architect Horta) was only skin deep; he had nothing new in construction to offer, but merely a fancy for queer shapes, arbitrarily conceived. In the works of his more serious contemporaries we can find shapes not dissimilar, arising by logiof his more serious contemporaries we can find shapes not dissimilar, arising by logi-cal development from the angular angular,

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22.D2 LLOYD ALLOY SYSTEM OF BOARD FIXING

This Sheet describes a system of board fixing combining the use of Lloyd standard insulation board and aluminium alloy suspension and jointing members. It is so designed that, without the necessity for drilling, it can be applied to standard roof or ceiling structures of steel, concrete or wood or structural members of angle, channel, tube or rectangular section. The system allows the boards to be fixed horizontally to form a suspended ceiling or parallel to the roof slope as a roof lining. When used as a roof lining the boards may be fixed over or under the rafters. No fixing tools are required, whole panels being locked to the supporting tees by hand pressure only.

Components

These are available in two sizes—No. 6 for 6 ft. maximum spans and No. 8 for 8 ft. 3 in. maximum spans.

Main tees: Aluminium alloy: seamless sections in lengths of 8 ft., 9 ft., 10 ft., 11 ft., and 12 ft. They support the boards longitudinally.

Sleeves: Aluminium alloy: for jointing main tees.

Cross tees: Aluminium alloy: seamless sections 1 ft. 105 in. long. They support the boards across their 2 ft. widths.

Dowels: Aluminium alloy: the dowels are clipped to the cross tees and bear on the flanges of the main tees.

Sockets: Spring steel: for joining straps to main

Straps.: Mild steel: for securing main tees to roof structure.

Clips: Spring steel: for fastening boards to main tees. They are spaced at approximately 1 ft. 6 in. centres.

Rafter tees: Aluminium alloy: for trimming boards at rafters.

Rafter brackets: Mild steel: for binding rafter tees to rafters when boards are fixed under rafters. They are spaced at approximately 2 ft. centres. A

pronged claw cut and pressed out of the bracket holds the board in position.

Rafter clips: Mild steel: for securing boards to rafters when boards are fixed over rafters. They are spaced at approximately 2 ft. centres.

Angles 90°, 125° and 135°: Aluminium alloy: for trimming boards at wall, eaves and ridge respectively.

Insulation Boards

Lloyd standard insulation boards are supplied in lengths of 6 ft., 8 ft., 9 ft., 10 ft., 12 ft., and 14 ft., by 2 ft. wide. The maximum length recommended for this system is 8 ft.

Finish

The aluminium alloy sections are normally supplied in their natural finish. They may also be supplied anodised or etched.

Sound Absorption

 $\frac{1}{2}$ in. insulation board lining has a sound absorption coefficient of 0.3 (average).

Thermal Insulation

The thermal insulation of Lloyd insulating board linings should be calculated from the conductivity value K=0.35 B.th.u./sq. ft./hr./1° F./in. thickness.

Compiled from information supplied by:

Bowaters Building Boards Limited.

Address: 15, Portman Street, London, W.1. Telephone: Welbeck 8527.

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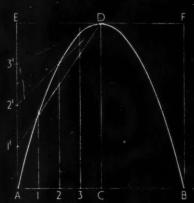


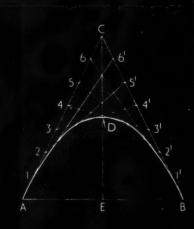


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PARABOLA





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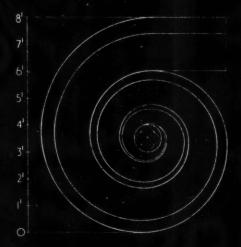


HYPERBOLA.





ARCHIMEDEAN OR EQUABLE SPIRAL.



VOLUTE



key of volute

SPECIAL CURVES.

Compiled by Leslie A. Lee, L.I.O.B. and H.N. Hoskings, A.R.I.B.A. for Eagle Pencil Company — Chemi-Sealed Turquoise pencils

1.B14 GEOMETRICAL CONSTRUCTION: SPECIAL CURVES

This Sheet describes the properties of a number of special curves and gives methods of construction.

Definition: A plane curve formed by the intersection of a cone with a plane parallel to its side.

Construction: Two methods are shown. In the first AB is the width of the base line and CD the height of the curve. On AB construct a rectangle AEFB making the height equal to CD. Divide AE into any number of equal parts and AC into the same number of equal parts. Draw lines from D to the divisions on AE to cut perpendiculars erected from the divisions on AC. Join the points of intersection to form half the curve. Continue the procedure to complete the whole curve.

The second method shows the construction when the ordinate and axis height are given. AB is the ordinate, EC the axis and D the vertex or point where the curve cuts the axis. Make DC equal to ED. Draw lines AC and CB and divide them into the same number of equal parts.

Join 161 251 etc. and complete the curve through the points of intersection formed.

Hyperbola

Definition: A curve produced when a cone is cut by a plane, making a larger angle with the base than the side of the cone makes.

Construction: The diagram shows a method of construction when the axis CG, the vertex D, and the ordinate AC are given. On AC construct a rectangle ACDE. Divide AC and AE into a corresponding number of equal parts. Draw lines from G to the divisions on AC. Draw lines from D to the divisions on AE. Join the points of intersection to form half the curve. Continue the procedure to complete the whole curve.

Helix

Definition: The locus of a point moving round the surface of a cylinder and at the same time advancing axially, the rate of progress being constant in both directions. The advance (axially) per revolution is known as the pitch.

Construction: The diagram shows the outline plan and elevation of a cylinder. Divide the plan into any number of equal parts and the height into the same number of equal parts. Produce ordinates from the plan to cut the horizontal co-ordinates in the elevation. Join the corresponding points of intersection to form the curve. The diagram to the left of the elevation shows a part development of the circumference from which it will be seen that the development of the helix is an inclined straight line.

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Archimedean or Equable Spiral

Construction: Divide the longest radius vector OA into 24 equal parts. Draw other radius vectors to form 12 equiangular spaces. With centre O and radii progressively shorter by one division from A draw arcs to cut the vectors in turn. Join the points of intersection to form the curve.

Construction: The line 081 in the diagram represents the overall height of the volute and the unit 3141 the diameter of the key or eye. The large detail of the key of the volute shows how the arcs joining the curves are arranged. The centres for the outer spiral are numbered 1 to 12 and are equal divisions along the diagonals. The centres for the inner spiral are one-third of a division in from the numbered points, i.e., first centre for inner spiral is the point on the diagonal one-third of the distance 15. With centre 1 and radius to coincide with the top of the volute describe a quarter of a circle. With centre 2 and radius to coincide with the end of the quarter circle already drawn describe a further quarter circle. Continue the procedure to complete the curve of the outer spiral.

This Series of sheets covers geometrical drawing, orthographic, isometric and axonometric projections, perspective, rendering, lettering and draughtsmanship generally.

Compiled from information supplied by:

Eagle Pencil Company.

Address: Ashley Road, Tottenham, London, N.17. Telephone: Tottenham 4435-6-7. Telegrams: Octennial, London.

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Gothicism of the day. It was not only rogues then that were of savage temper architecturally, but Harris's roguery lay his empiricism, his impatience of rational restraint. His later practice was not conwith his earlier, because having satirized the Queen Anne style of the seventies by a drawing in which it is amusingly caricatured, which, having seen, I have been unable to find again; he then perverted its practice and spread it at very great expense all over the inside of St. Marylebone Parish Church.

In the Victorian era there ran out of the herd two architects who did savage and lonely acts amid a great deal of applause, some of which we echo today. Their names Alexander Thomson and William field. Thomson's picture hangs in my Rutterfield. gallery, Butterfield's does not. I know no buildings by other architects that imitate particular mannerisms except Butterfield's one or two by his nephew R. W. Drew that do it faintly, and a church designed by James Brooke early in his career in which the Butterfieldian flavour is strong. But in theory Butterfield was a leader and evangelist and proved himself a leader and evangelist. You cannot make a rogue of a evangelist. man from whom almost all contemporary Gothicists accept the tenet that angles are Christian than curves, even though more Christian than curves, even mough they left him to himself when he provided saints with polygonal haloes. There is a great deal I should like to say about Butter-field for his own sake, but his only place now can be in my background. Thomson, on the other hand, was no teacher but a true rogue within the meaning of my thesis. Trained in youth to produce the baronial style as understood in Glasgow, he seems to have run a side line in the cottage orne style that in England had just been superseded by forms less fanciful. Whether the importance of his cottages, every which is an exaggeration of something that the orthodox opinion of his time had just learnt to disapprove, was due to his provincialism or to his incipient to his provincialism or to his incipient roguery, I cannot pretend to decide. Besides kirks and office buildings, Thomson, after his conversion to Grecianism built some houses of which that called Holmwood at Cathcart is a charming example. Of these houses he seems to have designed all the internal decoration (most of it highly Grecian in varnish pine), a thing that not many architects of his day were either competent or permitted to do. Taking his work in the mass, we cannot, I think, call Thomson a great architect have the competition of the second before the contract of the son a great architect, but we can call him with truth one having great originality of outbook, and great skill in architectural ficture making. With a little less attention picture making. With a little less attention to style and a little more attention to prohe might have proved no rogue but leader.

I am now going to bring to your notice trio of architectural rakes, whose deeds of lawlessness are not altogether unlike. Had they ever acted in any sort of concert we might have regarded them not as rogues but as a gang, but no concert seems to have existed between Messrs, Roumieu, Peacock and Keeling, for these were their names. Each did his best to debauch the Gothic Revival, independently of the others, and the general resemblance between the results of their attempts was due not to the similarity of their efforts but to the identity of their victim. In any serious history of English architecture Roumieu would be a negligible figure. A rake, in his designing. was, one imagines, in his professional life a pillar of respectability, and his aesthetic rakishness for all its violence is eventually dull. He was for twelve years in partnership with an architect inferior to himself called Gough, who by some strange ministrated Gough, who by some strange misjudgment is commemorated at consider-able length, in the Dictionary of National Biography. In the design of Milner Square, Islington, the partners seem to have remembered something of the teaching they may have had when they were pupils in Benjamin Wyatt's office, with results that are spectacular in a way, but in general either singly or together they seldom fail to be vulgar without being either funny or in-teresting, "We only know Mr. Gough by his results," observes The Ecclesiologist in a critique of his rebuilding of the old church of St. Pancras, "but these results justify us in asserting that we believe that in these days of architectural improvement, would have been difficult to find any other person who could have so completely succeeded in doing badly." Were they not Were they not happy days, because whether architecture had improved or not, critics were not bridled and enjoyed free speech.

Of Joseph Peacock's architectural beginnings I have no information, the first work of his that I know being the church of St. Simon that he built in 1859 in Upper Chelsea. And what a church that is. When it was built it stood to the south of the vast open space that then lay between the Brompton and the King's roads, and, although of modest size, must have seemed large in comparison with the little cottages of Moore Street which were its only near neighbours. I wonder if he had seen a church that Lamb had built ten years before at Prestwood in Buckinghamshire. If he had, he may have found there the germ of the strangest characteristic of his plan, the division of his nave into two parts, a high part at the east being flanked by high chapels filled with galleries, and a lower part at the west flanked by normal lean-to This produces internally a variety of arches differing in shape and size that is truly astonishing. On other bright ideas I must not linger, but I cannot resist just cataloguing some of them. Inside the there is a complete east window of church five lights richly traceried which has most of its openings filled with carved stone foliage so that only a few slits and holes get through to the outside, to make there an entirely disconnected appearance. Not many people would have thought of the shape chosen for the clerestory windows, and I doubt if anyone except Peacock could have thought of the shape of the stone screenwork that divides the aisles from the chapels. A contemporary description says that the pulpit staircase is "artful"; I am afraid I do not remember it, but I have no doubt that it is. Peacock seems to have been an architect chiefly of churches, and one favoured by the Low Church party in the Establishment. Mr. E. Bassett Keeling also built a good many churches no less extravagant architecturally than Peacock's, and all, I think, for the same party. Obviously, the two knew how to provide places of architectural entertainment for Sundays without either profanity or popery. But the place of entertainment that brought Bassett Keeling into public notice was of a very different kind from these. The place was the Strand Music Hall and the notice that it attracted was very unfavourable. I never thought of Mr. Sadleir's "Fanny by Gaslight" in Gothic surroundings, but I do not see why she should not have been, if the Gothic was designed by Keeling. The interior of the Strand Music Hall, as shown in his drawing, seems to me to have a raffish look that might account for its contemporary disapprobation were it not that the same look appears in his churches and there aroused no comment. There used to there aroused no comment. There used to be six of these in London. St. Paul's Stratford, is now burnt out, St. George's Campden Hill, has been much altered, but St. Mark, Notting Hill, remains, and, for all I know, so do Christ Church, Camberwell, St. Andrew, Peckham and St. Paul, Upper Norwood. I personally dislike look-ing at them very much, but I cannot defind the strength of my distaste on rational grounds. There is no question of their being beautiful, but they try very hard to be amusing and it may be my fault that they do not amuse me. In his later years Keeling conformed to more ordinary standards, built the City Liberal Club, a long dull range of offices in Victoria Street, and a large unsightly city restaurant, and passed from the field of this lecture. The mention I have just made of Victoria

Street is a convenient hinge on which to turn to the subject of my next portrait; since in Victoria Street stands a prominent and extraordinary building designed by the subject of that portrait, Mr. Frederick Pilkington. This building was, until recently, an hotel, the Hotel Windsor, but is now put to other uses. The size of its arched portal, its lower windows, and its rusticated quoins, is so enormous that one is not survived when over its teld the effort that the prised when one is told the story that the masons blindly followed drawings inscribed with a wrong scale until it was too late for Pilkington to stop them. No, I think it more than probable that Pilkington meant the building to be exactly as it is; its alarming character is very much what was to be expected of him it he were given ample material resources and a conspicuous site. Even had they been of normal size the details of the building would have been far from normal in character, in the work of anybody except Pilkington. Thanks to him, however, there is plenty of such stuff in London. His peculiar scrolls, acroteria, acroteria, and grooved ornaments were easily massproduced in reconstructed stone in which disgusting material (generally blood red in disgusting inaterial (generally blood red in colour) they are liberally spread over the many working class tenements built by a company for which he was architect. Now Pilkington's style raged fiercely, not only in tenements but in Scottick light style although in the style of Scottick light style o tish kirks, although in these the neo-Grecian character is replaced by neo-Gothic. In one of these, in a southern suburb in Edinburgh, he has created an architectural effect that seems to me really frightening, although I think that may not be the effect he intended. His last work was a long terrace of houses on Campden Hill in design both grim and dreary. He was a real nobody can mistake his work, and no other architect would wish, if he could no other architect would wish, if he could help it, to produce anything in the least like it. But he was very largely employed by his contemporaries and therefore cannot be completely neglected by any historian of his time.

Lethaby tells us that Norman Shaw once spoke in his hearing of Philip Webb as "a very able man indeed, but with a strong liking for the ugly." The same words might be truthfully spoken of Butterfield and, with qualifications, of Street; both of whom were more obviously the artistic ancestors of Webb than they were of Shaw. Edward Prior, a pupil of Norman Shaw, showed in his work constant egregiousness that makes it impossible to regard him as

a schoolman in any sense.
Prior, sometime Slade Professor at Cambridge and the writer of a good history of mediæval architecture in England, was not very prolific as an architect. The largest building of his that I know is the Medical Schools at Cambridge which makes a very disrespectful face at Sir Thomas Jackson's potted Renaissance on the opposite side of Downing Street. Henry Martyn Hall, also at Cambridge, though scarcely more characteristic, shows him in an engaging mood that pervades also the design of a thatched house that was called "The Barn" at Exmouth. The church that he built at Bothenhampton in Dorset begins to explain why I claim him as a rogue, and his mission church for Pembroke College, Cambridge, in Barlow Street, Walworth, gives me further support. The mission church is nothing, if not odd; an unkind critic might say that it is nothing but odd. What he could do in this way, when really roused, can be seen teristic, shows him in an engaging mood that this way, when really roused, can be seen in the Music School at Harrow. There is nothing either before or since quite like that. His later designs became bleaker and bleaker, containing classical elements handled in a way that at any rate showed them who was master at the moment.

INFORMATION CENTRE · INFORMATION SHEETS QUESTIONS AND ANSWERS · CURRENT TECHNIQUE

THE INDUSTRY · PRICES · TECHNICAL ARTICLES

TECHNICAL SECTION

PRE-STRESSED CONCRETE

A recent conference* and the present exhibition at the Institution of Civil Engineers are indications of the great interest that engineers in this country now take in pre-stressed concrete. The idea of pre-stressed concrete is not new but its practical application is of comparatively recent origin. It was due to the ingenuity of the French engineer E. Freyssinet that the use of pre-stressed concrete was started in France in the early thirties, and by the outbreak of the second World War it had already been also adopted in Germany on a large scale. The shortage of steel created by the war was perhaps the chief cause of the development being speeded up in many other countries, particularly in Belgium, Sweden and Switzerland. In this country progress so far has been rather slow, but it seems that the psychological resistance to this new idea is now overcome, as may be seen from frequent references to this subject in Information Centre. The first applications were mainly in structures of comparatively little interest to architects (a tunnel under River Ribble near Preston, a few road bridges over railways, railway sleepers, etc.). After the war the MOW took the initiative and established a Field Test Unit at the Thatched Barn on the Barnet By-Pass with the purpose of helping the building industry in the introduction of this new form of construction. As a result of the support of the MOW, several firms have built factories where pre-stressed concrete products of a great variety (floor and roof beams, components of rigid frames, poles, etc.) are now being produced.

The advantages of pre-stressed concrete are manifold. From the point of view of the national economy, its most important feature is the great saving in steel. The steel consumption of a pre-stressed concrete structure is about 20 to 25 per cent. of that of a corresponding structure in ordinary reinforced concrete.

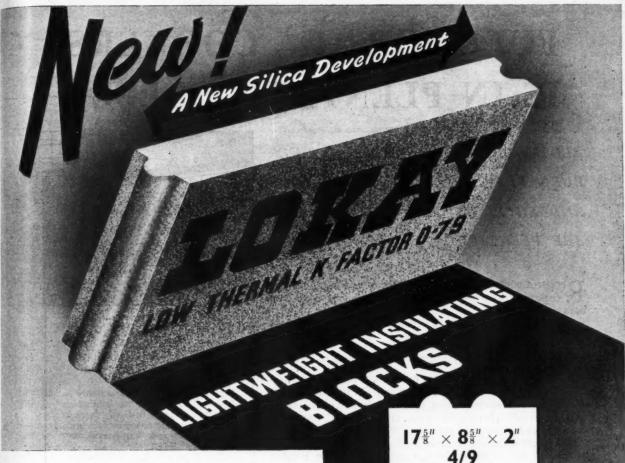
This great saving is achieved by the use of a reinforcing material of very high tensile strength (100 tons per sq. in. or even more), which cannot be utilized in concrete without being pre-stressed.

The essence of pre-stressed concrete is the creation of compressive stresses in the concrete by artificial means, independently of the loading, in such a manner that tensile stresses in the concrete are either entirely excluded or limited to a value at which the width of cracks is harmless.

In ordinary reinforced concrete, cracks cannot be avoided and if, owing to bad workmanship or excessive loading, their widths exceed a certain limit, the steel is exposed to corrosion. This danger is safely eliminated in pre-stressed concrete, which is, therefore, the ideal form of construction in many cases where ordinary reinforced concrete can only be adopted with special precautions or not at all. In normal buildings, the main advantage of pre-stressed concrete, from the architect's point of view, is the possible reduction of the size of the structural members, accompanied by a corresponding reduction of dead weight. This is of particular importance in large-span structures, where pre-stressed concrete can compete with structural steel. A remarkable property of pre-stressed concrete is its extraordinary resilience, which is of great value in poles.

The exhibition at the ICE is an impressive demonstration of the progress recently made in this country and should convince architects that pre-stressed concrete has now become a commercial product for which alternative sources of supply are available.

Arranged by the Joint Committee on Materials and their Testing of Technical Institutions and Societies in Great Britain, held on February 16, 1949. This will be reviewed in Information Centre.



N absolutely new development LOKAY is now, for the first time, available. Whitish in appearance LOKAY takes plaster well. Made of a non-combustible mineral base, it is predominately a calcium silicate and cement. After setting, it is HIGH PRESSURE STEAM CURED which controls the Moisture Movement. There is, therefore, NO CRACKING of applied surfaces and can be sawn, drilled or chased.

An excellent replacement for Pumice, Foamed Slag, Wood Wool, etc., LOKAY has already been chosen for the lining walls of two large Housing schemes in London. It is lower in cost but higher in insulation.



DENSITY 50lb. per foot cube. COMPRESSIVE Dry Test 336lb.
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MOVEMENT Tested after 24 hours immersion in water

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 $17^{5''}_8 \times 8^{5''}_8 \times 4^{1''}_4$ 10/sq. yard.

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FUEL FOR AGA COOKERS IS IN PLENTIFUL SUPPLY

ALL MODELS OF THE AGA COOKER
BURN EFFICIENTLY ON COKE...
AND SUPPLIES OF DOMESTIC COKE
ARE PLENTIFUL

RECENT REPORTS about difficulty in obtaining suitable fuel for cookers of slow combustion or heat conserving types have been misleading.

Aga owners and prospective purchasers should not be concerned by these reports — the Aga burns coke!

THE AGA DESIGNED FOR COKE

In fact, all models of the Aga cooker have been designed specifically to burn coke—the cooker and water heater models for a minimum of 10 hours unattended, other models for a longer period.

Domestic coke is in plentiful supply. One ton of this fuel will last as long in an Aga as a ton of anthracite, and costs considerably less.

The special design and construction from high-duty chrome iron of the Aga firebox makes the Aga cooker suitable for burning all qualities of domestic coke of the correct size.

Many present Aga owners know from their own experience that coke is an efficient fuel for the Aga.

The Aga was designed, originally, in Sweden to burn coke.

With no natural coal resources of their own, the Swedes have always imported their fuel and they have always used coke for Aga cookers.

AUSTRALIANS USE COKE

The steady and increasing demand for Aga cookers in overseas markets substantiates still further the efficient performance of these cookers when fuelled with coke. In most of these countries, coke is the only available fuel.

In Australia, one of the best Aga export markets, Aga owners get satisfactory performance using coke even of inferior qualities. The increase in sales demands for the Aga proves further its success with this final

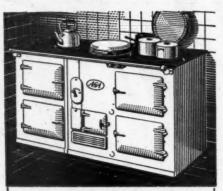
NO HARDSHIP FOR AGA OWNERS

It is in national interests that export demands for anthracite should be satisfied.

The export of this fuel, however, need not cause any hardship to present or prospective Aga owners.

Both in this country and abroad, the reputation of the Aga for efficiency and economy has been established by its performance as a coke-burning cooker.

The Aga saves fuel for the householder and the nation.



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This is the Aga Model B Cooker for the larger household. Its guaranteed maximum fuel consumption per year it 3 tons using COKB or "Phurnacite".

ALL AGA MODELS BURN COKE

Night and day, the Aga is ready to cook. Using coke, its continuous burning fire needs fuel only twice in 24 hours, or 3 times for cookers with water heater and the heavy duty models.

Coke is the most economical smokeless fuel for all Aga models. It costs 20% less than anthracite. Any quality of the correct size is effective fuel for both domestic and heavy duty models in use in schools, hotels, hospitals, etc.

Domestic Aga models are priced from £85 to £115.



This is the Aga Model CB Cooker and Water Heater for the medium size family. Its guaranteed maximum fuel consumption per year is 3\(\frac{1}{2}\) tons using COKE or "Phurnacite".

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(Proprietors: ALLIED TRONFOUNDERS LTD.)

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.

INFORMATION CENTRE

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6.21 planning: social and recreational NATIONAL TRUST BUILDINGS

National Trust Guide: Buildings. J. Lees-Milne. (B. T. Batsford, Ltd., 1948. 7s. 6d.) Concise guide book to selected historic buildings belonging to National Trust. Illustrated by S. R. Badmin.

In a foreword it is stated that the book covers only those properties of historic buildings "which deserve at the moment a special visit..." The information provided is arranged under counties. Notes on each building give location and procedure for admission followed by a short historical sketch and a description of the property. These descriptions are quite informative though not very detailed as for the more important buildings individual guide books are obtainable. Notes on past owners give an interesting picture of English social history.

18.22 construction: theory STEEL FRAMES

A Review of Recent Investigations into the Behaviour of Steel Frames in the Plastic Range. J. F. Baker. With discussion. (Journal of the Inst. of Civil Engineers, Jan., 1949, pp. 188-240.)

Generalized plastic theory for the design of statically indeterminate structures based on several series of tests. Bibliography.

This important paper deals with the be-haviour of statically indeterminate systems such as portal frames with hinged and with fixed supports, etc.) in the plastic range. It shows that, if two beams in a structure, one simply supported and one encastré are designed by the orthodox working stress method (e.g., according to B.S.449), then the latter will be capable of carrying one-third more load before collapse than the former. For static loads, where strength is the design criterion, this is indefensible. Also the collapse load of a portal can be estimated much more accurately and simply than any similar information can be obtained using the elastic theory. The inevitable practical imperfectheory. The inevitable practical imperfec-tions, such as slight sinking and rotation of the supports, do not complicate the plastic

The experiments referred to in the paper show that present methods of the design for the stanchions in rigidly jointed structures are extravagant.

19.61 construction : details

JOINTLESS PRE-STRESSED FLOOR

Jointless Prestressed Floor Resists Heav Loads in Warehouse. (Eng. News-Record, [USA], Jan. 6, 1949, pp. 68-9.)

Jointless pre-stressed concrete floor, cast on the ground, covering 96 × 144 ft., subjected to heavy wheel pressures has shown no signs of cracking after 28 months of

This floor was built in a warehouse as an Inis floor was built in a warehouse as an experiment, preliminary to a trial adaptation of pre-stressed concrete to highways and airplane runways. The slab must withstand a wheel pressure of 1,000 lb./sq. in. plus impact. To distribute the pressures to the subfloor, the 3 in. thick pre-stressed slab was cast on a 9 in, thick un-reinforced concrete base, which was provided with a smooth finish. In addition, a 1/32 in film of paraffin was applied to the upper surface of the lower slab to ensure a low coefficient of friction. Over the paraffin was placed a layer of copper coated building paper with the copper surface down.

The slab was pre-stressed in two directions. The reinforcing rods were placed in paraffin paper tubes to prevent bond with the concrete. The article describes details of the method of pre-stressing and design considera-

20.113 construction: complete structures R. CONCRETE BRIDGES

The Sandö and Klockestrand Bridges. (Concrete & Constructional Eng., Jan., 1949, pp. 29-34.)

Details of two large reinforced concrete bridges recently completed in Sweden.

The Sandö bridge over the Angerman The Sando bridge over the Angerman river is the largest span concrete arch in the world. (See No. 2483:11.4.46.) The article contains data of design, an account of the reasons for the failure of the first centering in 1939 and details of the second

The Klockestrand bridge is a cantilevered girder bridge with a central span of 234 ft. 7 in., where pre-stressed ties not embedded in the concrete, were used. These ties induced in the concrete a pre-compression of 1,070 tons.

22,30 acoustics CONCERT HALLS

Concert Hall Acoustics. H. Bagenal (RIBA Journal, December, 1948, p. 70, with discussion, January, 1949, p. 126.)

Criteria-loudness, definition and tone; plan forms discussed; linings; tuning the hall orchestral requirements; methods of study. This is now the best available reference on concert hall acoustics. 7. pp. 11.

We are accustomed to acoustics as a study of reverberation. In the Post-War Building Study (No. 14) on acoustics, we were introduced to the idea of reverberation as a factor secondary to the initial sound. Now we find the new balance full-blown and sense a sharper and more definite impact on design, though the best plan form—if there is a best—is not yet fully agreed. So far as one can discover, the balance seems to be falling on the side of the rectangular hall, for concert music conditions. A suggestion for a circular hall received much criticism. You can sense in this discussion the desire to prolong, rather than reduce, the reverberation time. Contributions to the discussion were made

by many distinguished musicians, critics and investigators, and the representation of views is by all odds the best ever obtained.

23.94 heating and ventilation **ELECTRIC HEATING: DOMESTIC**

Installation of Domestic Electric Space Heating Equipment. BS C of P 324.201:1948. (British Standards Institution, 2s.)

Types of heater. Some guidance as to computation of size and brief notes on other

This code is intended to assist in the choice and installation of electric heaters. Naturally it does not assist in deciding between electric and other methods of heating though, in fact, this is often the difficult decision to make. There is a brief description of the various types of electric heating and some moderately useful data on computation of power requirements. It may noted that this code appears to accept without question the idea of background heating plus topping up, although this is by no means generally accepted as an ideal answer to domestic heating requirements.

There are short notes on positioning of heater, and on precautions to be taken against fire.

26.47 services and equipment : miscellaneous **ELECTRICAL INSTALLATIONS**

Electrical Installations General. BS C of P 321:1948. (British Standards Institution,

Of more value to engineer than architect. Deals with fundamental principles applicable. in common to all classes of electrical installations and is complementary to various codes which deal with particular aspects of installation practice.

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.I.

QUESTIONS AND ANSWERS

2982 SELLING PRICE OF HOUSE

Q I am the owner of a house built under licence for £1,300. Although the house was built for me, the licence bears the builder's name, as at that time he owned the land. Only during the progress of building was the house and land conveyed to me. Under these circumstances am I free to sell for any amount I may be offered for the house?

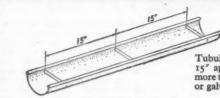
If the answer is that I must sell for £1,300,

am I entitled to add anything for garden improvements, and how much would this

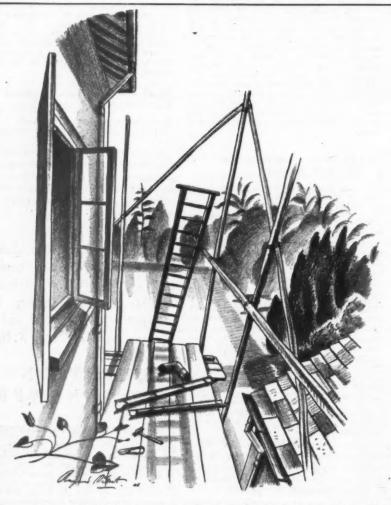
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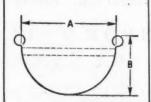
A The house was built for you as owner of the land and the licence was, in effect, granted to the builder as your agent and on your behalf. The restriction would, we think, bind you. As to whether there is any chance of getting permission to sell at a better price, to cover improvements, some alterations in the 1945 Act imposing the restrictions are contemplated in the new Housing Bill, just introduced into Parliament. It would be as well to wait for this Bill to become law before taking any definite step. taking any definite step.

HALF ROUND ZINC GUTTERS



Tubular zinc stays are spaced at not more than 15" apart. Gutters are supported at centres not more than 2' 6" apart by galvanized steel brackets or galvanized screws fixed through stays.





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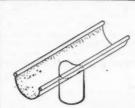
ty] ar w

Gutters are made in standard lengths of 6', 7' and 8' and in four sizes as follows:—

A	3"	4"	41"	5"	
В	17"	21"	21	3"	



Alternative beads — halfround gutters are sometimes finished at the back with a simple welt and not a bead.



Outlets — the nozzle should fit at least 2" into the top of the rainwater pipe. At least one outlet is needed for every 30' length of gutter. Gutters should have a fall at least \(\frac{1}{2} \) in 30'.

Zinc gutters are suitable for draining all but copper roofs. They are light and easy to handle; and if made of sheet not thinner than No. 12 zinc gauge (23 I.S.W.G.) they are strong and have a maintenance free life of at least 40 years, or for ever, if painted. Various patterns are used and this sheet shows a half-round gutter of standard dimensions conforming to British Standard 1431: 1948. Stop-ends,

outlets, mitred corners, etc., can be bought ready made but are better when specially made on the site or in a workshop. Ogee and rectangular gutters of standard dimensions can also be had. Further information on gutters and rainwater pipes and on other uses of zinc in building can be had from the Association together with a list of publications on request.

ZINC DEVELOPMENT ASSOCIATION

LINCOLN HOUSE, TURL STREET, OXFORD TELEPHONE OXFORD 47988



BUILDING in the group, showed a compensating reduction in price. MATERIALS' PRICES

By Ian Bowen

THE INDEX IN 1949

The index of materials' prices stood at 212.4 (1939 = 100) in February, 1949. It thus was 3.2 points (about 1½ per cent.) above the level of the corresponding quarter above the level of the corresponding quarter in 1948. It had risen 1.7 points since the fourth quarter of 1948, which in turn stood 2.8 points higher than the previous quarter's figure. Thus the index continued on its upward course. As shown by the graph, the flattening-out of the curve in the middle of 1948 had ended.

		TABLE I	Number of point
1945	Qr. 3	 101 0	increase on
1946	Qr. 1	 170.2 175.8	+ 3.4 + 2.5 + 5.6 + 4.9
1947	Qr. 1	 197.2 200.7	$\begin{array}{c} + 2.8 \\ + 13.7 \\ + 3.5 \\ + 5.3 \end{array}$
1948	Qr. 1	 208.3 207.9	+ 3.2 - 0.9 - 0.4 + 2.8
1949	Qr. 1	 212.4	+ 1.7

The rise in the index between November, 1948, and February, 1949, can hardly be described as a general rise in prices, since there was no change in 34 of the 44 quotations used in the construction of the index.

Of the remainder, four quotations showed a slight decline. The rise in the index was due to rises in the remaining six price quotations.

The items which fell in price were certain types of patent plaster, heavy or steam tubes and bends, and ceiling distemper. Those which rose in price were plasterboard (+ 2.7 per cent.), lead piping (+ 8.9 per cent.) cent.), galvanized corrugated roofing sheets (+ 8 per cent), white lead (+ 6 per cent.), and cold and hot water tanks (+ 5.4 per

TYPES OF MATERIALS AFFECTED

Movements in the four groups of building materials (on a base 1945 = 100) are shown in the following table:—

			TABLE	II		
		Group	Group	Group	Group	Average of all materials
1947	Qr. 2	 175.5	127.3	125.1	100.8	121.5
	,, 3		129.3		102.6	123.6
	,, 4	 175.6	144.5	131.9	105.4	128.3
1948	Qr. 1	 176.7	145.9	134.0	107.9	130.4
	22 2	 175.6	142.1	133.8	107.9	129.8
	,, 8	 175.6	142.3	133.8	107.3	129.6
	,, 4	 184.8	144.4	133.8	107.4	131.4
1949	Qr. 1	 190.1	145.9	133.8	107.4	132.5

Groups III and IV ("quarried" and "primary" materials) did not alter in price in the figure for the first quarter of 1949 (i.e., up to the middle of that quarter). The whole of the rise in the index was due to items (five of the six already mentioned) which have to be classed as either

which have to be classed as either "imported" or "metal" materials.

The sixth material that rose, plasterboard, is included in "primary" materials. The reason that the index number for this group remained at 107.4 (1945 = 100) was the the equatories for material plasters also that the quotation for patent plasters, also

IMPORTS AND PRICE POLICY

It is perhaps interesting to note that the chief the source of renewed upward pressure on materials' prices still seems to have been coming from imports. As a result, authorized prices for lead sheet and piping were raised by 22 per cent, in oping were raised by 22 per cent, in October, 1948, and by a further 11 per cent. on January 1, 1949. Copper cylinders and boilers, galvanized tanks, and galvanized steel rainwater goods all received authorized increase in October or December, 1948. All these increases were conceded after cost investigations had been made by the concern. investigations had been made by the appropriate Government department (in these cases it is the Ministry of Works).

A turning-point is hardly to be expected until the world prices of lead and other metals begin to decline. Re-armament in America, and especially the "stockpiling" policy, has helped to support them; but the easing in certain raw materials' prices does suggest that a slight reduction in the dollar demand for basic commodities would soon be followed by substantial reductions in price. Provided that re-armament is not

price. Provided that re-armament is not violently speeded up, some relief may be hoped for in 1949.

On the other hand, certain authorized price increases (the 20 per cent increase in certain plasters from January 1, 1949) have not affected the index, which to that extent undersetimates the property tendents.

underestimates the upward tendency.
Full details of the cost investigations carried out by the Ministry of Works have not been published, but from answers given in Parliament it would appear that, in 1948, while in Parliament it would appear that, in 1948, while some eight commodities were allowed to rise, prices in 34 other instances were reduced after discussions between the Ministry of Works and the industrial interests concerned. These mainly represent reductions in the margins of distributors, not changes in manufacturing cost.

The case for not publishing the exact details of negotiations on all these reductions may be a good one; after all, the object of policy is to bring prices down, not to make anyone's face red.

The Monopoly Commission is said to have on its agenda the early investigation of

have on its agenda the early investigation of certain building materials. If it can be as successful as the Simon Committee in sketching out the facts, and as the Palmer Committee in acting on the facts, the Committee in acting on the facts, the flattening-out of the index may shortly re-

appear.

There must, of course, be some limit to the squeezing of the distributors' margins; but it is very far from clear that that limit

has yet been reached.

MANUFACTURING COSTS

All available statistical studies of costs in cement and other heavy building materials" industries have suggested that productivity, and costs, vary considerably, for given firms, according to how far they run near to full capacity. The difference between running at 60 per cent. and 90 per cent. of capacity may

of 25 per cent. or 35 per cent.

At the beginning of the post-war building programme the materials' industries were building up their labour forces again, opening up somewhat marginal plants, re-establishing their selling organizations and incurring other special costs due to renewed expansion. Since that time, especially in 1947, their costs rose as a result of "rounds" of wage increases and the rise in fuel costs. In 1948 all these difficulties were much less; but changes in the size of the capital pro-gramme introduced a new element of uncertainty in their plans for capital re-equipment. Owing to the economies of larger produc-tion, the "primary" industries have indeed managed to prevent their selling prices from rising at all commensurately with the rise

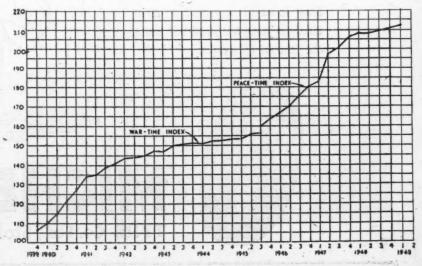
in wages rates or fuel prices. But now even the uncertainty question seems likely to recede into the background. Always provided that Marshall aid is forthcoming, the British economy looks set fair for a regular capital investment output of the order of £2,000 million a year at cur-rent prices. This means that the construc-tional industries can plan to run near capacity for at least three more years, and with any luck much longer than that. This is perhaps the longest period ahead that they have ever been able to plan. The only danger is of an economic upheaval engendered by a

war or by an overseas slump.

In these circumstances productivity should rise, and costs decline. There is not really much excuse for prices being maintained for the sole purpose of maximizing the monopoly revenue of some of the industries concerned. The State might consider a special "monopoly tax" designed to skim off the profits earned in the situation that has been described, and to provide a fund that could be used on constructional outlay in less fortunate times. The alternative is to direct that prices should be reduced. Either course is open to difficulties; and better than either would be a voluntary reduction of price by the chief manufacturing industries.

MATERIALS' PRICES AND BUILDING POLICY

Several recent White Papers have indicated that new housing work is to continue at about 16 per cent. of net new investment.



Graph showing price index from 1939 to the present.

This means an expenditure, at current prices, of some £250 millions a year, or rather less than 200,000 permanent houses begun and finished. The real question is not whether this target can be achieved, but whether it is not much too low. In the

Government may see fit to raise the target.

Any raising of the target would postpone the final removal of licensing. But it is doubtful, in any case, whether any Govern-ment could completely relinquish its control over the starting of major new works, as over the starting of major new works, as long as there is an investment problem to be faced. A complete removal of all licensing is at any rate not probable till 1952 or 1953. Even the present lightening of the restrictions may drain an enormous proportion of building labour and material on to small works of less social, or on a broad view, economic, importance than large works still waiting in the queue.

One test of the licensing—or de-licensing

One test of the licensing—or de-licensing—policy will be the building materials' supply position, and movements in materials' position, and prices. A really grossly excess demand for building would bid up materials' prices, or drive materials into black market channels. Control (even if by voluntary agreement) both of the prices and to some extent of the supply of materials will, indeed, need to be continued as the building licensing system is gradually abandoned. Otherwise each act of de-control of building would soon be followed by a disappearance of important materials from the normal market.

Announcements

The Board of Directors of James Booth & Company, Limited, Birmingham, have decided to recommend a dividend of 20 per cent., less tax, on the ordinary shares

for the year ended December 31, 1948. The annual general meeting of the company will be held on April 5.

Mr. Winston B. Lilley, A.A.B.S., and Mr. John F. G. Mack, A.I.A.S., have entered into partnership. The firm will in future practise under the name of Winston B. Lilley & Partners, Building & Quantity Surveyors. The head office will be situated at No. 1, Victoria Street, Westminster, S.W.I, where they will be pleased to receive trade catalogues, price lists and to receive trade catalogues, price lists and literature.

Buildings Illustrated

House at Bethersden, near Ashford, Kent. (Pages 273/274). Architect: A. L. Osborne, F.R.I.B.A. General contractors: W. H. Colt, Son & Co. Ltd. Sub-contractors: Damp-courses, Standard Bitumastic; concrete blocks, H. J. Baldwins; tiles by Carters; standard glazing, Olby; cork floors, Cork Insulation Co.; stoves, Aga Heat Ltd.; electric wiring, Messrs. Jones; plumbing, Messrs. Heritage; standard metal windows, Messrs. James; textiles and furniture, Ernest Race; wallpapers, John Line and Arthur Sanderson.

Factory at Iver (pages 275-277). Architects: Adie, Button & Partners. General contractors: Holland & Hannen and Cubitts. Sub-contractors: heating and electrical installation, Engineering Service Installations, Ltd.; vertical patent glazing and standard sashes, Williams & Williams; roller shutters and sliding doors, Haskins. Ltd.; internal plumbing, S. Roberts; barrel vault concrete roof, Twisteel Reinforcement Ltd.

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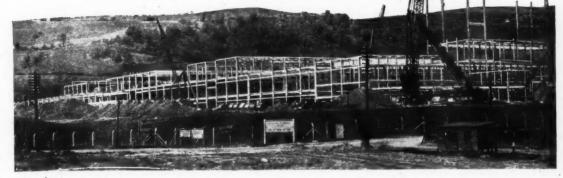
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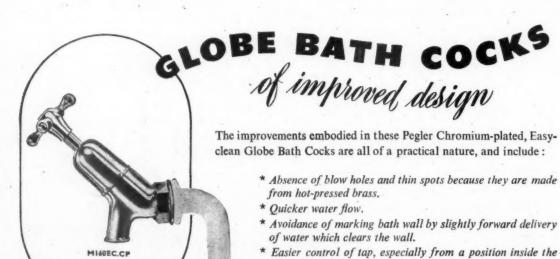
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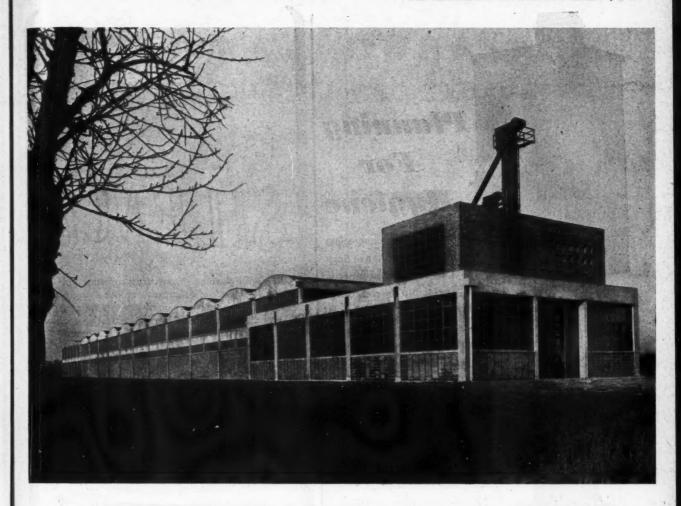


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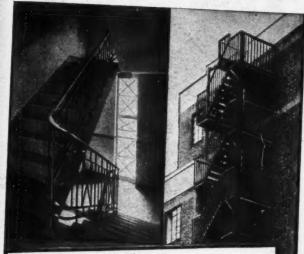


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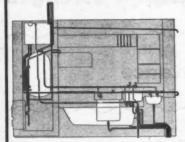
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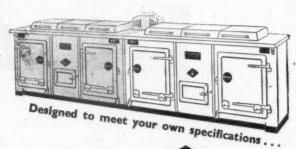


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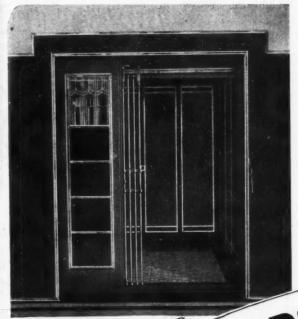
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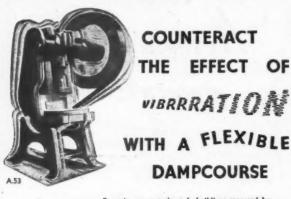


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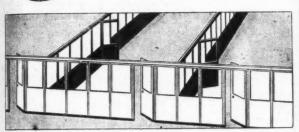
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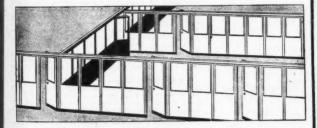
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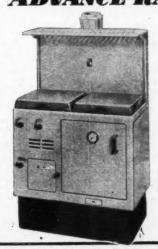


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ARCHITECT.

Applications are invited for the appointment of a Senior Assistant Architect at a salary in accordance with Grade A.P.T. VI of the National Scales. commencing at £995 per annum, rising to £660 per annum. Housing accommodation will be made available, if required.

Candidates should be Associates of the R.I.B.A., and must have had a thorough training and experience in Architectural work. Preference will be given to applicants who have had experience in Municipal Housing.

The post will be subject to the provisions of the Local Government Superannation Act, 1937, and the National Conditions of Service, and the successful candidate will be required to pass a medical examination.

Applications, stating age, experience and qualifications and accompanied by a copy of a recent testimonial, and giving the names, etc. of two referees, should reach the undersigned not later than Thursday, 31st March, 1949.

WALTER ISAAC.

Town Hall, Macclesfield. 8th March, 1949.

ESSEX COUNTY COUNCIL.
COUNTY PLANNING DEPARTMENT.
The Essex County Council invite applications or the following appointments on the established staff of the County Planning Department.

ent:—
(a) TWO PLANNING ASSISTANTS, at a slary not exceeding the maximum for Grade VI.
P.T.D. (£660 per annum), at Leytonstone and

salary not exceeding the maximum for Grade VI.
A.P.T.D. (£660 per annum), at Leytonstone and Chelmsford.

(b) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade V.
A.P.T.D. (£570 per annum), at Leytonstone, Romford and Chelmsford.

(c) PLANNING ASSISTANT, at a salary not exceeding the maximum for Grade IV, A.P.T.D.

(£852 per annum), at Braintree.

(d) FIVE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£495 per annum), at Broomfield, Romford and Chelmsford.

(e) THREE PLANNING ASSISTANTS, at a salary not exceeding the maximum for Grade III, A.P.T.D. (£465 per annum), at Broomford, Braintree and Colchester.

The salary in each case will be fixed in accordance with the qualifications and experience of the applicant appointed, but will not exceed the maximum salary for the post concerned as stated above.

Caredidates for post (a) must, he Corporate

above.

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

additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for post (b) must have passed the Intermediate examination of the Town Planning Institute, or an equivalent examination. Preference will be given to applicants who are Corporate Members of the Town Planning Institute or who possess an additional professional qualification to that stipulated. Previous planning experience in a County Planning Department will be an advantage.

Candidates for posts (c) and (d) should have had good general experience in a planning office with regard to development control and basic survey. Preference will be given to candidates who have passed the Intermediate examination of the Town Planning Institute or some other recognized professional institution.

Candidates for post (e) should have had good general experience in a planning effice with regard to development control and basic survey or should have passed the Intermediate examination of the Town Planning Institute or some other recognized professional institution.

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

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

Canvassing, directly or indirectly, will disquality.

Applications must be made on a form to be obtained from the County Planning Adviser,

Canvassing, discovery qualify.

Applications must be made on a form to be obtained from the County Planning Adviser, Broomfield Place, Chelmsford, to whom they should be returned as soon as possible.

JOHN E. LIGHTBURN, Clerk to the County Council.

Clerk to the County Council.

2093

NEWCASTLE-UPON-TYNE REGIONAL

HOSPITAL BOARD.

Applications are invited for the undermentioned appointments in the Architect's Section of the Board's Headquarters Staff.

SENIOR LAND AND BUILDINGS

SURVEYOR.

Salary Scale, Grade A.P.T., VII, £635 to £685.
Candidates should be experienced in preparing architectural measured drawings of existing buildings, surveying and levelling sites, the acquisition of sites, and should possess some experience of the law relating to land and property. Preference will be given to persons who are members of the R.I.C.S. (Building Section) or who have similar qualifications.

JUNIOR LAND AND BUILDINGS

SURVEYOR.

Salary Scale Grade A.P.T. IV, £480 to £525.
Candidates should be experienced in surveying sites and buildings, and be capable of assisting the Senior Land Surveyor. Preference will be given to persons possessing suitable recognised qualifications.

The successful applicants will form a team of which the initial major responsibility will be the making of a survey of all hospital sites and buildings in the Region and the preparation of folios of up-to-date record plans.

The appointments are subject to the National Health Service Superannuation Regulations, 1947, and the successful candidates will be required to pass a medical examination.

Applications stating age, qualifications, past and present appointments, war service, present salary, and details of experience, together with the names of three referees, should be forwarded to the Secretary, "Dunira," Osborne Road, Newcastle-upon-Tyne, 2, not later than Thursday, 14th April, 1949.

Canvassing in any form will be a disqualification.

CROWN AGENTS FOR THE COLONIES. Applications from qualified candidates are invited for the following post:—
ARCHITECTURAL DRAUGHTSMAN required by Government of British Somaliland for four of 12-18 months in first instance. Commencing salary according to experience and qualifications in the scale £640×£20—£200 per annum. No income tax. Free passages. Liberal leave. Candidates should have had at least 5 years or perience in an Architects' office. Professional qualifications and knowledge of town planning advantages, Apply at once by letter, stating age, whether married or single, and full particulars of qualifications and experience, and mentioning this paper, to the Crown Agents for the Colonies, 4, Millbank, London, S.W.I., quoting M/N/2419/5D, on both letter and envelope. 212

LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments on the permanent staff:

(a) SENIOR ASSISTANT LAND SURVEYORS AND VALUERS, GRADE VI. Salary £635 to £500. Candidates must have a wide experience in surveying, valuation and negotiating.

(b) ASSISTANT LAND SURVEYORS AND VALUERS, GRADE VI. Salary £656 to £660. Candidates must have a wide experience in surveying, valuation and negotiating.

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

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be retarned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 25th March. 1949.

R. H. ADCOCK, Clerk of the County Offices,

R. H. ADCOCK, Clerk of the County Council.

County Offices, Preston.

COUNTY BOROUGH OF HUDDERSFIELD.
BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for the following

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

(a) THREE ASSISTANT ARCHITECTS, Grade VI (£559—£660).

(b) ONE ARCHITECTURAL ASSISTANT, Grade V (£520—£570).

(c) ONE ARCHITECTURAL ASSISTANT, Grade I (£390—£435).

(d) ONE ASSISTANT QUANTITY SURVEYOR, Grade VI (£480—£550).

(e) ONE ASSISTANT QUANTITY SURVEYOR, Grade IV (£480—£550).

(f) ONE TOWN PLANNING ASSISTANT, Grade II (£420—£455).

For appointments (a) and (b) 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 appointment (c) candidates should have received a recognised architectural training and be neat and expeditions draughtsmen with a sound knowledge of construction; for appointments (d) and (e) candidates should have had considerable experience in the preparation of Bills of Quantities, Specifications, and Estimates, and the settlement of Final Accounts; for appointment (f) interim development experience in a Planning Office is necessary. Housing accommodation will be made available for certain of the appointments and candidates are requested to state in their application if they wish to be provided with such accommediation.

dation.

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 Superannation Act, 1937, and the successful applicants will be required to pass a section.

successful applicants will be required agreed agreed agreed applications, suitably endorsed, giving agreed applications, 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 28th March, 1949.

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

HARRY BANN,

Town Clerk.

Town Hall, Huddersfield.

Huddersfield.

SOUTHERN ELECTRICITY BOARD.

No. 1 (SOUTHALL) SUB-AREA.

APPOINTMENT OF QUANTITY SURVEYOR.

Applications are invited for the position of
Quantity Surveyor at Sub-Area Engineering Readquarters, at Waterloo Road, Uxbridge, at a salary
of 490 per annum, which is provisional and
subject to adjustment by the appropriate
negotiating machinery.

Candidates must be fully experienced in the
writing of specifications, the working up and preparation of Bills of Quantities for Industrial type
buildines, Showrooms and Offices, and be capable
of setting Contractors' accounts and preparing
preliminary estimates for projected schemes.

Applications, on the prescribed form obtainable
from the Administrative Officer, Southern Electricity Board, 2/6, Windmill Lane, Southall, should
be sent so as to reach there not later than 14 days
after the publication of this notice.

F. W. KEMPTON,
Secretary.

2146

THE NORTH OF SCOTLAND COLLEGE OF AGRICULTURE.

The Governors invite applications for the post of ASSISTANT ADVISORY OFFICER in the Farm Buildings Department (Office at Craibstone). This Department advises on all matters pertaining to farm buildings, carries out the investigation of problems and studies new developments and techniques. While preference will be given to candidates who have passed the qualitying examination for A.R.I.B.A. or its equivalent, due consideration will be given to those who have had a sound practical training and experience in this field.

Salary scale: £470 to £760.

The post will be superannable.

Forms of application, which may be obtained from the undersigned, must be lodged by 9th April, 1949.

JOHN L. INNES,

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JOHN L. INNES, Secretary. 2146

JOHN L. INNES,
Secretary.
2146, Union Street, Aberdeen.
2146
HERTFORDSHIRE COUNTY COUNCIL.
COUNTY ABCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) SENIOR ASSISTANT ARCHITECTS.
(b) ASSISTANT ARCHITECTS.
(c) ASSISTANT ARCHITECTS.
(d) SENIOR QUANTITY SURVEYORS. Grade VI, £595-£660.
(e) ASSISTANT OHANDER.

(c) ASSISTANT ARCHITECTS. Grade II, 240.2465.
(d) SENIOR QUANTITY SURVEYORS. Grade VI, £59-£660.
(e) ASSISTANT QUANTITY SURVEYORS. Grade VE, £50-£50.
(f) ASSISTANT ELECTRICAL ENGINEER. Grade VE, £50-£55.
One of the appointments under (c) is for an Architect or Surveyor experienced in Land and Building surveying.
Candidates for (f) must be competent to prepare schemes of lighting and power for new schools and other county buildings.
Applicants need not have had previous Local Government experience.
Applications, stating which post is applied for, together with three references, should be addressed to the County Architect, County Hall, Hertford, to be received not later than the first post on Saturday, the 9th April, 1949.
2145
Amended Advertisement.
BOROUGH OF BACUP.
CHIEF ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Chief Architectural Assistant in the Office of the Borough Engineer and Surveyor.
Applicants must have had sound training by pupilage and had previous experience in the design and construction of building works, paricularly in relation to housing. Preference will be given to persons qualified by the examination of the R.I.B.A.
The salary will be in accordance with Grade IV, A.P. and T. Division of the National Scales of Salaries (£480-£15-£425 per annum).
The appointment will be subject to one month's notice in writing on either side at any time, to the provisions of the Local Government Superannuation Act, 1937, and the National Joint Council's Scheme of Conditions of Service, and to the selected candidate passing a medical examination.

to the selected candidate passing animation.

Housing accommodation will be found by the Council for the successful candidate, if a married man and coming from outside the Borough.

Applications, stating age, qualifications, past and present appointments, with details of experience, together with copies of two recent testimonials, should be sent to the undersigned not later than Saturday, 9th April, 1949.

C. G. EVERATT,

Town Clerk.

Municipal Offices, Bacup.

15th March, 1949.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.
ARCHITECT'S DEPARTMENT.
OUANTITY SURVEYORS urgently required in the following grades:—2590-2435; 2430-2465; 2450-2455; 2430-2525; 2520-2570; 2550-2510; 2595-2660; 2635-2710; 2636-276 will be subject to the provisions of the Local Government Superannaation Act, 1937, as amended by the W.R.C.C. General Powers Act, 1948, and to medical examination.
Applications, on forms to be obtained from this office, must reach me not later than 2nd April, 1949.

HUBERT BENNETT, F.R.I.B.A.

HUBERT BENNETT, F.R.I.B.A..
County Architect County Hall, Wakefield.

County Hall, Wakefield.

CITY OF GLOUCESTER.

CITY OF GLOUCESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of an ASSISTANT ARCHITECT. Salary A.P.T.,

Grade V (£520-£570 per annum).

Apolicants should be Associate Members of the R.I.B.A. and have had experience in the design and supervision of construction of new buildings.

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

Housing accommodation will be made available.

Applications stating age, training, qualifications, experience, previous appointments and present position, together with copies of not more than three recent testimonials, should reach the undersigned not later than Thursday, the 7th April, 1949.

A. MORGAN, L.R.I.B.A..
City Architect.
Suffolk House. Greyfriars, Gloucester. 2138

Applications are invited for filling vacancies in as South-Eastern Regional Office at Tunbridge

Applications are invited for filling vacancies in the South-Eastern Regional Office at Tunbridge Wells.

MINISTRY OF WORKS-DIRECTORATE OF WORKS-DIRECTORATE OF WORKS-DIRECTORATE OF WORKS.

ARCHITECTURAL DRAUGHTSMEN, having had a full period of recognized training and experience in the preparation of drawings for good class building work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualifications and experience within a scale rising to £495 per annum.

Applications, stating age, present and previous appointments, training, qualifications, etc., should be sent to the Assistant Regional Director (Administration), Ministry of Works, Government Buildings, Hawkenbury, Tunbridge Wells, Kent.

Buildings, Hawkenbury, Tunbridge Wells, Kent.

1491

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-storcy dwellings, at salaries of up to 2700 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.

Daties will include:—

(4) 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

(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 Birector of Housing and Valuer, The County Hall, Westmuster Bridge, S.B.I. (a stamped addressed foolecap envelope required), quoting Q.S. Canvassing disqualifies. (2140) 762

NATIONAL COAL BOARD—EAST MIDLANDS DIVISION.

Applications are invited for the post of DIVISIONAL ARCHITECT of the East Midlands Division. Applicants should be fully qualified, preferably Fellows or Associates of the Royal Institute of British Architects, and should have had considerable experience of architectural designs and construction. The work will chiefly involve pithead baths and colliery surface reconstruction. The post is important and responsible, and salary will depend upon qualifications and experience. Applications, giving date of birth, education, qualifications and experience, Applications, giving date of birth, education, qualifications and experience, Applications, giving date of birth, education, qualifications and experience, together with copies of testimonials and names and addresses of referees, should be sent to the Secretary, East Midlands Divisional Coal Board, Sherwood Lodge, Arnold, Nottingham, and marked "Divisional Architect." Closing date, 2nd April.

say, sast midlands Divisional Coal Board. Sherwood Lodge, Arnold, Nottinsham, and marked "Divisional Architect." Closing date, 2nd April. 2103
CITY AND COUNTY OF NEWCASTLE-UPON-TYNE.

CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments:—
(a) FOUR SENIOR ASSISTANT ARCHITECTS. Salary £595 per annum, rising to £660 per annum (A.P.T., Grade VI).
(b) FOUR SENIOR ASSISTANT ARCHITECTS. Salary £520 per annum, rising to £570 per annum (A.P.T., Grade VI).
(c) TWO ASSISTANT ARCHITECTS. Salary £480 per annum (A.P.T., Grade VI).
(d) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £595 per annum, rising to £570 per annum (A.P.T., Grade VI).
(d) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £596 per annum, rising to £660 per annum (A.P.T., Grade VI).
(d) ONE SENIOR ASSISTANT QUANTITY SURVEYOR. Salary £290 per annum, rising to £570 per annum (A.P.T., Grade VI).
Applicants for appointments (a) and (b) should be Associates of the Royal Institute of British Architects, and must have had experience on Housing, General Architectural work, and/or Educational buildings.
Applicants for appointments (c) should have passed the Intermediate examination of the Royal Institute of British Architects.
Applicants for appointments (d) and (e) must have had experience in the preparation of Bills of Quantities. Specifications, Estimates, and the settlement of Final Accounts on all kinds of building contracts. Preference will be given to Professional Associates of the Royal Institute of Chartered Surveyors.
The appointments will be subject to the National Conditions of Service as adopted by the City Conneil: to the provisions of the Local Government Superannaution Act, 1937, and to one month's notice on either side. The successful candidates will be required to pass a medical examination.

Applications, stating age, particulars of education and training, qualifications, experience, present and previous appointments, together with copies of two recent testimonials, and the names and addresses of two persons to whom

JOHN ATKINSON,
Town Hall. Newcastle-upon-Tyne, 1.
9th March, 1949.

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

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 applications.

It is desirable that applications should be accompanied by a small sample of the applicant's work.

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

Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, should be sent to the County Architect. Surrey County Council. County Hall, Kingston-upon-Thames, not later 16th April, 1949.

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

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

DUDLEY AUKLAND,

Clerk of the Council.

County Hall, Kingston-upon-Thames. 2142

CITY OF DURHAM.

ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent and superannuable position of Architectural Assistant, in the City Engineer's Department, at a salary in accordance with Grade IV of the National Scales (£480-£525).

Applications, stating age, present and previous appointments and experience, accompanied by

4CCOTTABLE WHAT ALL ASSAULT AS

32, Claypath, Durham.

SURREY COUNTY COUNCIL
KINGSTON SCHOOL OF ART.

Applications are invited for part-time teaching appointments in the following capacities in the Department of Architecture, Kingston-upon-Tree Scool of Art.

NITADIO INSTRUCTORS, BUILDING TECHNICIADIO, INSTRUCTORS, AND SOUND Applicants should be suitably qualified, and architectural school experience will be an advantage. Payment is at the rate of 14s, per hour for Studio Instructors, and 17s, 6d. per hour for Lecturers, plus travelling expenses.

Applications should be made by letter to the Principal, Kingston School of Art, Knights Park, Kingston-upon-Thames

COUNTY BOROUGH OF DARLINGTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

(1) ONE SENIOR ASSISTANT ARCHITECT. Salary Grade VII (£635-2710).

(2) ONE ASSISTANT ARCHITECT. Salary Grade Va (£550-£610).

These appointments offer scope for good experience on all types of Municipal work, including Education and Housing, and preference will be given to candidates with such experience and possessing the recognized qualifications.

Applications, stating age, qualifications, present appointment with salary, and previous experience, longther with slary, and previous experience and Price with the names and addresses of three referees, should be sent to E. A. Tornbohm, Ar. I. B. L. A. M.T.F. I. Borough Architect. Contained Flats available.

BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the undermentioned appointments:—

ENGINEERING ASSISTANT (Grade A.P.T., I). Salary £520 to £570 per annum.

SENIOR ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £520 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £520 to £570 per annum.

Grade A.P.T., VI). Salary £595 to £660 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £500 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., V). Salary £500 to £570 per annum.

ARCHITECTURAL ASSISTANT (Grade A.P.T., IV). Salary £500 to £525 per annum.

The appropriate London weighting is paid in addition to the above salaries, and salaries in excess of the minima of the grades may be paid according to the qualifications and experience of successful candidates.

The Council have in course of preparation a large and varied programme of interesting works which it is anticipated will not be affected by the proposed reductions in capital expenditure.

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

Full particulars of the duties, terms and conditions of appointment and form of application (which must be returned by Monday, the 4th Aoril, 1949) may be obtained from the undersigned.

Canvassing in any form will disqualify.

H. A. EDWARDS.

Town Hall, East Ham, E.6.

Town Hall, East Ham, E.6. March, 1949.

NORTH BIDING OF YORKSHIRE COUNTY

Applications are invited for the appointment of two ASSISTANT ARCHITECTS, A.P.T. Division Grade VI (£595—£560), on the permanent staff in the Architect's Department.
Candidates must be Associate Members of the Royal Institute of British Architects, and must have had experience in the Architect's Department of a local authority.
Appointments superannable, subject to satisfactory medical examination, and terminable by two calendar months' notice in writing on either side.

two calendar months' notice in writing on either side.

Forms of application are not being issued, but further information may be obtained from Mr. J. Catchpole, A.R.I.B.A., County Architect, County Hall, Northallerton. Applications, stating age, qualifications and experience, together with particulars of present and previous appointments, and the names and addresses of three persons to whom reference can be made, must be delivered to the undersigned not later than Thursday, the 31st March, 1949.

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

HUBERT G. THORNLEY.

Clerk of the County Council.

County Hall.
Northallerten.
4th March, 1949.

4th March, 1949.

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of a CHIEF QUANTITY SURVEYOR, A.P.T.

Grade VIII (2568 to 2760).

The appointment, which is on the permanent staff, is subject to the Local Government Super-annuation 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 (Quantities Section).

Candidates must rook here were the section.

Institution of Chartered Surveyors (Quantities Bection).
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 Thursday, 31st March, 1949.
HOUSING ACCOMMODATION will be made available to the successful married applicant if he requires it.

E. G. CATCHPOLE, A.B.I.B.A.

City Architect.
Sevmour Road, Mannamead,

Seymour Road, Mannamead,

Plymouth Plymouth.

WORCESTERSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.
Applications are invited for the following appeintments:

A SENIO: PLANNING ASSISTANT, A.P.T.
GRADE VI. Application will be appared on the

GRADE VI.

The person appointed will be engaged on the preparation of development plans and must also be competent to advise on the control of development. Applicants must be Corporate Members of the Town Planning Institute, and have had previous experience with a planning anthority.

A PLANNING ASSISTANT, A.P.T. GRADE

IV.

The person appointed will be required to assist a Senior Planning Assistant in the duties enumerated above. Applicants should have had previous experience in the work of a planning authority, and professional qualifications by examination will be considered an advantage.

Each appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. The salary in A.P.T. Grade VI is £595 to £660, and in Grade IV, £460 to £525. Applications must be made on forms to be obtained from the County Planning Officer, County Buildings, Worcester, and returned to him not later than 5th April, 1949.

W. R. SCURPIELD, Clerk of the County Council.

Shirehall, Worcester.

Worcester.

(X.289)

OUNTY BOROUGH OF SUNDERLAND EDUCATION COMMITTEE.

Four SENIOR ARCHITECTURAL ASSISTANTS are required in the Education Architect's Department.

Candidates should have had considerable experience and be capable of handling work from the sketch plan stage to completion. Salary in accordance with Grade V of the National Scale of Salaries, viz., £520—£570 per annum.

The appointments will be subject to the Local Government Superannation Act, 1937, and to the selected candidates passing a medical examination as required by the Council.

Canvassing will be a disqualification. Application forms, to be returned within 14 days of the appearance of this advertisement, can be obtained from the undersigned, on receipt of a stamped addressed foolean envelope.

W. THOMPSON.

Director of Education.

Education Offices, 15, John Street,
Sunderland.

17th March, 1949.

COUNTY BOROUGH OF IPSWICH.
APPQINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the appointment of
Architectural Assistant in the Borough Surveyor's
Department.
The appointment is subject to the provisions
of the Local Government Superannuation Act,
1937, and to the passing of a medical examination.
The salary will be in accordance with Grade
A.P.T., VI, of the National Scales of Salaries
(£595×£20×£25-£660). Applicants must possess
the A.B.I.B.A. or equivalent examination.
There is no form of application, but candidates
must state age, experience, and any other relevant
details, and submit copies of not more than three
recent testimonials.

recent testimonials.

Applications must be received by the Borough Surveyor, Town Hall, Ipswich, not later than first post on Monday, 4th April, 1949.

Canvassing will disquality. If the applicant is to his knowledge related to any member or senior officer of the Council, he must disclose that fact in writing when submitting his application.

J. G. BARR,

Town Hall Inswich.

Town Hall, Ipswich. 10th March, 1949.

Town Hall, Ipswich.

10th March, 1949.

COUNTY BOROUGH OF WEST HARTLEPOOL.

APPOINTMENT OF ASSISTANT ARCHITECT

(GRADE V).

Applications are invited for the appointment of Assistant Architect, in the Borough Architect's Department, at a salary in accordance with Grade A.P.T., V, £520.£570.

The appointment is subject to the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services (with the exception of paragraph 39), and the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments, details of experience, together with copies of recent testimonials, are to be sent to S. M. Richmond, F.R.I.B.A., A.M.T.P.I., Borough Architect, Municipal Buildings, West Hartlepool, not later than Thursday, the 7th April, 1949.

The Council are prepared to consider the allocation of housing accommodation to the successful applicant if required.

ERIC J. WAGGOTT,

Town Clerk.

West Hartlepool.

West Hartlepool. March, 1949.

March, 1949.

COUNTY BOROUGH OF BARNSLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
SENIOR ASSISTANT ARCHITECT (SCHOOLS).
Applications are invited for the appointment of a Senior Assistant Architect (Schools) in the Borough Engineer and Surveyor's Department.
The salary will be in accordance with Grade A.P.T., VII, of the National Scales, vis., £635×£25—£710.

Borough Engineer and Surveyor's Department. The salary will be in accordance with Grade A.P.T. VII. of the National Scales, viz., £635×225-2710.

Candidates must be Members of the Royal Institution of British Architects, must have had sound experience in architectural design and in the preparation of working drawings, with full understanding of modern school construction.

The appointment will be subject to termination by one month's motice on either side, the Corporation's Staff Conditions of Service, and to the provisions or the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination.

Applications, endorsed "Senior Assistant Architect (Schools)," stating age, qualifications, and particulars of present and previous appointments, and accompanied by copies of three recent testimonials. to be sent to the Borough Engineer, Town Hall, Barnsley, not later than Monday, 11th April, 1949.

Canvassing, either directly or indirectly, will disqualify.

A. E. GILFILLAN.

A. E. GILFILLAN, Town Clerk. Town Hall, Barnsley. March, 1949.

Town Hall, Barnaley.

March, 1949.

COUNTY BOROUGH OF DERBY.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the permanent staff in accordance with the National Scale of Salaries:—
ONE ASSISTANT ARCHITECT. Grade VI.

Salary £995-£660. Applicants should be Associate R.I.B.A., with a good knowledge of work undertaken by a Local Authority, preferably with experience in School work.

ONE JUNIOR OUANTITY SURVEYOR, Grade I. Salary £390-£435. Applicants should be experienced in working up Bills of Quantities, and general assistance to Senior Quantity Surveyors.

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

Forms of application may be obtained from Thos. W. East. F.R.I.B.A. Borough Architect, The Council House, Corporation Street, Derby, and should be returned when completed, together with copies of three testimonials, to arrive not later than Monday. 11th April, 1949.

Canvassing, directly or indirectly, will be a disqualification.

E. H. NICHOLS.

E. H. NICHOLS, Acting Town Clerk. The Council House, Derby.

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COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.
Applications are invited for Established Staff
Appointments as hereunder;—
(a) ARCHITECTURAL.
(1) CHIEF ASSISTANT ARCHITECT (General),
Grade VIII, £685-£760 p.a.
(2) CHIEF ASSISTANT ARCHITECT (Education), Grade VIII, £685-£760 p.a.
(3) CHIEF ASSISTANT ARCHITECT,
HOUSING, Grade VIII, £685-£760 p.a.
(4) THREE SENIOR ASSISTANT ARCHITECT,
Grade VIII, £685-£760 p.a.
(5) TWO ARCHITECTURAL ASSISTANTS,
Grade III, £465-£495 p.a.
(6) QUANTITY SURVEYING.
(1) SENIOR ASSISTANT QUANTITY SURVEYOR. Grade VII, £635-£710 p.a.
(2) ASSISTANT QUANTITY SURVEYOR,
Grade VI, £635-£710 p.a.
(3) JUNIOR ASSISTANT QUANTITY SURVEYOR. Grade III, £460-£495 p.a.
For Architectural posts, Grade VIII or Grade
VII, the Associateship R.I.B.A. must be held, and
for Grade III pusts the Intermediate examination
R.I.B.A. must have been passed.
For Quantity Surveying posts, Grade VII or
Grade V, the Associateship R.I.C.S. must be held,
and for Grade III the Intermediate examination
R.I.C.S. must have been passed.
In the senior posts considerable experience
appropriate to the post will be demanded.
Housing accommodation will be made available
to successful applicants.
The salary scale is that of the National Scheme
of Conditions of Service, and candidates must be
under 45 years of age, unless in Local Government Service, as the appointments will be required
to pass a medical examination.
The appointments may be terminated by one
month's notice on either side.
Forms of application may be obtained from the
Borough Architect, Mr. H. T. Wykes, F.R.I.B.A.,
Guildhall, Swansea, and are to be returned,
accompanied by three recent testimonials, to the
undersigned, not later than noon on 11th April,
1949.
Canvassing, directly or indirectly, will disqualify.
(Signed) T. R. BOWEN

Canvassing, directly or indirectly, will disqualify.

(Signed) T. B. BOWEN, Town Clerk.

Guildhall, Swansea. 18th March, 1949.

18th March, 1949.

CITY OF BATH.

CITY ENGINEER'S DEPARTMENT.

ARCHITECTURAL SECTION.

Applications are invited for the appointment of a GENERAL ARCHITECTURAL ASSISTANT (Permanent), at a salary of 2450-2495 or 2490-2525 per annum (A.P.T., Grade III or IV), according to qualifications and experience. Preference will be given to candidates who are Associate Members of the Royal Institute of British Architects or hold equivalent qualifications, and who have had experience in the design and supervision of housing estates or domestic buildings.

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

Applications, stating age, qualifications and experience, together with names and addresses of three referees, should be sent to the City Engineer, Guildhall, Bath, not later than Saturday, 9th April, 1949.

JARED E. DIXON, Town Clerk.

Guildhall, Bath. 19th March, 1949.

19th March, 1949.

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.

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

Qualifications: Candidates for Grade "B," and "B," and candidates.

qualifications and experience of the successful candidates. Qualifications: Candidates for Grade "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 Assistant Secretary (Establishments), Ministry of Finance, Stormont.

BOROUGH OF ST. MARYLEBONE.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for the appointment of Assistant Architect, on the permanent establishment of the Borough Engineer's Department, at a salary in accordance with Grade VI of the APT. Division of the National Scheme of Conditions of Service (£95, rising by annual increasents to £660 per annum), plus the appropriate fondon "weighting"

Applicants, who should preferably be not more than 40 years of age, should be Associate Members of the Royal Institute of British Architects or the Royal Institute of British Architects or the Royal Institute of Chartered Surveyors. Ability to prepare Specifications and Contracts for building maintenance works would be advantageous.

The appointment, terminable by one month's notice on either side, will be subject to satisfactory medical examination by the Council's Medical Officer; to proof of age by production of birth certificate; to the National Scheme of Conditions of Service as adopted by the Council; and to compliance with the provisions of the St. Marylebone Borough Council (Superannuation) Acts, 1903-1936, and any modifications thereof. Forms of application are not issued, but candidates must write stating age, qualifications, present position and salary, particulars of past appointments, and all other essential information. Applications must be accompanied by the names of not more than three persons to whom reference as to character and ability can be made, and must be delivered to the undersigned in scaled envelopes endorsed "Assistant Architect," not later than 12 noon on Saturday, the 2nd April, 1899.

The Council's Standing Orders provide that canassing shall disconality an applicant.

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The Council's Standing Orders provide that can-vassing shall disqualify an applicant.

S. J. BUTTY, Town Clerk.

Town Hall, St. Marylebone, W.1. March, 1949.

Town Hall, St. Marylebone, W.I.

March, 1949.

STAFFORDSHIRE COUNTY COUNCIL

EDUCATION COMMITTEE.

Applications are invited for the following appointments on the permanent establishment of the Architect's Department:—
(a) SECTION ARCHITECTS.

AP.T. Division (£535×£25—£710 per annum).
(b) ASSISTANT ARCHITECTS.

Grade VII.

A.P.T. Division (£555×£20 (2) × £25—£660 per annum).
(c) SENIOR ASSISTANTS.

Grade V. A.P.T. Division (£520×£15 (2) × £20—£570 per annum).
(d) JUNIOR ASSISTANTS.

Grades I to IV.

A.P.T. Division (£390-£250), 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 control of staff.

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.

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, Barl 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 31st March, 1949.

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

Clerk of the County Council.

2116

LOCAL GOVERNMENT DEPARTMENT.
CEYLON.

POST OF ASSISTANT GOVERNMENT TOWN
PLANNER.
Applications are invited for the post of Assistant Government Town Planner in the Town and County Planning Department. Ceylon.
(2) Applicants must be British subjects, not more than 40 years of age, and must be Associate Members of the Town Planning Institute of Great Britain and Associated Members of the Royal Institute of British Architects. They must have had practical experience in Town Planning and Housing. Preference will be given to candidates with experience in the preparation and administration of statutory planning schemes.
(3) The salary of the post is £1,050, rising by four annual increments of £50 to £1,250 per annum. A candidate selected for appointment may be offered a salary higher than the initial provided his qualifications and experience warrant it. The appointment will be on agreement for three years in the first instance, with the option of renewal by Government for a further period if necessary. Further particulars may be had from the High Commissioner for Ceylon, on or before 30th April, 1349, and should be addressed to the High Commissioner for Ceylon, 22, Cockspur Street. London, S.W 1.

COUNTY BOROUGH OF SOUTH SHIELDS.
BOROUGH ENGINEER'S DEFARTMENT.
Applications are invited from persons with appropriate academic qualifications and experience for the position of:—
(a) CHIEF ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. VI (£595—£660).
(b) SENIOR PLANNING ASSISTANT, Grade A.P.T. V (£202—£570).
(c) FIRST ASSISTANT ARCHITECT, Grade A.P.T. VI (£595—£660).
(d) SECOND ASSISTANT ARCHITECT, Grade A.P.T. IV (£480—£525).
Applications for the above appointments must be made on forms obtainable from the Borough Engineer, Lt.-Col. John Roid, O.B.E., M.I.C.E., Town Hall, South Shields, and returned not later than Saturday, 9th April, 1949, appropriately endorsed.

dorsed.

Appointments will be subject to:

1. Provisions of Local Government Superannuation Act, 1937.

2. National Conditions of Service.

3. Satisfactorily passing of medical examination.

tion.
4. Termination by one month's notice on either

4. Termination by one months a made available side.

Housing accommodation will be made available for successful applicants for positions of Chief Assistant Quantity Surveyor and First Assistant Architect.

Canvassing will be a disqualification and applicants must disclose any relationship to members or senior officers of the Council.

HAROLD AYREY,

Town Clerk

bers or senior officers of the Council.

HAROLD AYREY,
Town Hall,
South Shields.

1st March, 1949.

CITY AND COUNTY OF KINGSTON-UPONHULL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the Engineering Services Section (Heating and Mechanical):—

(a) ENGINEERING SERVICES ASSISTANT A.P.T., Grade VI (£595-£660 per annum).

Applicants must be experienced in the design and preparation of drawings, specification and estimates for all classes of heating and domestic hot water schemes and ventilation work, and should preferably be Associate Members of the Institution of Heating and Ventilating Engineers, or possess equivalent qualification.

Applicants should be experienced in the preparation of schemes for hot water space heating and domestic hot water spaply installations, and have a good general mechanical engineering experience. The Department has an extensive programme of work in progress and preparation and offers experience in all classes of general mechanical and electrical engineering work.

Applicants should not be over 40 years of age (except in the case of applicants who are serving or have served in the Forces.

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

Application forms, obtainable from the undersigned, should be returned on or before 11th April, 1949.

ANDREW RANKINE, A.R.I.B.A.

City Architect.

ANDREW RANKINE, A.R.I.B.A., City Architect.

ANDREW RANKINE, A.R.I.B.A.

Guildhall, Kingston-upon-Hull.

10th March, 1949.

HUDDERSFIELD TECHNICAL COLLEGE.

Principal: Dr. W. E. Scott, M.B.E.
SCHOOL OF ART. Headmaster: H. Barwick

Ratcliffe, A.R.C.A.

Applications are invited for the post of fulltime ASSISTANT LECTURER in the Architecture Department of the above School, to commence duties in September, 1949. Applicants
should possess a Degree or Diploma in Architecture and/or the Associateship of the Royal
Institute of British Architects. Salary will be in
accordance with the Burnham Scale for Further
Education Establishments, and may reach a
maximum of £660 per annum. Further particulars
and forms of application are obtainable from The
Principal, Technical College, Queen Street South,
Huddersfield, to whom the completed forms should
be returned as soon as possible.

H. KAY.

Director of Education.

1226

7th March, 1949.

The March, 1949.

BOROUGH OF WREXHAM.
HOUSING ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of a DEPUTY HOUSING ARCHITECT, at a salary of £575 per annum.
Housing accommodation will be provided if required, and reasonable removal expenses paid to the successful applicant, subject to compliance with the conditions of appointment.
The work of the Department offers considerable scope in the administration, layout and design of houses, multi-storey flats. shopping and business centres, and ancillary buildings and amenities for one of the largest neighbourhood units in North Wales.
Conditions of appointment and forms of application may be obtained from the undersigned, to whom applications, accompanied by three recent testimonials, must be delivered by not later than the first post on Monday. 4th April. 1949.
PHILIP J. WALTERS.
Town Clerk.

Guildhall, Wrexham. 15th March, 1949.

BOROUGH OF REIGATE.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, on the staff of the Borough Engineer and Surveyor, at a salary in accordance with Grade IV of the A.P.T. Division of the National Scale of Salaries (2480-£525 per annum). Applicants should have previous experience in connection with the design of buildings and estate development and the conversion of existing properties into flats. The appointment is subject to the provision of the Local Government Superannuation Act. 1937, and to the passing of a medical examination.

Housing accommodation will be provided for the successful candidate if he is a married man. Forms of application may be obtained from Mr. George G. Sanderson, A.M.Inst.O.E., Borough Engineer and Surveyor, Town Hall, Reigate.

Applications, endorsed "Architectural Assistant," and accompanied by copies of three recent testimonials, must reach the undersigned not later than Monday, 11th April, 1949.

HEBER DAVIES,

Town Hall, Reigate,

Macch. 1649.

HEBER DAVIES,
Town Hall, Reigate,
March, 1949.

BOROUGH OF COLCHESTER.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the above-mentioned appointment, in the Borough Engineer's Department, at a salary in accordance with A.P.T., Grade IV, of the National Scales of Salaries (£480, rising by annual increments of £15 to £525 per annum).

Applicants abould have received a thorough training in general architectural work, and have had good experience in design and construction; also in the preparation of working drawings and site surveys, preferably in connection with housing work undertaken by a Local Authority. The appointment will be subject to the provisions of the Local Government Superannation Act, 1937, and will be determinable by one month's motice on either side. The successful candidate will be required to pass a medical examination. Applications, stating age, qualifications and experience, endorsed "Architectural Assistant," and accompanied by a copy of a recent testimonial, and giving the names of two persons to whom reference may be made, should be delivered to the Borough Engineer, 64, West Stockwell Street, Colchester, not later than 4th April, 1949.

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

N. CATCHPOLE.
Town Clerk.

state whether they are related to any memory of senior officer of the Council.

N. CATCHPOLE.

Town Hall, Colchester.

1616 March, 1949.

MIDDLESEX COUNTY COUNCIL.

Applications are invited for established and pensionable appointments (subject to medical fitness) in County Architect's Department.

SURVEYING ASSISTANTS, in the following grades:—A.P.T., VI (£252-£690 p.a.); A.P.T., VI (£252-£690 p.a.); A.P.T., VI (£252-£690 p.a.); A.P.T., VI (£252-£690 p.a.); A.P.T., VI (£252-£690 p.a.), and Misc. Div. I (£242-£230 p.a.).

Experience required in site inspection and surveys, drafting specifications, and variation orders; general surveying duties incidental to management of building contracts.

SURVEYING ASSISTANT. A.P.T., VI (£252-£690 p.a.). Building maintenance.

QUANTITY SURVEYOR. A.P.T., VI (£256-£690 p.a.). Building maintenance.

QUANTITY SURVEYOR. A.P.T., VI (£256-£690 p.a.). Accounts.

The above salaries quoted include London weighting for 26 years and over.

Application forms (5.a.f.e.) obtainable from County Architect, 10. Great George Street, S.W.I.

Canvassing disqualifies.

C. W. RADCLIFFE.

Clerk of the County Councit.

Guildhall, Westminster. S.W.I.

2132

CITY OF PORTSMOUTH.

Applications are invited from Associates of the R.I.B.A. for the following appointments in the City Architect's Department:

(a) ASSISTANT SENIOR ARCHITECT. Grade VI (£552-£710).

(b) PRINCIPAL ASSISTANT ARCHITECT. Grade VI (£555-£60).

(c) PRINCIPAL ASSISTANT ARCHITECT. Grade VI (£555-£60).

Applicants for (a) should have wide experience and high ability in design, particularly in connection with civic buildings.

Applicants for (c) should have a good experience of design of civic buildings and of elevational control.

Applicants for (c) should have a good experience of design of civic buildings and of elevational control.

control.

Applications for Grade IV would be considered from applicants who have passed the Intermediate examination and are preparing for the Final examination of the R.I.B.A.

Applications, with copies of not more than three recent testimonials, must reach the undersigned not later than 10 a.m. on Monday, 11th April, 1949.

Canvassing will disqualify.

V. BLANCHARD.

Town Clerk.

City Council Chambers, 1. Clayence Paradie.

City Council Chambers. 1, Clarence Parade, Southsea. 2129

COUNTY BOROUGH OF WALLASEY.
Applications are invited for the following appointments in the Borough Architect's Office:—
(a) TWO ARCHITECTURAL ASSISTANTS.
Grade A.P.T., IV (£480×£15—£525). Candidates should have had good general experience of architectural design and construction and the preparation of specifications, and preference will be given to those who have passed the Intermediate examination of the R.I.B.A.
(b) ONE ARCHITECTURAL ASSISTANT, Grade A.P.T., II (£420×£15—£465).
(c) ONE ARCHITECTURAL ASSISTANT, Grade A.P.T., II (£420×£15—£465). Candidates for (b) and (c) should be neat draughtsmen, able to prepare working drawings.
(d) ONE ASSISTANT ARCHITECT (Temporary, Grade A.P.T., VI (£50-£660). Applicants should be members of the R.I.B.A., having good experience of modern school construction.
(e) ONE ASSISTANT QUANTITY SURVEYOR. Grade A.P.T., IV (£480-£252). Applicants should have approved qualifications and be capable of undertaking the preparation of Bills of Quantities, preliminary estimates, site measurements, and interim certificates.

All appointments will be subject to the provisions of the Local Government Officers' Superannuation Act, 1937, and to the passing of a satisfactory medical examination by the successful candidates.

annuation Act, 1937, and to the passing of a satisfactory medical examination by the successful candidates.

Forms of application may be obtained from the Borough Architect, Town Hall, Wallasey, to whom they should be returned, with copies of three references, by not later than Monday, 4th April, 1949.

April, 1949.

COUNTY BOROUGH OF DUDLEY.

ASSISTANT ARCHITECT.

Applications are invited for the appointment of Assistant Architect, at a salary on Grade V (£550-£570) per annum, of the National Scale of Salaries, on the established staff of the Borough Architect's Department.

Candidates will be required to pass a satisfactory medical examination for superannuation purposes, and the appointment will be subject to one month's notice on either side.

Applicants must be Associates of the R.I.B.A. and mast be capable of preparing working drawings, details, specifications, etc., for housing and school buildings, and must have a sound knowledge of building contracts.

Applications, stating age, qualifications and experience, accompanied by the names of two or more persons to whom reference may be made, should be delivered to me not later than Tuesday, the 12th April, 1949.

P. D. WADSWORTH.

The Council House, Dudley.

17th March, 1949.

2165

The Council House, Dudley. 17th March, 1949.

THE WAR DEPARTMENT.

Applications are invited for appointments as CLERKS OF WORKS in the Public Works Department of the British Military Administration of the former Italian Colonies in North and East Africa.

The salaries to the grades for which candidates are selected are: (i) £400 p.a. × £15—£475 p.a.; (ii) £325 p.a. × £15—£400 p.a. In addition, a Foreign Service allowance is payable at the regulated rates, dependent on whether candidates are married or single and whether or not accommodation is provided.

The appointments are temporary, the period of contract being to the 30th June, 1950, in the first instance. They are offered subject to medical examination.

instance. They are offered subject to medical examination.

Written applications, giving date of birth, full details of qualifications and experience of posts held, including dates, should be addressed to the Appointments Office, Ministry of Labour and National Service, 1-6. Tavistock Square, London, W.C.1, quoting reference number F.A.162.

In no circumstances should original testimonials be forwarded.

BOROUGH OF KEIGHLEY.
BOROUGH ARCHITECT'S AND HOUSING
DEPARTMENT.
Applications are invited for the under-mentioned
appointments on the permanent staff:—
Conditions of Service and salaries are in accordance with the National Joint Council Scheme for
Level Anthorities.

peal Authorities.
(a) ONE ASSISTANT ARCHITECT, Grade II.

(a) ONE ASSISTANT ARCHITECT, Grade II. Salary scale £420 to £465.
(b) ONE ASSISTANT ARCHITECT, Grade I. Salary scale £390 to £435.
Applicants for position (a) to have had general architectural experience, and to have passed the Intermediate examination of the R.I.B.A.
Applicants for position (b) to have approached the Intermediate standard of the R.I.B.A.
-Canvassing of members of the Council, directly or indirectly, will be a disqualification for appointment.

ment.

Applications to be made on a form to be obtained from the undersigned, to whom it must be returned, accompanied by copies only of two recent testimonials, not later than Wednesday, 6th April, 1949. In applying for the form, please state for which appointment.

Envelopes and applications must be endorsed, stating clearly the vacancy for which the application is made.

E. G. FELGATE, A.R.I.B.A.,

Borough Architect.

Borough Architect's and Housing Department,

College Street, Keighley.

2124

CAMBORNE-REDRUTH URBAN DISTRICT
COUNCIL.
APPOINTMENT OF SENIOR ASSISTANT
ARCHITECT.
Applications are invited for the appointment of
Senior Assistant Architect, in the Department
of the Engineer and Surveyor, at a salary in
ccordance with Grade A.P.T., VI (£595 to £660
eer annum.)

Applicants should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications, and have had extensive experience in the design and supervision of Municipal Housing Works.

The appointment will be subject to the National Joint Council Scheme of Conditions of Service, and the Local Government Superannuation Act, 1937, and will be terminable by one month's notice Applications, stating age, present

1937, and will be terminable by one month's notice on either side.

Applications, stating age, present and previous appointments held, together with copies of three recent testimonials, should be forwarded in envelopes, endorsed "Senior Assistant Architect," to Mr. N. Barrett, A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Council Offices, Camborne, so as to be received not later than first post on Saturday, 2nd April. 1949.

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

Canvassing will disqualify.

S. C. WILSON,

S. C. WILSON,
Clerk to the Council.
17th March, 1949.
COUNTY P.C.

17th March, 1949.

COUNTY BOROUGH OF BOLTON.

APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant in the Department of the Borough Engineer and Surveyor, A.P.T.,
Grade IV/V, with a salary range of £480 to £570 per annum. Commencing salary will be in accordance with the candidate's experience and qualifications.

neations.

Applicants must be Associate Members of the Royal Institute of British Architects, and it will be an advantage if candidates have had experience in the design and construction of modern

schools. The appointment is permanent and pensionable. Applications, stating age, qualifications, appointments held and experience, and copies of not more than three testimonials, should be delivered to the undersigned not later than 14 days after the appearance of this advertisement, and the envelope endorsed "Architectural Assistant."

PHILIP S. RENNISON, Town Clerk.

COUNTY BOROUGH OF BURNLEY.
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT.
Applications are invited for the following

appointments:—
(1) SENIOR PLANNING ASSISTANT, Grade I. £595-£660 per annum. (2) PLANNING ASSISTANT, Grade V. £520-

(1) SENIOR PLANNING ASSISTANT, Grade VI. £595-£660 per annum.

(2) PLANNING ASSISTANT, Grade VI. £520-£570 per annum.

(3) QUANTITY SURVEYOR, Grade VII. £635-£710 per annum.

Applicants for appointments (1) and (2) should be Associate Members of the Town Planning Institute and the holding of other qualifications will be an advantage. Experience in a similar capacity in a Planning Office is essential.

Applicants for appointment (3) should be experienced in the preparation of Bills of Quantities, the checking of Interim Valuations and the settlement of Final Accounts. Preference will be given to Fellows or Professional Associates of the Surveyors' Institution (Quantity Surveyors' Section), and experience with a Local Authority would be regarded as an advantage.

Conditions of service are those formulated by the National Joint Council, and the appointments are on the established staff and subject to the provisions of the Local Government Superannation Act, 1937, the successful applicants being required to pass a medical examination. The appointments are terminable by one month's notice on either side.

Canvassing, either directly or indirectly, will disqualify the candidate, and any relationship to a member or senior officer of the Council must be clearly stated in the application.

Forms of application may be obtained from the Borough Engineer and Surveyor, Town Hall, Burnley, to whom applications should be returned in the envelope provided, not later than 9 a.m. on Monday, the 11th April, 1949.

Town Hall, Burnley. March, 1949.

March, 1949.

SOUTH-WESTERN REGIONAL HOSPITAL
BOARD.

ARCHITECT'S DEPARTMENT.
Applications are invited for two posts of
JUNIOR ARCHITECTURAL ASSISTANTS to
the Board. The successful candidates will be
on the staff of the Board's Architect, and chould
be Associate Members of the R.I.B.A. Candidates
should live in or near Bristol. The initial salary
will be on the scale A.P.T., Grade III. i.e., 2450×
215—2495. or according to age and experience.
Applications, stating age and qualifications, together with the names of two referees, should
reach the Secretary of the Board, 5/6, Cotham
Lawn Road, Cotham, Bristol, 6, not later than
11th April, 1949.

CORPORATION OF LONDON.
CLERK OF WORKS required for reconstruction and rehabilitation of a City Police Station.
Commencement expected April, and job likely to extend over 12 to 18 months. Salary £10-£15 per week, according to experience and qualification. Applications to George Holliday, F.B.J.C.S., tha City Surveyor, 55/61, Moorgate, E.C.2.

LONDON TRANSPORT BXSCUTIVE.
Applications are invited for the following temporary appointments on the staff of the Architect:—

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(a) ARCHITECTURAL ASSISTANTS. Fully multified and experienced. Salary range £500-£550

(a) ABCHITECTURAL ASSISTANTS. Pully qualified and experienced. Salary range £500-£50 per annum.

(b) GENERAL TECHNICAL ASSISTANTS. Passed Intermediate standard, with office experience. Salary range £215 to £445, according to age and qualifications.

Applications, giving full particulars of training and experience, to be addressed to the Staff Officer (F/EV.2), London Transport Executives, 6, Broadway, S.W...

CONTROL OF ENGAGEMENT ORDER.
This vacancy does not relate to a man between the ages of 18 and 50 inclusive, unless he is excepted from the provisions of the Control of Engagement Order, 1947.

BOROUGH OF NELSON.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

AMENDED ADVERTISEMENT.

Applications are invited for the appointment of Architectural Assistant, in the Borough Surveyor's Department, at a salary in accordance with Grade V of the National Scales (£520 to £570) (consolidated).

Candidates should have experience in housing

V of the National Scales (£520 to £570) (consolidated).
Candidates should have experience in housing and general work, and preference will be given to applicants who have passed the Final or Inter. R.I.B.A. examination. Applications, giving detailed particulars of experience and qualifications, endorsed "Architectural Assistant," with copies of three recent testimonials, to be delivered to the undersigned on or before Saturday, 9th April, 1949.

F. W. ROBERTS.

F. W. ROBERTS, Town Clerk, Town Hall, Nelson. 17th March, 1949.

MANCHESTER REGIONAL HOSPITAL BOARD.

APPOINTMENT OF PRINCIPAL ASSISTANT ARCHITECT.

Applications are invited for the appointment of Principal Assistant Architect on the Board's Headquarters' staff. Salary £800×£25—£950 per annum.

annum.

Applicants must be Fellows or Associates of the Royal Institute of British Architects, have had experience in hospital design and construction possess good administrative ability, and be capable of deputising for the Regional Architect. The appointment is subject to the National Health Service (Superannuation) Regulations.

1947.
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 9th April, 1949.

J. GIBBON.

J. GIBBON.

North Parade, Parsonage Gardens,
Secretary of the Board.

North Parade, Parsonage Gardens,
Manchester, 3.

BURGH OF CLYDEBANK.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT on the Staff of the Burgh Surveyor.

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

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

Applicants should have passed the R.I.B.A. Intermediate examination, and have had experience in an Architect's office.

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

Applications, stating age, training, qualifications, experience, present appointment and period held, together with the names of three referees, must be delivered to the undersigned not later than 4th April, 1949.

E. CORNOCK, M.I.Struct. E.,

Burgh Surveyor.

Municipal Buildings, Clydebank.

Architectural Appointments Vacant lines or under, 5s.; each additional line, 1s. 6s

A SSISTANT for B. Midlands office. Good draughtemanship and practical experience of domestic work, alterations, maintenance, and quantities desirable. Box 1945.

I ARGB business concern in London has

LARGE business concern in London has vacancies for Assistants in Architect's office. Must have experience of building surveys, be neat and accurate draughtamen with good knowledge of construction and detail and working drawings. Good prospects of permanency for suitable applicants, who should write stating age and experience. Box 2056.

A RCHITECTURAL ASSISTANT, qualified by A RCHITTECTURAL ASSISTANT, qualined by examination or experience, required for varied rural housing and commercial practice. Salary up to £400 per annum. Write, with full details, to D. C. Denton-Smith, L.R.I.B.A., Chartered Architect, 40, Regent Street, Cambridge. JUNIOR ARCHITECTURAL DRAUGHTS-MAN required for industrial concern in South-castern England. Write to Box 1948, stat-

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TUNIOR ARCHITECTURAL ASSISTANT required immediately, must be good draughtsman and colourist. Apply T. F. Parker, LR.I.B.A., 9, The Crescent, Wisbech. 2046

ARCHITECTURAL ASSISTANT, Intermediate Standard, wanted in Housing Company, experience of working drawings and detailing seential. Write, stating age, experience and salary required, Box 2045.

EXPERIENCED ARCHITECTURAL ASSISTANT required for commercial buildings. Salary £400/£500, according to ability. Box 2039.

A RCHITECTURAL ASSISTANT required immediately for S.E. Kent. Capable of preparing working drawings and specifications and supervising building work. Salary approximately £450, according to qualifications. Particulars to Box 2038.

SENIOR ARCHITECTURAL ASSISTANT re-SENIOR ARCHITECTURAL ASSISTANT required for permanent pensionable position in the London Office of Premises Department, Ind Coope & Allsopp, Ltd. Applicants should be either Associates of the Royal Institute of British Architects or trained at a recognised School of Architecture, and should have a good general experience in design and construction and be capable of taking charge of jobs from the initiation of sketch plans to completion of the work, including supervision of work on the site. Experience in the design, decoration and furnishing of Licensed Premises would be an added asset, but is not insisted upon. They will also be required to pass a medical examination and to contribute to the general Staff Superannuation Scheme in force. A five-day working week is in operation, and allowances include all travelling expenses and Season Ticket from place of residence. Particulars of training, experience, past and present appointments and qualifications, together with testimonies and stating salary required, date available and whether married or single, to be sent to the Chief Architect, Premises Department (S.E. Area), 33/45, Pancras Road, London, N.W.L. 2002

A SSISTANT required in Maidenhead Architect's office, principally for preparation of specifications, schedules, surveys and work in connection with management of contracts. Apply with particulars of experience and salary required to Box 2016.

quired to Box 2016.

A RCHITECTURAL ASSISTANT and/or Draughtsman required in Maidenhead office. Good prospects in busy practice for keen men. Details of experience and salary required to Roy 2017.

Box 2017.

A RCHITECTURAL ASSISTANTS required in West Country office. Intermediate Standard. General practice, including farms, factories, domestic work, etc. Ability to drive car an advantage. Interesting work and appointment. Full particulars of experience training, salary, etc., to Box 2066.

ENIOR ARCHITECTURAL ASSISTANT, qualified, with extensive experience of preparing working drawings, required for work in connection with large housing, cinema and office schemes in private office, London; West Central area; age 30/36; salary up to £750. Write Box 2086.

JUNIOR ASSISTANT required, second or third year's standard, for busy West End Architects' office. Box 2101.

A SSISTANT ARCHITECT required by large industrial organization for service in the Middle East for work on development of sites and designs of housing amenity buildings; L.E.I.B.A. experience, and a minimum of 5 years in an Architect's office on Housing Development essential; age limit 35 years; attractive salary, plus generous allowance in local currency; free passages ont and home; free medical attention; til allowance; pension scheme; good leave atrangements. Write, giving age and details of qualifications and eareer, quoting Department F.12, to Box 1882, at 191, Gresham House, E.C.2.

P.12, to Box 1882, at 191, Gresnam House, 35.38.

QUALIFIED or fully experienced ASSISTANT required for permanent position in company Architects' office in the Midlands. Applicants are requested to give full particulars of training, age and salary required, to Box 1913.

ARCHITECTURAL ASSISTANT required, ARIBA. Intermediate standard; experience in catering premises an advantage; permanent position; pension scheme. Reply, giving age. experience, and salary required, to Box FT.375, Everetts Advertising, Ltd., 10, Hertford Street, W.1.

REQUIRED at Company's Head Office,
Guildford, TWO ARCHITECTURAL ASSISTANTS, one to be A.B.I.B.A., and one to have
reached R.I.B.A. Intermediate standard; five-day
week; salary by arrangement. Box 2118.

ARCHITECTURAL ASSISTANTS required
(Intermediate standard) in West End offices
of Chartered Architects; good salary and prospects of early promotion to position of responsibility for suitable men. Reply, stating age, experience, etc., to Box 2119.

A RCHITECTURAL ASSISTANT, of Intermediate R.I.B.A. standard or equivalent, required by London Company engaged on extensive programme of Prefabricated Schools, Commercial Bundings, etc. Apply, giving fuil particulars of quaincations and experience, salary required, Rox 2130.

of quaincations and experience,

Dox 2139.

CAPABLE and efficient ARCHITECTURAL
ASSISTANT required immediately, preferancy A.H., B.A., for busy Architect's ofnce in
Eastbourne-Hastings area; accommodation available. Apply, stating age, experience, and salary
required, to Box 2108.

ARCHITECTURAL ASSISTANTS (TWO) required immediately; R.I.B.A. Intermediate
standard or better; with office experience preferred; salary £350-£400, according to experience. Ruddle & Wilkinson, F./L.R.I.B.A., Long
Causeway Chambers, Peterborough. Telephone
2166.

A RCHITECTURAL STAFF REQUIRED.—
Sir John Burnet, Tait & Partners, FF.R.I.B.A., announce that they have established Salary Grades and Scales for their Staff as follows:—

Salary Grades and Scales for their Staff as follows:— GRADING SYSTEM:

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Grade II JUNIOR ASSISTANTS.—£330-£450 per annum; four yearly rises of £30. Range: 1st year £330, 2nd year £360, 3rd year £390, 4th year £300, 5th year £300, 5th year £300, 5th year £480-£540 per annum; four yearly rises of £40. Range: 1st year £30, 3rd year £500, 4th year £600, 5th year £500, 3rd year £500, 5th year £500 per annum; four yearly rises of £50. Range: 1st year £500, 2th year £500, 5th year

ist year 2650, 2nd year 2700, 3rd year 2750, 4th year 2650, 5th year 2850 per annum.

Grade V ASSISTANT ARCHITECTS.—At special rates.

STAFF REQUIRED.—Vacancies occur in Grades II and III. Applications should be made to Sir John Burnet. Tait & Partners, Architects, 10, Bedford Square, London, W.C.1.

ARCHITECTURAL ASSISTANTS R.I.B.A. Inter. standard, also JUNIOR to start, required for private office, South Birmingham. Box 2112.

TWO ASSISTANTS required immediately for general practice in N.W. Kent (20 miles London); housing, licensed premises, agricultural and commercial buildings, maintenance, etc. (a) At least Intermediate standard; design, specifications, supervision, surveys, etc.; salary up to £500 per annum, according to ability. (b) Good draughtsman, working drawings, surveys, etc.; salary up to £505 per annum. Please reply, stating age, training, experience, etc., to Box 2154.

ARCHITECTURAL ASSISTANT required immediately, with housing, general practice and surveying experience; good draughtsman; state age, experience, salary required. H. M. Barker, L.R.I.B.A., 16, King Street, Deal. 2155

ARCHITECTURAL and SURVEYING ASSISTANT—Property Managers and Surveyors have vacancy for keen man, able to work on own initiative; interesting and varied work, with good prospects; experience of town planning, wardamage specifications and claims, small house draughtsmanship; property repairs an advantage. Apply by letter, stating experience, age, and salary to commence, to Hilbery Chaplin, Ltd., Egyptian House, 170-3, Piccadilly, W.1. 2156

ARCHITECTURAL ASSISTANT required immediately for office, West Riding of Yorkshire; must be experienced in working drawings, details, levelling, etc.; knowledge of quantities an advantage. Write, giving experience on their Regineering Staff, at Northwich, Cheshire, for Engineering Staff, at Northwich, Cheshire, for

Imperial Chemical Industries, Ltd., Alkali Division, have vacancies on their Engineering Staff. at Northwich, Cheshire, for ARCHITECTURAL ASSISTANTS, who are fully qualified and experienced; conditions of service, salary, etc., will be discussed at interview. Applications, stating age, details of experience, qualifications and salary expected, should be forwarded to Staff Manager, Imperial Chemical Industries, Ltd., Alkali Division, Winnington, Northwich. Cheshire.

SENIOR ARCHITECTURAL ASSISTANT required for permanent staff at good salary; applicants should be top grade men, with at least 8 years' drawing office experience, preferably on industrial or hospital work; accustomed to responsibility and ambitious; this is a post with prospects, which will attract the best assistants. Apply by letter, giving experience and all usual particulars, to Harry S. Fairhurst & Son, F.R.I.B.A., Chancery Chambers, 55, Brown Street, Manchester, 2.

A SSISTANT ARCHITECT required in London office of Oil Company operating in the Persian Gulf; should be prepared for possibility of short tour of company's site; applicants must be A.R.I.B.A. and have actual office experience in the design and supervision of public buildings, housing schemes, etc.; age 28 to 37; salary according to age and experience. Write, glving details age, experience, etc., and quoting LO25, to Box "K.L." (*o J. W. Vickers & Co., Ltd.. 7/8, Great Winchester Street, E.C.2. 2169

SENIOR ASSISTANT required in West End-Architects' offices; first-class draughtsman, capable of preparing working drawings and details. Apply Box 2120.

ARCHITECT.—Competent JUNIOR required by well-known manufacturing company in Clydebank, for alterations and extensions to buildings in large engineering works; should preferably have experience of the design and construction of this type of building in brick and reinforced concrete; must be accurate draughtsman and accustomed to making up schedules of quantities; salary £500 p.a. Applicants should state experience and qualifications, and apply to Technical and Scientific Register, York House, Kingsway, London, W.C.2, quoting reference number J/149/49.

Architectural Appointments Wanted

ARCHITECTURAL ASSISTANT (31), graduated at Liverpool University, looking for a job; preferably in London. Box 254.

WOMAN ARCHITECT, A.R.I.B.A., University Graduate, age 27, seeks responsible position in small progressive office in Central or South-East London; good general experience; excellent references. Box 266.

Other Appointments Vacant

Mess or under, 5s.; each additional line, 1s. 5d.

DESIGNER-DRAUGHTSMEN required. Fiveday week. Superannuation scheme. Apply stating age, experience and salary required. Courtney Pope, Ltd., Storefitters, Tottenham, N.15.

A RCHITECTURAL METALWORK REPRE-SENTATIVE 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.

Salary required.

SHOPFITTING DRAUGHTSMAN with practical experience required; permanent position; pension scheme. Write full details of age, experience, and salary required, to Box F.T.376, Everetts Advertising, Ltd., 10, Hertford Street, W.1.

tion; pension scheme. Write full details of age, experience, and salary required, to Box P.T.376, Everetts Advertising, Ltd., 10, Hertford Street, W.L.

EXPERIENCED ARCHITECTURAL DARGHITHMEN required by large Petroleum Organization in North-West; must have thorough knowledge of building construction and be capable of preparing detailed working drawings and specifications from sketch designs for large commercial and industrial buildings; knowledge estimating and preparing bills of quantities an advantage; salary according to age and experience; pension benefits; good canteen facilities. Write, stating age, qualifications, full details of experience and when available, to Box P.E.655, Deacon's Advertising, 35, Leadenhall Street, London, E.C.3.

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4 lines or under. 2s. 6d.: each_additional line. 1s. PART-TIME ASSISTANCE offered to Archi-tects for bullding and land surveys, level-ling, contouring, etc., for housing schemes, school sites, factory sites, etc. Own car and equipment. Box 1852.

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YOUNG Lady (25), recently completed 3 years ourse Interior Decoration at a London school, 2 years' experience in Architects' offices, desires position. Box 2113.

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Professor Tunnard traces the history of the garden in a way that shows its relation to life and landscape, and against this historieal background he indicates how modern conceptions of town and countryside could give birth to a new conception of landscape and garden planning.

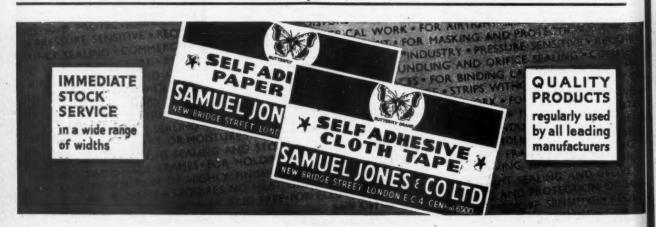
Professor Tunnard has spent some years studying and teaching landscape architectute in America, and has therefore been able to add to this second edition of his book a selection of illustrations of

modern American gardens. A note on 'The Modern Garden' by Dean Hudnut of Harvard University has also been aided, together with a series of annotated illustrations of plants suitable for use with architecture which originally appeared in THE ARCHITECTURAL REVIEW.

The book contains 184 pages including over 190 photographs, prints, drawings and plans. Its size is 9½ ins. by 6½ ins., and it is bound in cloth.

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There are vacancies in the Chief Architect's Division for

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with recognised training and fair experience. Successful Candidates will be employed in London and elsewhere on a wide variety of

London and elsewhere on a wide variety of Public Buildings, including Atomic Energy and other Research Establishments, Telephone Exchanges, and Housing.
Salary: Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£625, plus overtime. Starting pay will be assessed according to age, qualifications and experience. These rates are for London; a deduction is made in the provinces. deduction is made in the provinces.

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

APPLY in writing, stating age, nationality, full details of experience, and locality preferred, to Chief Architect, W.G.IO/T, Ministry of Works, Abell House, London, S.W.I.

MINISTRY OF WORKS

Applications are invited for posts of Architectural Assistants at salaries from £292 per annum to £510 per annum, slightly lower r women.

Appointments are in an unestablished capacity, with prospects of advancement and security. Commencing salaries will be determined according to age, qualifications and experience. according to age, qualifications and experience. Successful candidates will be required to undertake the preparation of sketch plans, working drawings and specifications for Government building work of all types. Replies should be made in writing, stating age to C. A. E. Thatcher, A.R.I.B.A., Assistant Regional Director, Ministry of Works, 5, Priory Road, Bristol, 8.

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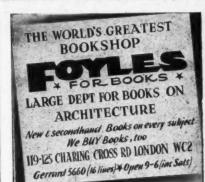
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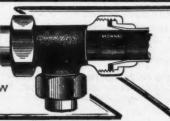
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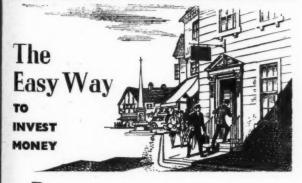
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