

THE ARCHITECTS' JOURNAL



standard contents

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

NEWS and COMMENT

Diary

News

Architects' Commonplace Book

Astragal's Notes and Topics

Letters

Societies and Institutions

TECHNICAL SECTION

Information Sheets

Information Centre

Current Technique

Questions and Answers

Prices

The Industry

PHYSICAL PLANNING SUPPLEMENT

CURRENT BUILDINGS

HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts.	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Welbeck 5721
ABT	Association of Building Technicians. 5, Ashley Place, S.W.1.	Victoria 0447-8
ACGB	Arts Council of Great Britain. 9, Belgrave Square, S.W.1.	Sloane 0421
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
APRR	Association for Planning and Regional Reconstruction. 34, Gordon Square, W.C.1.	Euston 2158-9
ArchSA	Architectural Students' Association. School of Architecture, Manchester Municipal School of Art, All Saints, Manchester, 14	Ardwick 3480
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Welbeck 9738
ASB	Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1.	Welbeck 5721
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Welbeck 5721
BATC	Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.	Reliance 7611, Ext. 1706
BC	Building Centre. 9, Conduit Street, W.1.	Mayfair 2128
BCC	British Colour Council. 28, Sackville Street, W.1.	Regent 3613
BCCF	British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13.	Perivale 6869
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham.	Redditch 716
BDA	British Door Association. 25, Victoria Street, S.W.1.	Abbey 5422-3
BEDA	British Electrical Development Association. 2, Savoy Hill, W.C.2.	Temple Bar 9434
BGC	British Gas Council. 1, Grosvenor Place, S.W.1.	Sloane 4554
BGF	British Gas Federation. 1, Grosvenor Place, S.W.1.	Sloane 8266
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BIAE	British Institute of Adult Education. 29, Tavistock Square, W.C.1.	Euston 5385
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Millbank, S.W.1.	Whitehall 5140
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 2246
BSA	British Steelwork Association. Eggington House, Buckingham Gate, S.W.1.	Victoria 7301-2-3
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. 28, Victoria Street, S.W.1.	Abbey 3333
CAS	County Architects Society. C/o A. Guy Chant, F.R.I.B.A. Salop County Council, 5, Belmont Shrewsbury.	Shrewsbury 3031
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Sloane 5255
CDA	Copper Development Association. Kendals Hall, Radlett, Herts.	Radlett 5616
CIAD	Central Institute of Arts and Design. C/o National Gallery, W.C.2.	Whitehall 2415
CIAM	Congres Internationaux d'Architectures Modernes. Doldental, 7, Zurich, Switzerland	
CID	Council of Industrial Design. Tilbury House, Petty France, S.W.1.	Whitehall 6322
CPC	Codes of Practice Committee. MOW, 42, Onslow Gardens, S.W.7.	Kensington 7070
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280	
CUJC	Coal Utilization Joint Council. 54, Victoria Street, S.W.1.	Victoria 9851
DIA	Design and Industries Association. 9, Conduit Street, W.1.	Mayfair 5432
DOT	Department of Overseas Trade. 35, Old Queen Street, S.W.1.	Victoria 9040
EC	Electricity Commission. Savoy Court, Strand, W.C.2.	Temple Bar 7565
EJMA	English Joinery Manufacturers Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
FASSC	Federation of Association of Specialists and Sub Contractors. 21, Tothill Street, S.W.1.	Whitehall 9606
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	Flush Door Manufacturers Association. Stapleford Road, Trowell, Nottingham.	Ilkeston 623/4/5
FLD	Friends of the Lake District. Pennington House, Nr. Ulverston, Lancs.	Ulverston 201
FMB	Federation of Master Builders. 23, Compton Terrace, Upper Street, N.1.	Canonbury 2041
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4041
FS (Eng.)	Faculty of Surveyors of England. 8, Buckingham Palace Gdns., S.W.1.	Sloane 2837
GG	Georgian Group. 27, Grosvenor Place, S.W.1.	Sloane 2844
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881

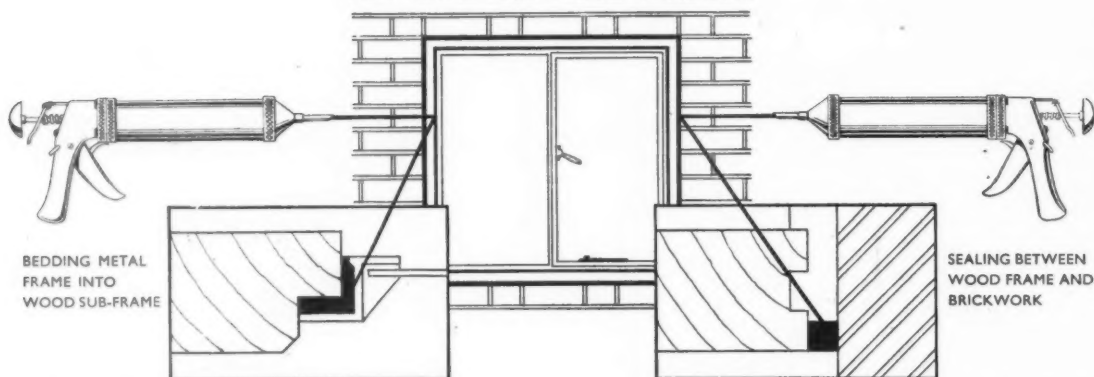
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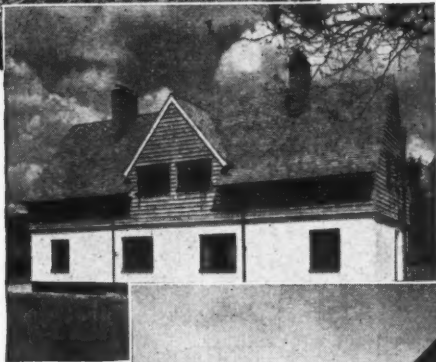
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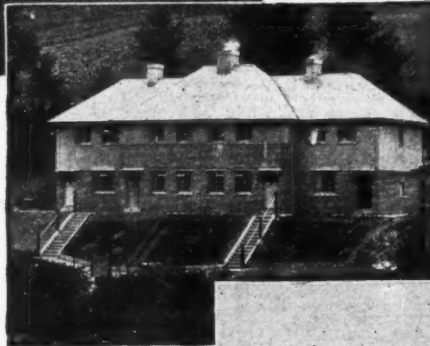
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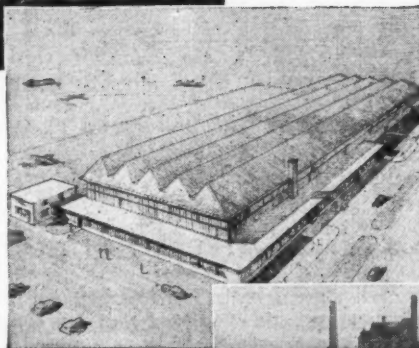
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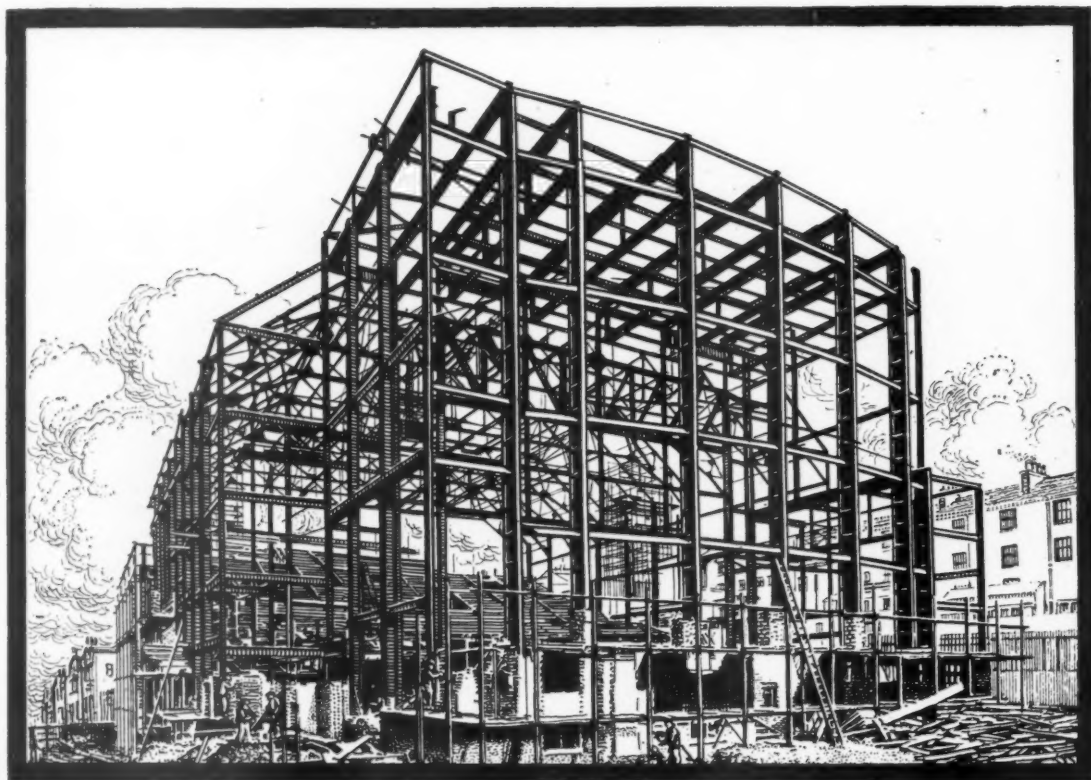
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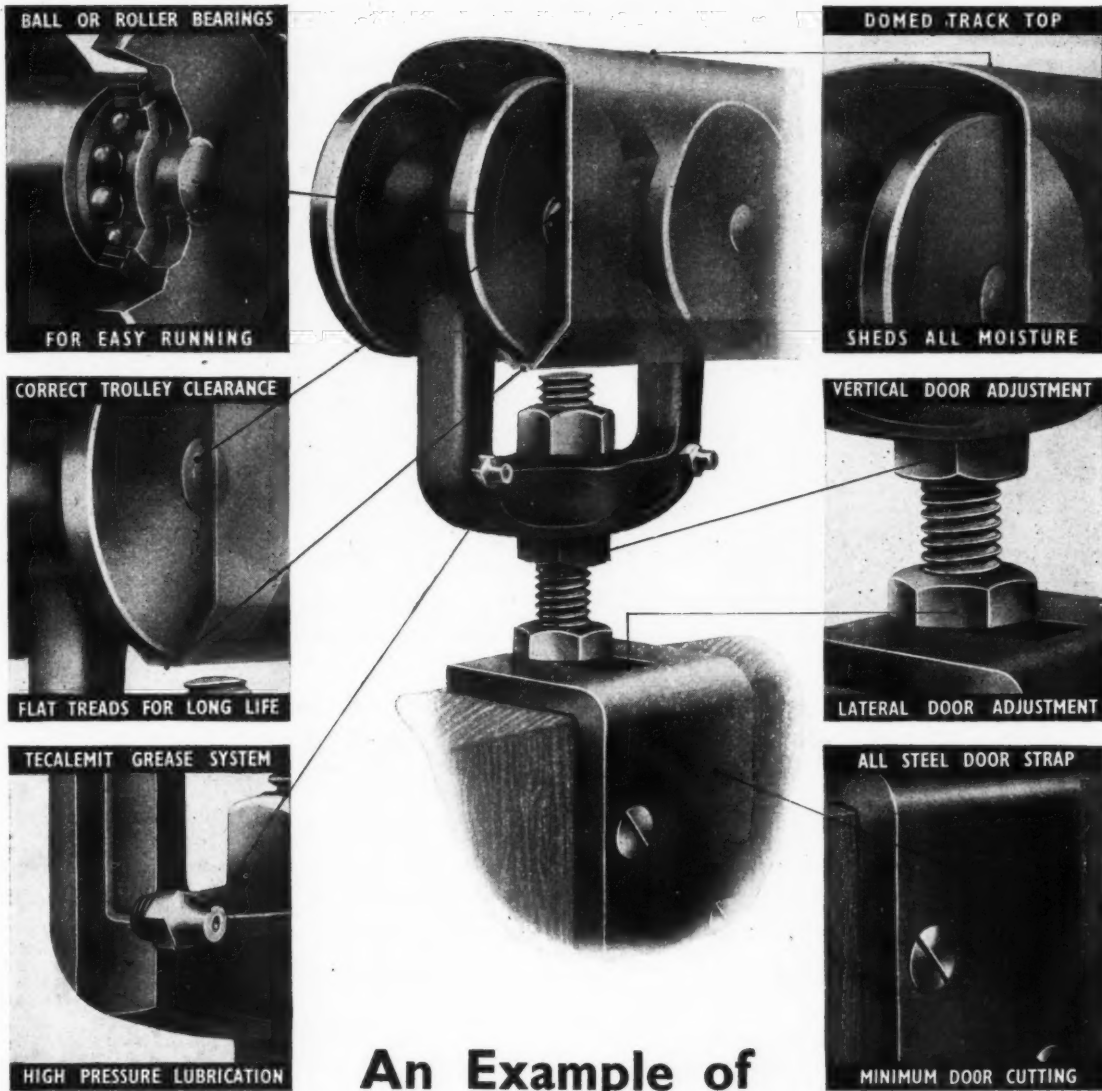
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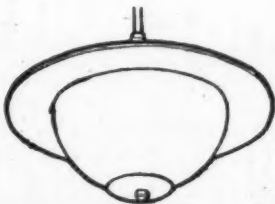
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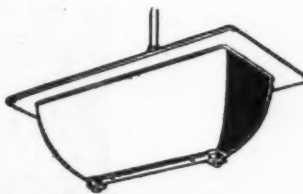
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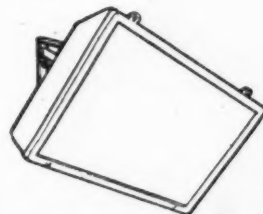
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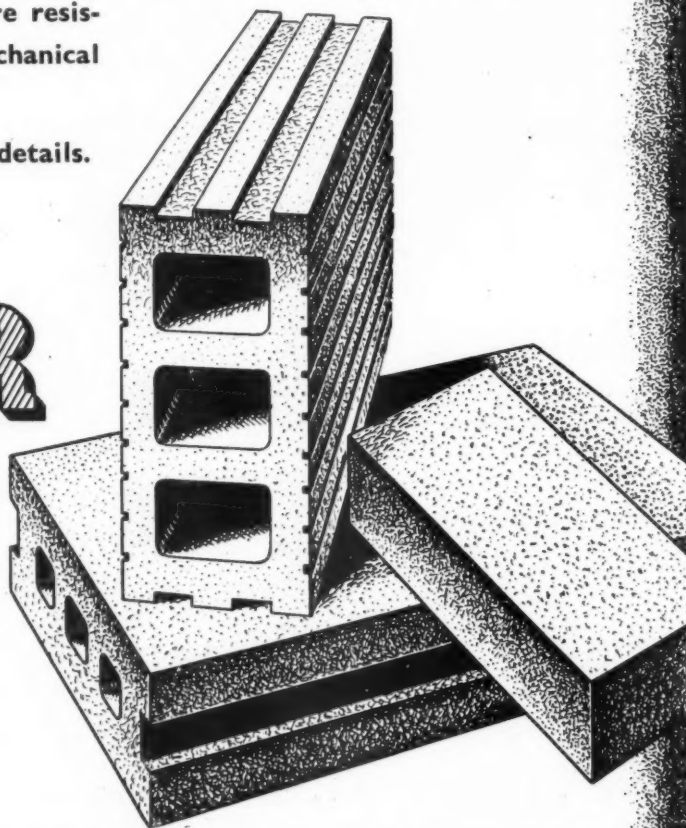
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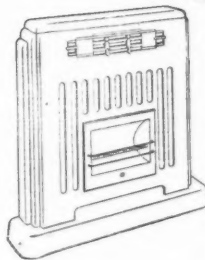
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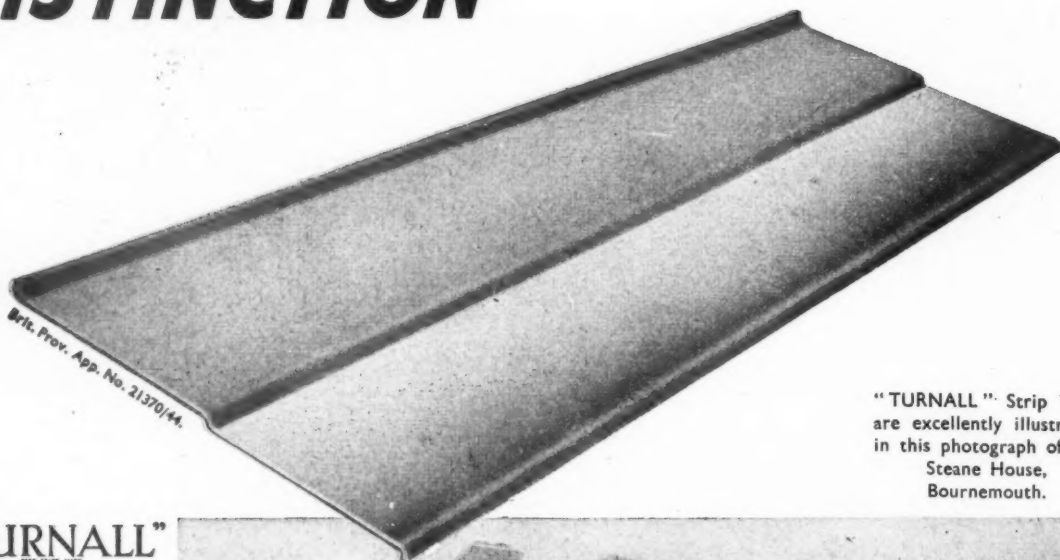
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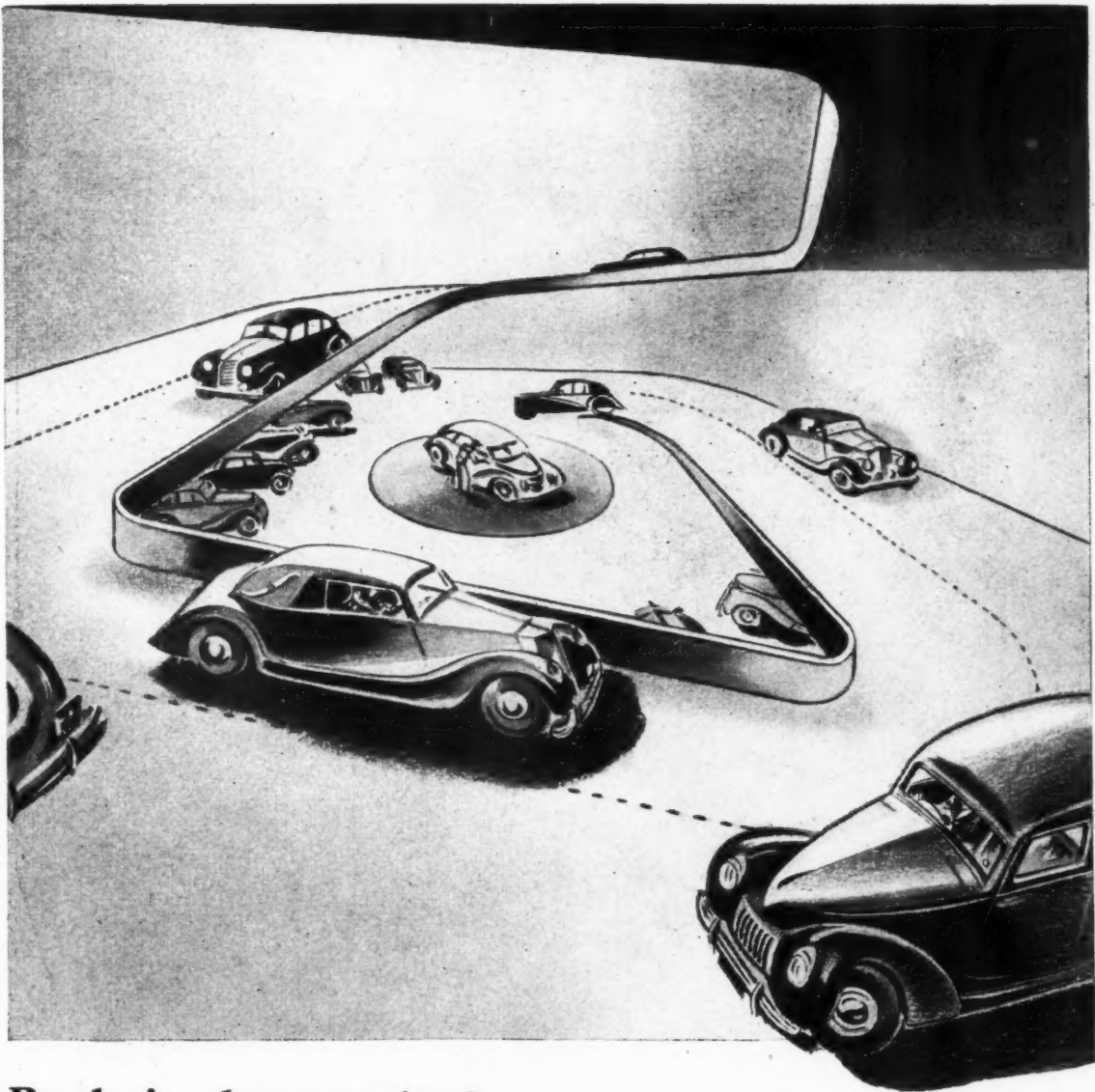
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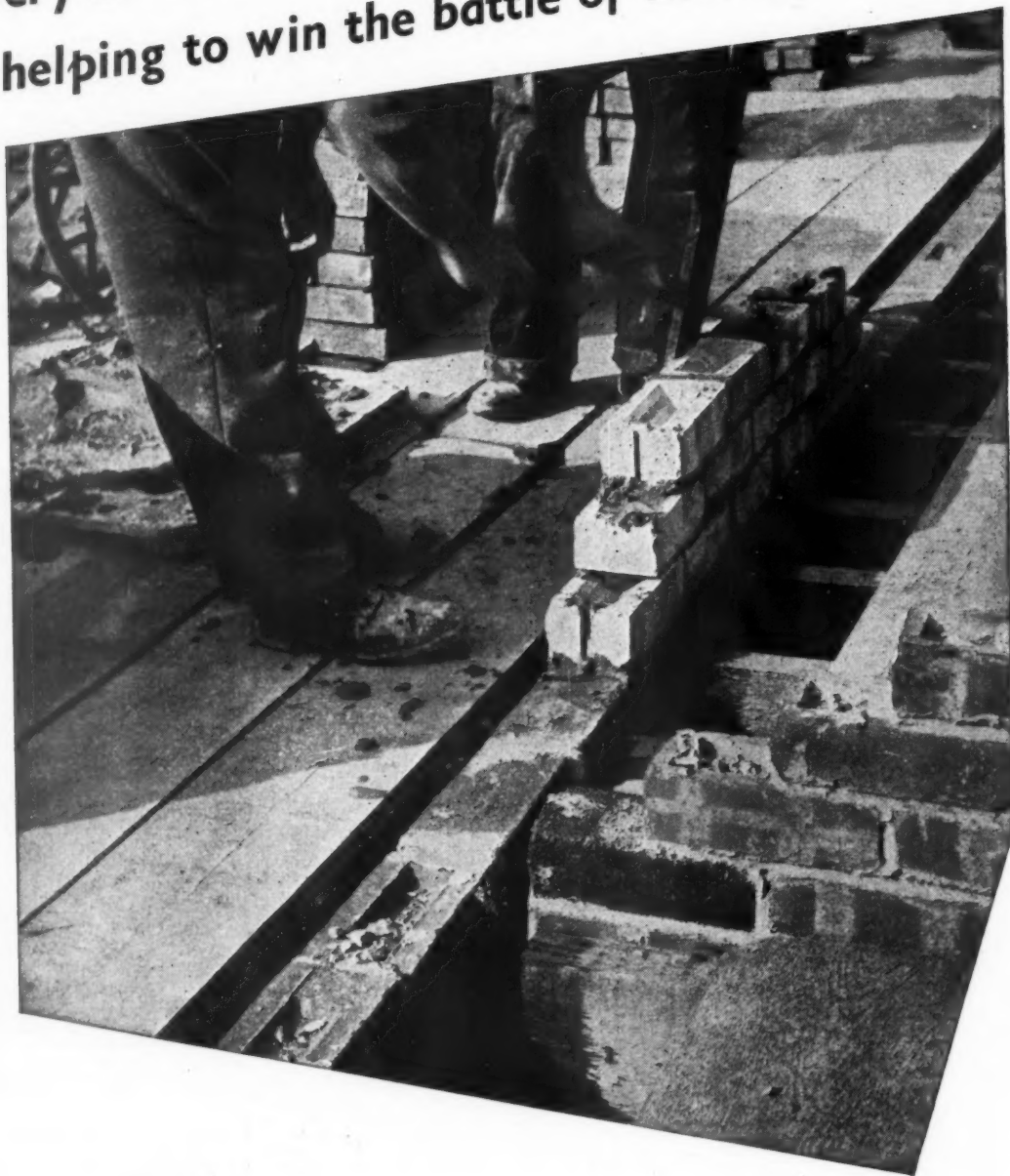
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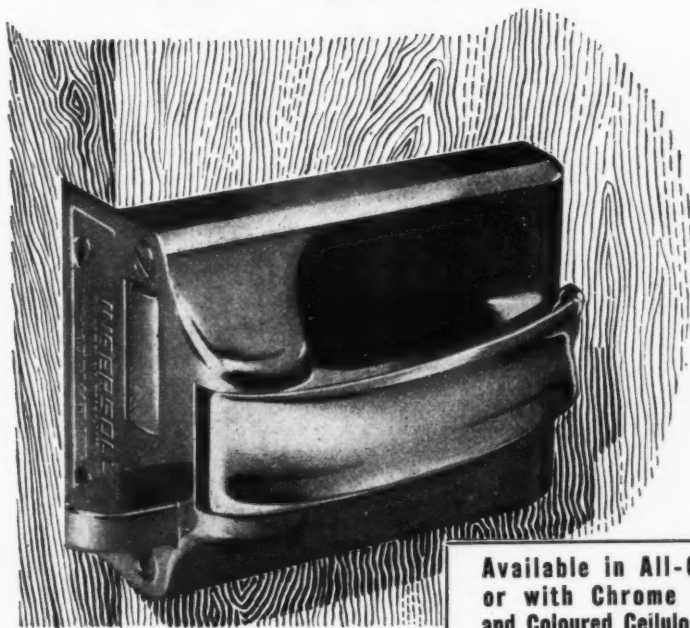
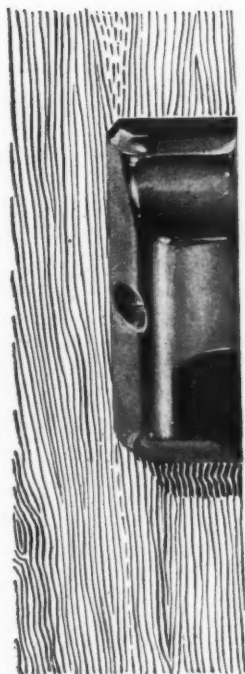


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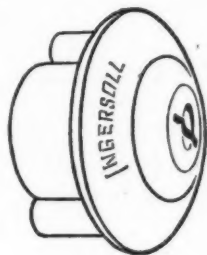
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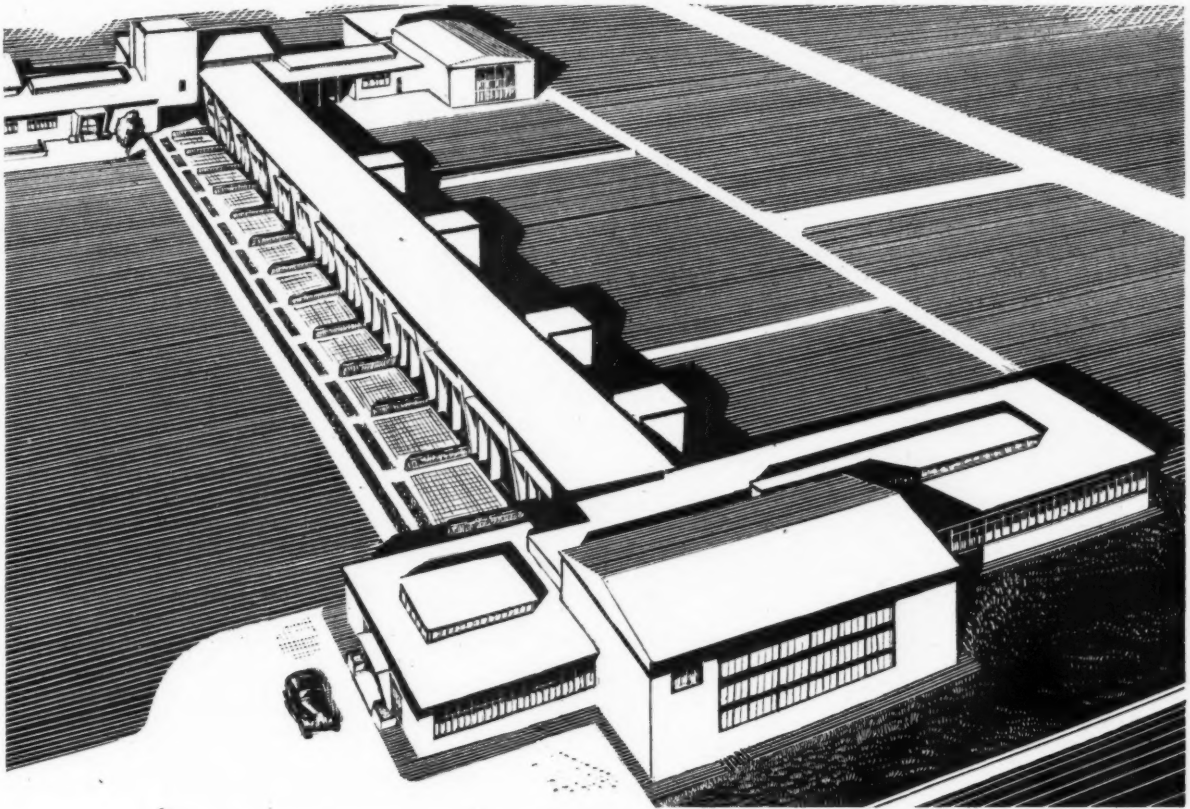
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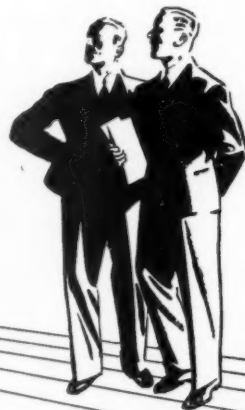
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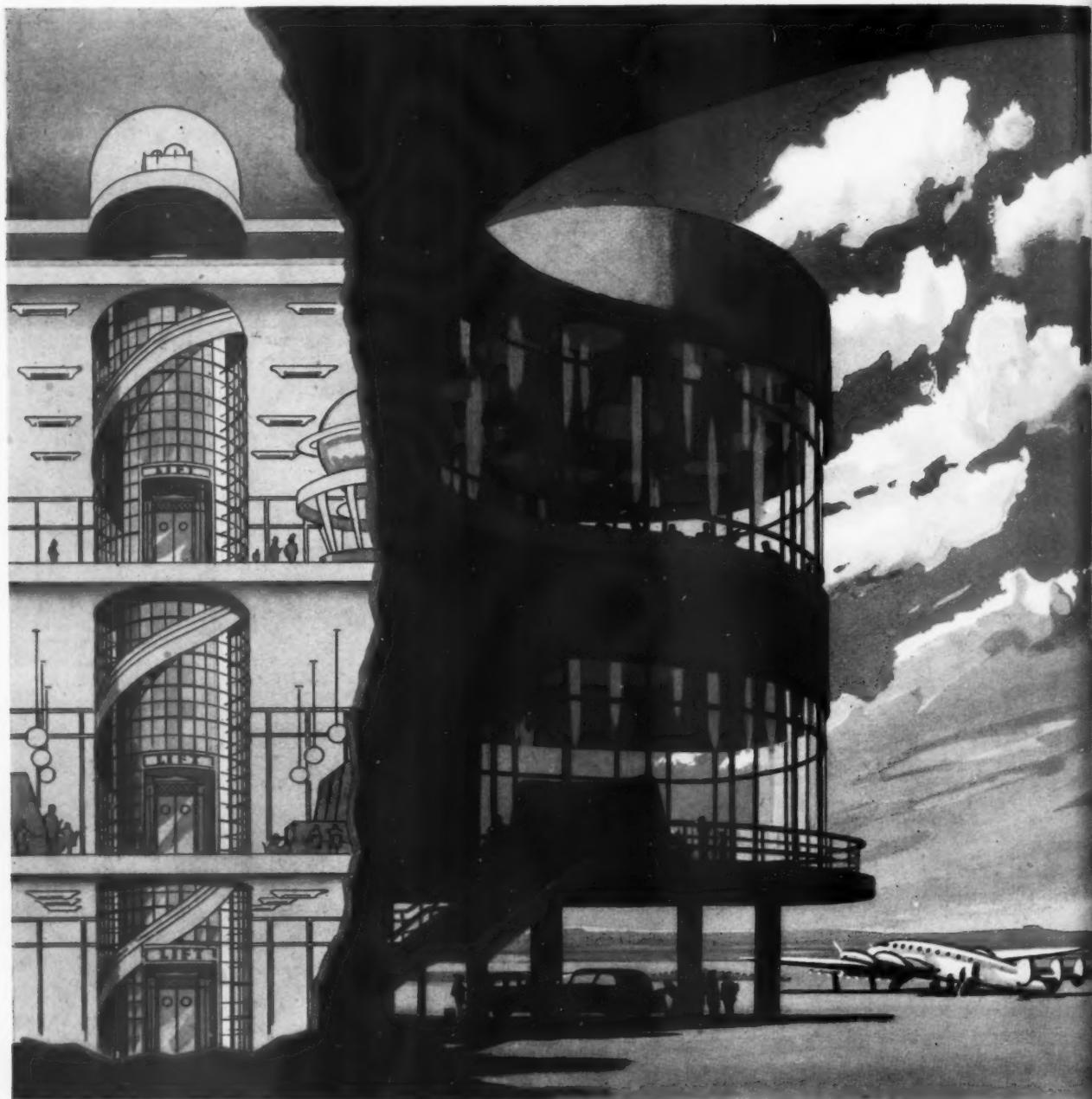


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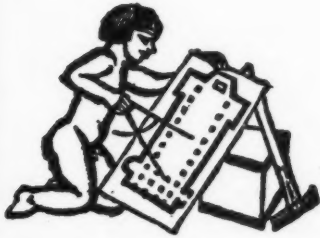
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In common with every other periodical this JOURNAL is rationed to a small part of its pre-war needs of paper. Thus a balance has to be struck between circulation and number of pages. We regret that unless a reader is a subscriber we cannot guarantee that he will get a copy of the JOURNAL. Newsagents now cannot supply the JOURNAL except to a "firm order."

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DIARY FOR APRIL MAY AND JUNE

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

BILSTON. *History of the British Playhouse.* At the Art Gallery. (Sponsor, the Arts Council.) Until APRIL 16

BRIGHTON. *Architectural Students' Association Congress.* (Sponsor, Arch. SA.) APRIL 8-14

GLASGOW. *Scottish Fuel Efficiency Exhibition.* At Kelvin Hall. (Sponsor, Glasgow Corporation.) Until APRIL 5

GLYNNEATH. *Some Pictures from a Small Welsh Town.* At the Miners' Welfare Hall. (Sponsor, the Arts Council.) Until APRIL 5

LONDON. *Steel Door Frames.* Exhibition at Henry Hope and Sons, Ltd., 17, Berners Street, W.1. The object of the exhibition is to overcome any practical difficulties that architects may foresee or experience in fitting steel door frames to the various types of walls and floors in use to-day. (Sponsor, Henry Hope and Sons, Ltd.) APRIL

Recent Paintings by Michael Ayrton and Humphrey Spender, and *Original Lithographs* by Bonnard, Lautrec, Vuillard. At the Redfern Gallery, 20, Cork Street, Burlington Gardens, W.1. Until APRIL 5

Daily Herald Modern Homes Exhibition. At Dorland Hall, Regent Street, S.W.1. (Sponsor, Daily Herald.) Until MAY

L. C. C. Rayner. *Noise Control in Heating and Ventilation.* At Room No. 1, Gas Industry House, S.W.1. (Sponsor, IHVE, Associate Members and Graduates Section.) 6 p.m. APRIL 8

John Summerson. *How We Began—The Early History of the AA.* At the AA, 34-36, Bedford Square, W.C.1. (Sponsor, AA.) 7.45 p.m. APRIL 16

Rt. Hon. Oliver Lyttelton, M.P. *Production.* At the Royal Society of Arts, 6-8, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. APRIL 16

G. T. Pound. *Planning for Daylight.* At Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 5.30 p.m. APRIL 17

Visit to the London Brick Company's works at Stewartby, near Bedford. The party will depart from No. 36, Bedford Square at 10 a.m. and return at approximately 6.30 p.m. Transport (coach) and luncheon will be provided free of charge. As the numbers are strictly limited, members are urged to send their names to the

Secretary of the AA as soon as possible. (Sponsor, AA.) APRIL 17

P. W. Macfarlane. *Planning for Industry.* At the Livingstone Hall, Broadway, Westminster, S.W.1. (Sponsor, TPI.) 5.30 p.m. APRIL 17

Miss Caroline Haslett, Director, Electrical Association for Women. *Electricity in the Home.* At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. APRIL 23

E. J. B. Lloyd. Director and Secretary, Lewis's Investment Trust, Ltd. *Distribution.* At the Royal Society of Arts, John Adam Street, Adelphi, W.C.2. (Sponsor, RSA.) 5 p.m. APRIL 30

Professor A. E. Richardson. *Architectural Convention and Convenience.* At University College, London (The Architectural Theatre), Gower Street, W.C.1. Chairman, Frederick H. Hiorns. (Sponsor, Chadwick Trustees.) 2.30 p.m. MAY 1

British Industries Fair, 1947 (Lighter Industries.) At Earls Court and Birmingham. (Sponsor, Exhibitions Branch, Export Promotion Department, Board of Trade, in collaboration with the Birmingham Chamber of Commerce.) MAY 5-16

NEWCASTLE-UPON-TYNE. Danish Domestic Design. At Laing Art Gallery. (Sponsor, the Arts Council.) Until APRIL 13

SHEFFIELD. J. S. Pickles and W. H. Wills. *Rural Electrification. The Use of the Single-Phase System of Supply.* At the Royal Victoria Station Hotel. (Sponsor, IEE, Sheffield Sub Centre.) 6.15 p.m. APRIL 30

ST. IVES. *Designs for Ballet and Theatre* by Leslie Hurry. In the New Gallery Crypt. (Sponsor, the Arts Council.) Until APRIL 14

SUFFOLK. *Five-day Tour to Study the Problems, Methods and Possibilities of Planning Social Development.* The study will be based on the published Planning Survey and with the co-operation of the County Planning Officials. The headquarters for the tour will be A. S. Neill's School, Leiston. Cost, inclusive of coach tours and lectures, 70s. Details from the Ethical Union, 4a, Inverness Place, W.2. APRIL 8-13

WATFORD. *Housing Exhibition.* At the Town Hall. (Sponsor, Watford Corporation.) APRIL 16-19

NEWS

THURSDAY, April 3, 1947
No. 2721 Vol. 105

News	267
Jobs in The Making: Essex School System	268
This Week's Leading Article ..	269
Astragal's Notes and Topics ..	270
Letters from Readers	271
Making Bricks Without Power By Ian Bowen	272
Essex County Council Schools ..	273
Societies and Institutions ..	281
Technical Section	
Information Centre	282
Housing, Materials and Labour. By Ian Bowen ..	283
The Industry. By Philip Scholberg	285

Though no feature in the JOURNAL is without value for someone, there are often good reasons why certain news calls for special emphasis. The JOURNAL's starring system is designed to give this emphasis, but without prejudice to the unstarring items which are often no less important.

★ 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.

★★

In the Court of Appeal on March 24, Lord Oaksey, L.J., Lord Justice Morton and Lord Justice Tucker allowed the appeal of the Minister of Town and Country Planning, from the decision of Mr. Justice Henn Collins, who had made an order quashing the STEVENAGE New Town (Designation) Order, 1946. Leave to appeal to the House of Lords was given on terms that the petition of appeal was lodged within four weeks.

Mr. C. W. Key, Minister of Works, has appointed MR. J. DIAMOND, M.P. for the Blackley division of Manchester, to be his Parliamentary private secretary.

The 8/9ths you don't see!



8/9ths of an iceberg, as you may remember, hides itself beneath the surface. And, similarly, there is a great deal of work behind a *really* comprehensive Timber Service that is condemned to 'blush unseen' . . . such as the example we show here: the equipment and expert attention necessary for Bandsaw maintenance. But the satisfying thing with Morris is that you can be sure these vital factors in service are all present and correct.

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From AN ARCHITECT'S Commonplace Book

THE CARPENTERS' FEAST. [From Buddenbrooks, by Thomas Mann.] Autumn came, and the grey walls crumbled to heaps of rubbish, and Thomas Buddenbrook's new house rose above its roomy cellars, while winter set in and slowly waned again. In all the town there was no pleasanter topic of conversation. It was "tip-top"—it was the finest dwelling-house far and wide. But it must cost like the deuce; the old Consul would never have spent money so recklessly. Thus the neighbours, the middle-class dwellers in the gabled houses, looking out at the workmen on the scaffoldings, enjoying the sight of the rising walls, and speculating on the date of the carpenters' feast. It came at length, and was celebrated with due circumstance. Up on the flat-topped roof, an old master mason made the festal speech and flung the champagne bottle over his shoulder, while the tremendous wreath, woven of roses, green garlands, and gay-coloured leaves, swayed between standards, heavily in the breeze. The workmen's feast was held at a neighbouring inn, at long tables, with beer, sandwiches, and cigars; and Senator Buddenbrook and his wife and his little son on Madame Decho's arm, walked through the narrow space between the tables and bowed his thanks at the cheers they gave him. When they got outside, they put little Hanno back into his carriage, and Thomas and Gerda crossed the road to have another look at the red façade with the white caryatides. They stood before the flower-shop with the narrow door and the poor little show-window, in which only a few pots of onions stood on a green glass slab. Iwersen, the proprietor, a blonde giant of a man, in a woollen jacket, was in the doorway with his wife. . . . Thomas paused and pointed with his walking-stick at the great garland far above them. "You did a good job, Iwersen," said he.

The North of Scotland Hydro-Electric Board has lost no time in starting work on the MULLARDOCH-FASNAKYLE-AFFRIC PROJECT, (Constructional Scheme No. 7) approved by Parliament on February 15.

The first major contracts in connection with this scheme have been placed by the Board. The whole of the Civil Engineering Works will be carried out by Messrs. John Cochrane and Sons, Ltd., of London and Inverness. The English Electric Co. has been given the order for supply and erection of three 22,000 kilowatt turbo-alternators for the Fasnakyle generating station. The alternators will be driven by three 33,000 horse power vertical shaft Francis turbines. Arrangements are also completed for the erection of the camps, which will house the peak number of 2,000 men, who will build the dams and power stations, and drive the tunnels which will carry the water from Loch Mullardoch to Loch Benevean and from Loch Benevean to the Power Station at Fasnakyle. Preliminary negotiations in connection with the transmission of electricity produced by this scheme from Fasnakyle to Beaulieu have commenced. The Board is also pressing ahead with its other major projects. At Loch Sloy men are working night and day on the tunnel through Ben

Vorlich. The foundations of the generating station at Loch Lomondside are being excavated, and work will soon start on the diversion of the main Balloch-Crianlarich Road. Plant which will be used in the construction of the dam at Loch Sloy is being assembled on the site, and work will commence in the near future. At Pitlochry the site of the Clunie power station is being excavated. Preliminary tunnelling in connection with the 23 ft. diameter Clunie tunnel which will carry water from Loch Tummel to Clunie Generating station is being carried out. Work is also starting on the Clunie Dam at the east end of Loch Tummel. The construction of a cofferdam will be begun next month. At Fannich, accommodation camps are under construction, and the diesel power station plant which will supply electricity during construction of the project is being assembled. The contract for the 3½ mile long 10 ft. diameter tunnel has been placed with Balfour Beatty and Co., Ltd.

The proposals, which include the appointment of Dr. Charles Holden as architectural consultant, were described on page 245 in our last issue.

★

The Minister of Town and Country Planning, Mr. Lewis Silkin, has decided to make an order under the New Towns Act, designating HARLOW, Essex, as a site for a new town.

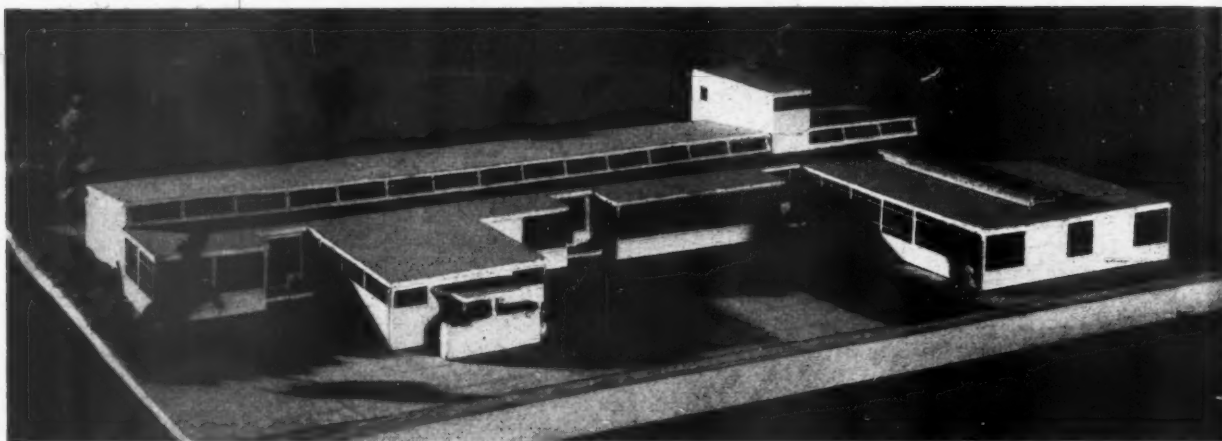
In a letter to local authorities and others concerned the Minister states that certain modifications to the draft designation order, issued on September 27, 1946, have been made. These modifications reduce by 396 acres the area proposed in the draft order, the total area now to be designated being 6,320 acres. The Minister is satisfied that the provision of an adequate water supply will not entail any great engineering difficulties and is clearly advised that provision can be made for the disposal of sewage from the new town in such a way as to prevent additional pollution of the River Lea at the water supply intakes, and to fit in with any proper plan for future development which the Metropolitan Water Board and the Lee Conservancy Board may propose.

★★

The proposals for the development of the SOUTH BANK OF THE THAMES have been adopted by the London County Council, after a council debate in which all the opposition amendments were defeated.



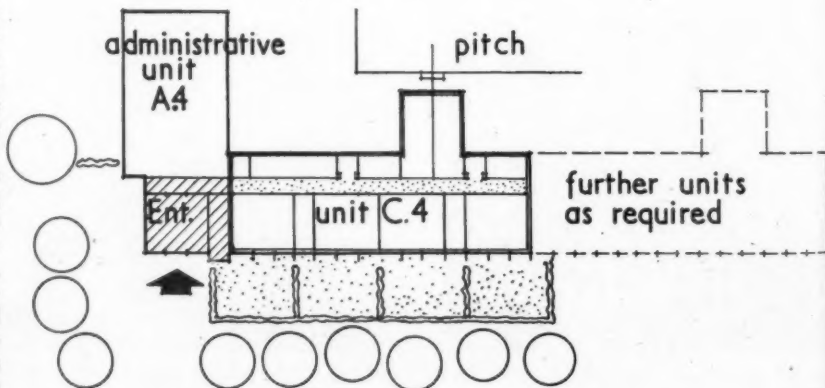
At the RIBA Annual Dinner. Left-hand photograph: from left to right, the Archbishop of Canterbury; the Duke of Wellington; Mr. Clement Attlee, the Prime Minister; and Mrs. Attlee. Right-hand photograph: Mr. Attlee proposing the toast of the RIBA with the President, Sir Lancelot Keay, on his left, and Lady Keay on his right. For report of the annual dinner see page 281.



Jobs in the Making: Essex School System

In this issue of the Journal are illustrated two schools already under construction and also the general scheme for future schools now being developed by the Essex County Council's Architect's Department under the County Architect, Mr. H. Conolly. The two schools now being built on two of the LCC estates at Friday Hill, Chingford, and Grange Hill, Chigwell, are of light steel framework and are based on a standard bay width. In future, however, a unit system will be used by which designs for the various main elements will be standardised but will be connected together differently in each case according to requirements of accommodation and site. Scope for creative effort and variety will be possible by the varying layouts and by the special *in situ* work which will be required at junctions of units. Owing to the scarcity of steel, framework in the immediate future will be of pre-cast reinforced concrete. The system, however, has been designed for flexibility, so that designs can be adapted to different materials both for framing and building, and adjustments quickly made in accordance with the

supply of materials. This flexibility is also important in space planning for present and future use. To begin with, only the most vital units, such as classrooms and lavatories, will be built as an Operational Plan. Above, model of a typical primary school containing operational units only. Below, plan of the model. The entrance is *in situ* work.



In the first Report of the Technical Committee of the National Brick Advisory Council, "Labour Requirements in the Brick Industry." (Stationery Office, 4d.) it is stated that 35 per cent. of the national output of bricks is made in small works using purely manual methods of WINNING CLAY.

The Committee suggests that costs of installing and maintaining new plant will be more than offset by reduction in labour costs, but that the statistics given appear to cover only man-hours a ton of clay or 1,000 bricks; capital costs are not estimated. It is suggested that from 6,000 to 15,000 of the pre-war labour force of 53,000 could be saved, but that the probable figure is nearer the lower limit. The cost involved in bringing the change about is not given, but it is recommended that the Ministry of Works should arrange priority to be given to orders for excavating, conveying, and brick-making plant, help makers of such plant in getting raw materials and labour, and consider whether facilities for making such plant are adequate.

Mr. R. J. Coles, B. Arch., A.R.I.B.A., A.M.T.P.I., has been APPOINTED SENIOR PLANNING OFFICER under Mr. Denis Winston, M. A., B. Arch., A.R.I.B.A., M.T.P.I., Borough Architect of Southampton.

Mr. Coles, who is 28 years of age, was trained at the Liverpool School of Architecture, where he obtained the Degree of B.Arch. with First Class Honours, and subsequently gained the Diploma in Civic Design there. Prior to his appointment at Southampton he held the post of Architect and Planning Officer to the Urban District Council of Newry, County Down, Northern Ireland, where he was responsible for preparing the Outline Planning Scheme for the town and for the council's housing programme. The erection of the first group of houses, which were illustrated in the A.J. for February 14, 1946, was completed early last year, the first of the post-war schemes to be completed in Northern Ireland.



Mr. R. J. Coles who has been appointed Senior Planning Officer to the Southampton Borough Council. See News Item.

RESTORE THE BALANCE

ON April 1, after a year's postponement, the school leaving age was raised to 15. The full effect of this change will not be felt until the autumn, but accommodation for the present number of children is so unsatisfactory that unless positive action is taken now, this long awaited reform may result in a general lowering of educational standards. Nearly half a million more children will have to be crowded into existing buildings, supplemented here and there by temporary huts—if they are ready in time. Some idea of the longer term problem can be obtained from the LCC's Development Plan which involves an expenditure of £187 million and estimates that an average labour force of 12,000 building operatives over eighteen years will be needed.

Since the end of the war housing has been Priority No. 1. In December, 1946, 621,000 building operatives out of a total labour force of 943,000 were engaged on housing work and according to the White Paper on the 1947 Housing Programme this 60 per cent. proportion is to be maintained during the present year. It is, however, during the next six months that labour and materials will be required most urgently on completing repairs to existing school buildings and providing temporary accommodation for the overflow. Housing was quite rightly first in the field with its demand for labour and materials and it requires considerable courage now to switch any of its resources over to another claimant, but if the legislative advances in education are to have any meaning at all a reassessment of relative priorities is essential. The only alternative is to increase the labour force available for building and the production of building materials by a reduction in the size of the armed forces and a greater intake of trainees.

The need for a reassessment of priorities, whatever the size of the total labour force, can be justified on a long term basis as well as for the emergency period. Where new houses are built new schools will be required, particularly where the sites are at present undeveloped and the aim should be to have the schools ready at the same time as the houses. The proper education of the next generation is such an important factor for the future progress of the country that it calls for sacrifices from older generations.

Decisions of this character will have to be taken at the highest level; the Ministry of Works could not be expected to make radical adjustments to the priorities at present given to the work of other government departments. The need for an economic planning staff to sort out the nation's industrial priorities has, under the stress of the recent crisis, become generally accepted; the case for a similar selective process for building projects is equally strong. For the problem is not limited to schools alone. As well as schools, new factories and offices must be built; there are new road works required urgently to relieve increasing traffic congestion particularly in central urban areas; there are health clinics, community

centres, day nurseries—projects which will benefit the community as a whole and which cannot be delayed indefinitely without causing inconveniences and hardships which in the long run may be more harmful than those caused by the housing shortage. Up-to-date educational, social and health services are no substitute for good housing but until the houses are ready they can do much to ameliorate the evil effects of overcrowding.

All these claims now require careful examination in order to settle relative priorities. So far housing has overshadowed all other demands on the building industry. The time has now arrived to restore the balance so that equally essential and urgent projects are not neglected.



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ROUND TWO

Mr. Silkin having lost round one of the Stevenage satellite belt has now won round two. The appeal against Mr. Justice Henn Collins' decision has been allowed. The coulisses of MOTCP hum once more.

At the time of going to Press it is not yet certain whether there will be a round three or not. We shall know within the next few weeks whether the objectors intend to appeal to the House of Lords. If they decide against an appeal, the decision will remain in Mr. Silkin's favour, and work may be expected to begin in earnest in June.

Supposing, however, round three is against Mr. Silkin? Presumably amending legislation will be brought to make a victory for the Minister certain; but those wishing to move into the new town will have to wait several months longer.

BOTTOMS OF SACK

"Bottoms of Sack" or "Bottom of Sacks"—culs-de-sac or cul-de-sacs—I rang up the French Institute to find out what was the plural of cul-de-sac. Answer, culs-de-sac. How many Architects know the fight that was needed to introduce the cul-de-sac as an alternative to the Bye-law street. Chief Protagonist in the battle was Barry Parker, F.R.I.B.A., P.P.T.P.I., who died at his home at Letchworth on February 21, at the age of seventy-nine.

With his brother-in-law, the late Sir Raymond Unwin, Barry Parker was commissioned to design the New Earswick Garden Village for Joseph Rowntree of York. Here they worked out on the ground the principles of estate lay-out which have since been adopted all over the country.

"Economy of Road" was Barry Parker's motto. The cost of road per house has far more bearing than the cost of land per acre. So he fought the grid-iron lay-out with its waste of frontage of each cross road. He introduced instead the reverse-curve and the cul-de-sac which formed the basis of his designs for Letchworth and Wythenshaw. He showed that sensitive imaginative treatment of estate development could also be good business.

This was the basis of his philosophy. "Every advance in town-planning," he said at his Presidential address to the Town Planning Institute in 1929, "is from personal gain at the expense of communities towards personal gain as members of communities."

PUBLICATIONS RECEIVED

Design Digest [3 issues] discloses that the CID now possesses a loan library of 6,000 photographs, and announces a one-day conference on packaging; the Newsletter of the Manchester Society of Architects discusses new applications of reinforced concrete in France and Germany, while MKR's Weekly [again 3 issues] reveals that the Museum of Modern Art is almost as torn with internal dissension as the AA used to be, quotes Astragal, and describes an interesting experiment from Andover [Mass.]. Apparently the directors of the local art gallery there are inviting a series of painters to come and stay for a while at Andover, and the gallery is then given the chance of choosing one or more pictures which are the results of the visit.

*

The annual report of the York Georgian Society discloses increasing prosperity, but lack of suitable premises; the Georgian Group, on the other hand, has, according to its interim report, succeeded in finding a new home. In the South African Municipal Magazine we are taken on a trip round Wembley's Public Cleansing Depot, given an interview with Mr. Beaudouin, townplanning adviser to Capetown, and shown a photograph of a mechanical stunning pistol for use in abattoirs: the June issue of *Plan* [delay beyond control of editors, they say] is as modishly produced as ever, and contains an illustrated review in the furnished rooms section of *Britain Can Make It*. Under the heading *Observations*, the editors write briefly: "The general design of this section is good"—and no more.

*

Equally succinct is *Smudges*, the Journal of the Institute of Registered Architects, Melbourne. "Town planning," it says with firm benevolence, "is all very well up to a point."

Which point, *Smudges*? A rond-point, or a sharp point? Petit-point [as worked by the Sharawags] or just that which has no length, breadth, or thickness, but needs a declaratory order?

TOWN AND COUNTRY PLANNING

Although four out of five Englishmen live in towns—some of them presumably from preference—it is a commonplace beloved of Englishmen that we are all countrymen at heart. Whether true or false, is it a fact of which we should necessarily be proud?

Certainly we are told often enough that the life of the countryman is virtuous, clean, and steeped in wisdom, while that of the townsman is superficial, dishonest, and rootless. Certainly, too, the poets and painters of all centuries but the present have allegedly preferred to linger in fields and woods than in market places and busy streets, and, for most people, perhaps—though not for the sharawag—the village cluttering round the church will always be more picturesque than the pinnacles of the Strand or the chimneys of Manchester.

But in *The English Townsman* (Batsford, 12s. 6d. net), as its title implies, the opposite view is upheld. The late Thomas Burke who wrote it completing it just before he died, was a townsman and proud of it. Towns, he says, may not be as old as the hills, but they are often older than villages.

Townsman, he admits, often do silly and dishonest things—but none so odious—see the statistics—as those committed in the country. While as for beauty, romance, and poetry, what meadow—which obviously leads nowhere—can compare in the qualities, as Chesterton asked, with the street which leads who knows to what mystery.

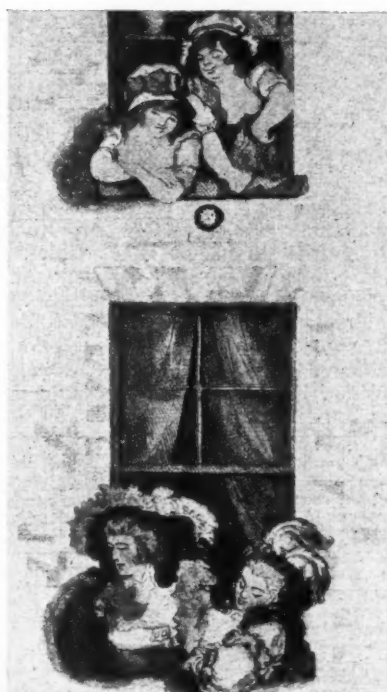
Pursuing this theory like an electric hare, Mr. Burke hurries us through the centuries from mediæval times to the present day. He informs those of us

who chafe at the discipline of Transport House that this is nothing compared with the tyranny of the 14th C. guilds and the apprenticeship system.

He reminds us that Mrs. Grundy, still so often encountered in local government, is a direct descendant of the 17th C. puritan, and that the servant problem was almost as difficult and as frequently discussed in the 18th C. as it is today. He points out how excellent was the work carried on within the gaunt and hideous walls of the 19th C. mechanic's institute, and how vividly the experiences of the blitz revealed the steadfast character and traditional good humour of the English townsman of today. As for Mumford and other gloomy prophets—out they go, neck and crop and all.

Gossipy, informative, and extremely readable, *The English Townsman* succeeds admirably within its modest limits, in conveying the author's affection and enthusiasm for his subject. There are over 100 entertaining illustrations—one of which is reproduced on this page.

ASTRAGAL



First and Second Floor from a print of 1791. *The English Townsman* by Thomas Burke (Batsford, 12s.6d.)



LETTERS

R. F. Leather,
(Sales Development Manager, Pilkington Bros., Ltd.)

J. C. Pritchard

Rachel Caro; A.R.I.B.A., A.M.T.P.I.

Double Glazing

SIR.—In the second paragraph of his letter, Mr. Hughes rather implies that I had indicated that the cost of double-glazed prefabricated units is prohibitive. If, however, he will read my letter again, he will see that I made two points in this connection, first, that it was the hermetically sealed units produced in Canada and America that were prohibitive in price, and, secondly, that we were in the process of carrying out development work with a view to the production of a hermetically sealed unit for popular use.

With regard to the first point, it is, of course, a matter of opinion as to whether an article is prohibitive or not, but Mr. Hughes may be interested to know that today's price for a Thermopane unit in $\frac{1}{8}$ in. sheet glass 2 ft. x 2 ft., is \$8.64 FOB Rossford, USA, and, secondly, my reference to the production of a unit for popular use was intended to imply that when such a unit was on the market it would be at a popular price.

With reference to Mr. Hughes' remarks on the use of Prestik with an asbestos spacer, this general method has been used for some time and is satisfactory under certain conditions. We were making up experimental units in this manner in 1938, but discarded the process for various reasons, one being that we were not satisfied that it would stand the test of time. Furthermore, the use of asbestos as a spacer, which, incidentally, is covered by our British Patent No. 518,382, presents certain difficulties. The material must be baked before being used if the hygroscopic properties are to be obtained (and there is no other reason for using asbestos), the unit must be completed while the asbestos is still hot and in a reasonably dry atmosphere, and the outside edge must be sealed also while the asbestos is hot, otherwise it will absorb moisture, which will be transmitted to the inside of the unit, producing condensation.

None of these difficulties is insuperable, but we believe that out of the large number of materials which can be used as spacers, and the even larger variety of adhesives which are available, we shall evolve a simple and effective unit at a popular price.

The requirements are that the seal must be truly and durably hermetic and the air

enclosed must have a dew-point at least as low as the lowest temperature reached in service at the inside face of either glass.

Finally, I should like to utter a word of warning. It is a simple matter to stick two pieces of glass together with a spacer, making up a "sealed" unit, but it is quite another matter to be able to assure your customer that the unit will remain good and not require replacement more often than he would have to replace single windows by reason of, say, accidental breakage. This is a stringent requirement and such an assurance can only be given after the most careful research and development and grueling long period tests.

R. F. LEATHER,
Sales Development Manager
Pilkington Bros., Ltd.
St. Helens

District Heating

SIR.—In your leading article on heating you ask:—"Is the central source to be the only method of heating within the house, and how will this affect the house plan?"

I would give an emphatic yes to the first part and say that a new type of plan would probably be desirable, though not necessary.

Combustion engineers will probably agree that a fully controlled boiler or furnace is the most efficient way of providing heat, whether the fuel be anthracite, coal, coke, oil or gas. If this assumption is correct, it means that high temperature radiation as a means of heating is less efficient and more expensive, and that in the interests of fuel economy such means of heating should be discarded.

The problem is, therefore, how to provide the maximum comfort conditions from high efficiency appliances. Our objective should be to simulate in the winter the same conditions as we experience in our homes on a warm summer evening. There are two alternatives, low temperature radiation and convection. Recent opinion seems unanimous in advocating air movement as being of prime importance, and in this country, with its high humidity, air movement is even more important in freeing the house from damp and the atmosphere from stuffiness. I think, therefore, that some form of convection is the more promising. The installation should be designed so that the heat can be varied in different parts of the home.

Experience in Europe, the United States and elsewhere makes it clear that this objective can be obtained economically so as to suit our variable climate on the one hand, and to enable the housewife to concentrate heat into one room should maximum economy be necessary. The basic facts are available, it now remains to translate the experience of others into a form suitable for British conditions. It would be helpful if the Ministries concerned could give a clear statement on the action they have already taken in these matters. There could not be a better opportunity than now to demonstrate new domestic heating methods on a large scale in several different areas in the country so that housewives and others could see what are the alternative possibilities and encourage private enterprise to try out new methods themselves.

London

J. C. FRITCHARD

RIBA Library

SIR.—Now that the RIBA is so widely and universally increasing its activities to form a more and more important centre for the profession, would it not be possible, since there is no longer a labour shortage, to arrange that the library remain open until 8 p.m. as was the case before the war. Many who work in offices would greatly appreciate the chance to read and broaden their knowledge after the day's work.

London

RACHEL CARO, A.R.I.B.A., A.M.T.P.I.

Brickmaking is one of the oldest industries in the country, and still largely conducts its business on the same lines as our grandfathers. Ian Bowen discusses below three recent reports on the industry recently issued by the Ministry of Works.



MAKING BRICKS without POWER

[by Ian Bowen]

In 1947, according to the Housing Programme issued before the coal crisis, brick production in this country was estimated to reach 5.3 thousand million bricks in the year. It is very doubtful whether this output would have sufficed to meet all the requirements of the industry, and by now the position must have deteriorated, with the long stoppage followed by a restricted coal supply.

Yet another headache for the brick industry has been the shortage of labour. At last September there were only 40,500 workers in the industry as compared with 53,000 before the war. An official statement that the pre-war output of bricks can be produced with a labour force "smaller than pre-war by between 6,000 and 15,000" therefore demands very serious consideration.

THREE REPORTS

How is this estimate reached? The answer is buried in three reports just issued by the Ministry of Works. The first two are technical, Paper One being called *Brick-*

making: The Getting of Clay, and Paper Two *Brickmaking: Labour Requirements*. The third paper consists of conclusions and recommendations, and is in fact the first report of the Technical Committee of the National Brick Advisory Council. Rather confusingly, it is similarly entitled: *Labour Requirements in the Brick Industry*, and its main recommendations concern the possible saving of labour to be gained by increased mechanisation of claygetting and haulage.

The report, it should be noted, does not cover the operations of making and firing bricks; a later report is to include recommendations on these items. The only recommendation in the present report that is relevant to that point is that working conditions and amenities should be improved.

OBSOLETE TECHNIQUES

The techniques widely used in this country for claygetting and for haulage are shown to be obsolete and inefficient. 7 per cent. of our brickworks use "purely manual" methods of claygetting. Even where mechanised claygetting is used, little is scientifically known of the merits of the various possible techniques. The detailed investigations of specimen works by Mr. H. H. Macey and Mr. A. T. Green (who wrote Paper One and Paper Two) were evidently hampered by a lack of records and of comparative knowledge among the managers of the industry, but the figures which they have produced sufficiently illustrate the need for improved mechanisation.

MAN-HOURS PER THOUSAND

The information on the forty or fifty individual works investigated is summarised in the statistical appendix of the Report a summary that is not quite so clearly set out as the carefully drawn up tables of Messrs. Macey and Green). In stiff-plastic works the man-hours needed per thousand saleable bricks produced ranges from 11.64 to 18.97; for the wire-cut process the range is even larger, from 6.77 to 28.14. The very large semi-dry process works record figures as low as 5.5 and 7.92, but the smaller semi-dry works showed much higher figures.

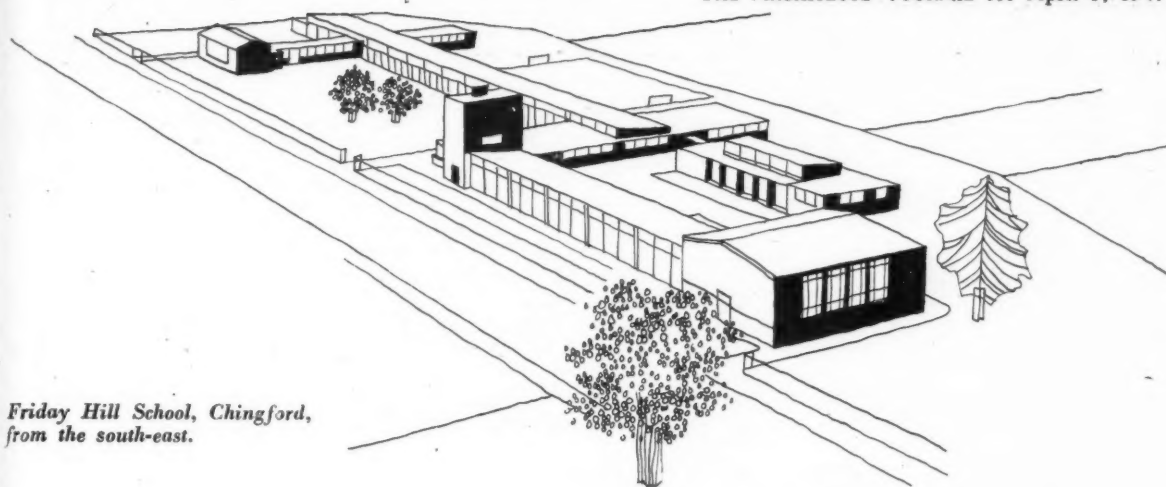
The information is illuminating but not conclusive. The industry, for reasons that no doubt seemed very good to it, has not disclosed results that are necessarily typical or representative, and one cannot say how far the high man-hour figures denote inefficiency or exceptionally difficult conditions or both.

OLD-FASHIONED AND UNPROGRESSIVE

But enough of the veil has been lifted to show a picture of an old-fashioned, unprogressive and ill-equipped industry, mitigated only by the existence of a few large-scale and efficient large plants. "Hand-tramming" or "horse-tramming" still survive in conditions where they are far from economical. If the claygetting and haulage sections of the works could yield considerable economies in man-power, it may well be supposed that the works as a whole could reduce even further their fuel as well as their labour demands.

The next report should not be too long delayed, and the Government should show less caution in its publishing side. These reports have taken much too long to produce; the figures mostly appear to relate to 1942. Someone has been sitting on them too long. The tempo of report followed by action needs to be speeded up by just about 300 or 400 per cent.

Frida
from



Friday Hill School, Chingford,
from the south-east.

ESSEX COUNTY COUNCIL SCHOOLS

GENERAL.—The County of Essex has a school building problem probably unique in this country for its combined size, urgency and difficulty. The LCC housing programme envisages some 20,000 houses on five estates to be built in the next four years, and work is now proceeding on four estates. Three satellite towns are intended when the Greater London Plan matures and each local authority in the Administrative County also has its own housing scheme. The LCC Estates in Essex will alone need some 50 to 60 schools. This year 30 new schools are required. All methods of producing schools, or parts of schools, quickly, have been studied. Two prototype permanent light steel construction primary schools are already being built at Chingford and Chigwell, drawings of which are shown here. Their development has provided useful information and experience. The work illustrated is by the County Architect of Essex, H. Conolly, F.R.I.B.A., and the following team:—D. Senior (Deputy County Architect), E. T. Ashley-Smith (Chief Assistant Architect, Education), J. Nicholls, G. L. Thompson, W. C. B. Smith, A. W. Cooper, A.A.R.I.B.A. This team has been assisted on perspectives, sketches and models by M. M. Crammond, R. P. Ferguson, R. F. S. Fenton, E. V. Banks, A. Reed, C. H. Schutte.

PLAN DEVELOPMENT.—The PWB Report by the Wood Committee on *Standard Construction of Schools* indicated two methods of approach. In the first each school

is planned with a completely connected framework to which the whole of the plan conforms. This has disadvantages. The 8-ft. 3-in. grid is uneconomical in the planning of spaces to meet exactly the requirements of the Ministry of Education's Building Regulations and it presents difficulties at changes in levels of floors and roofs. It is, in fact, too inflexible, both in plan and section.

In the second approach of the Wood Report a school is conceived as a group of separate plan units either connected by *in-situ* work or left unconnected. This offers a solution to the immediate or Operational Programme of school building in which only the most strictly utility parts will be built. The Essex County Architect and his staff have produced a series of Standard Unit Plans. These Standard Units, which are based on a standard bay 8 ft. 3 in. wide, can be assembled in a great variety of ways. Some examples showing different schools on sites with widely varying characteristics are illustrated here.

In the planning of each Standard Unit the vital principle has been

flexibility, so that varying materials can be used both for framing and cladding. Only thus can the widest use be made of materials as they become available and adjustments made as other materials become restricted in supply. The flexibility is also important in the planning of space for present and future use. Possibilities of further extensions and revisions have been kept in view.

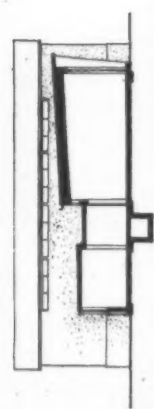
PLANNING UNITS.—Of the Standard Unit plans for Primary Schools the following are typical:—
(a) Classrooms with cloakrooms, ablutions and drying rooms.
(b) General purpose rooms with cloaks, ablutions and drying rooms.
(c) Lavatory and ablution unit.
(d) Administrative block.
(e) Nursery blocks.

These, with a limited number of other units, are combined to provide the first instalments of any size of primary school required by the Council's programme.

CONSTRUCTION.—When the plans for the two prototype schools at Chingford and Chigwell were prepared official policy advised the use of lightweight steel and pressed steel was selected for structural frames, trusses, trims and for part of the cladding. When the order was about to be placed sheet steel



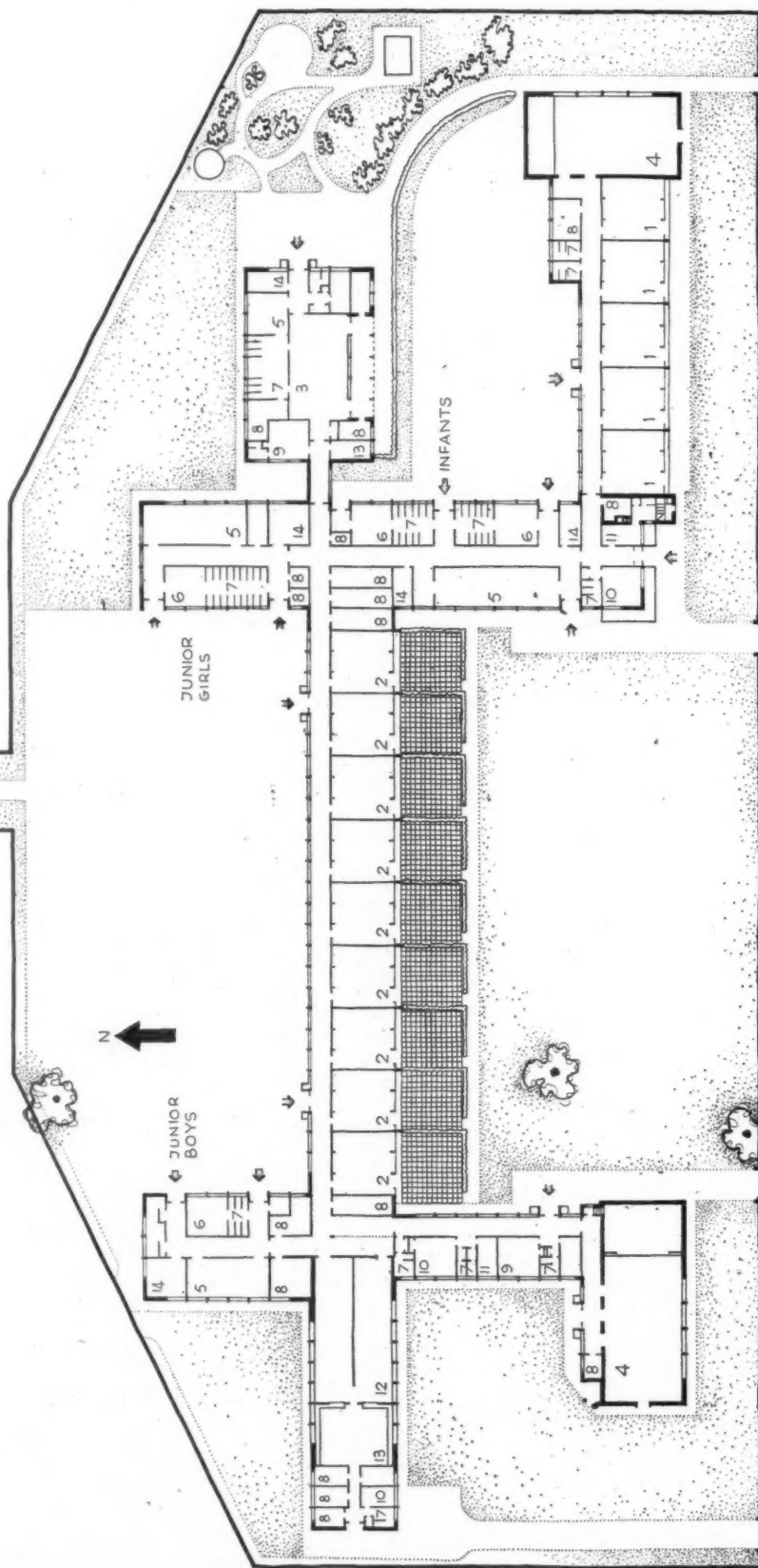
Friday Hill School, Chingford. Classrooms and cloaks from the south-west.



SECTION THROUGH INFANTS' CLASS-ROOM SHOWING WEST ELEVATION OF INFANTS' HALL.
[Scale: 1/4" = 1'0"]



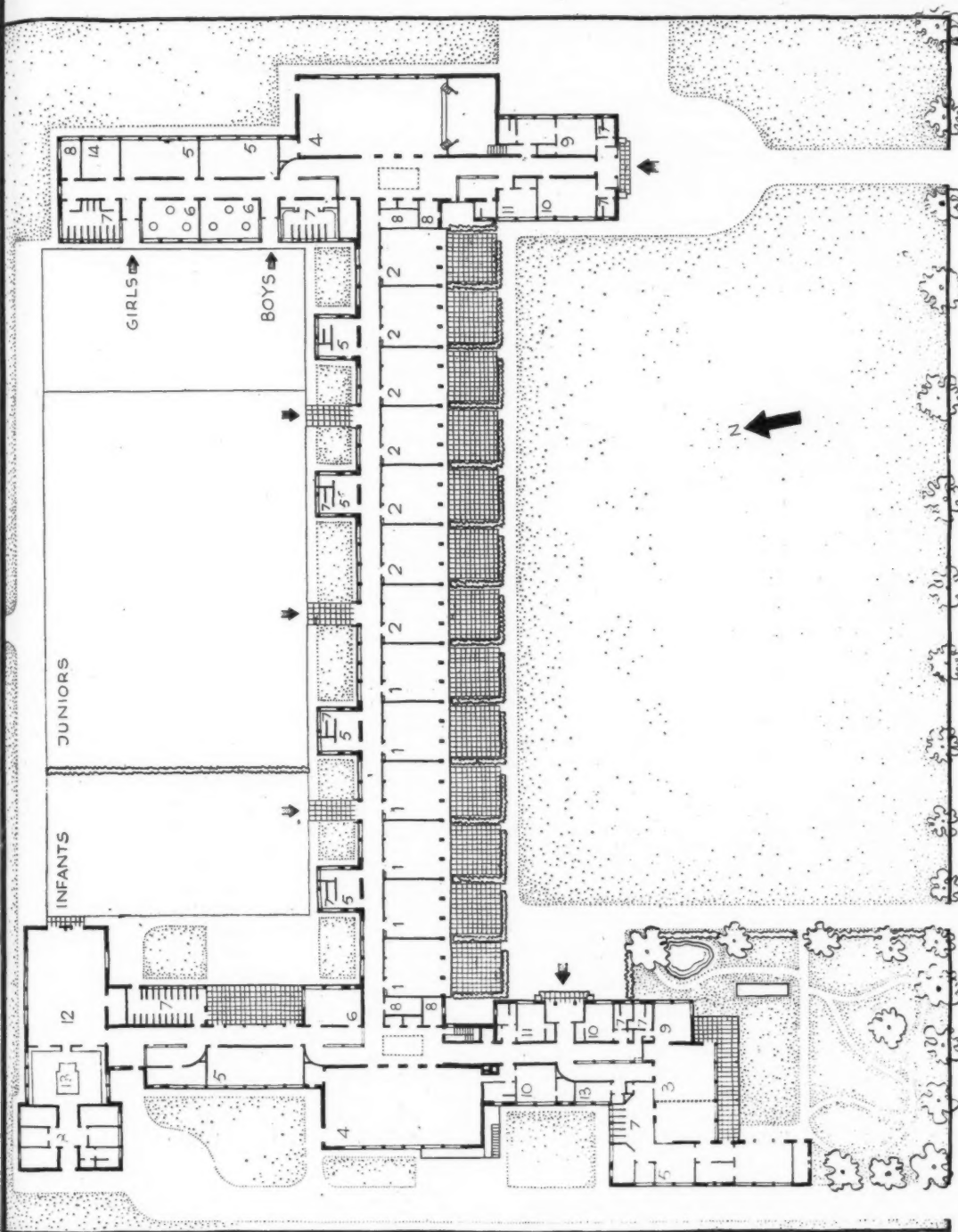
SECTION THROUGH INFANTS' NURSERY
[Scale: 1/4" = 1'0"]



PLAN OF FRIDAY HILL SCHOOL, CHINGFORD

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

This school is now under construction and is of light steel frame. It is a two form entry junior mixed plus five class infants' school plus nursery class. Legend: 1, Infants' classrooms; 2, junior classrooms; 3, nursery; 4, assembly halls; 5, coats; 6, ablutions; 7, W.C.s; 8, stores; 9, medical inspection rooms; 10, staff rooms; 11, head teacher; 12, dining room; 13, kitchens; 14, drying rooms.

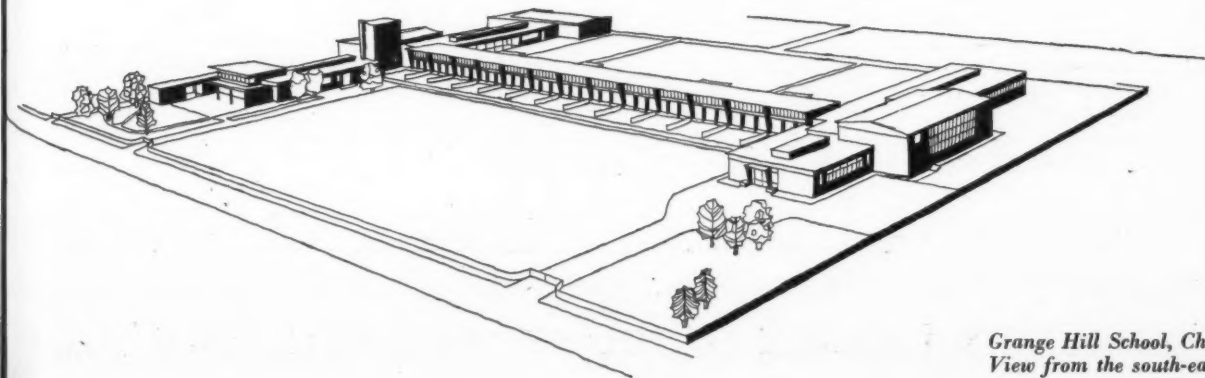


PLAN OF GRANGE HILL SCHOOL, CHIGWELL.
[Scale: 1/4" = 1'0"]

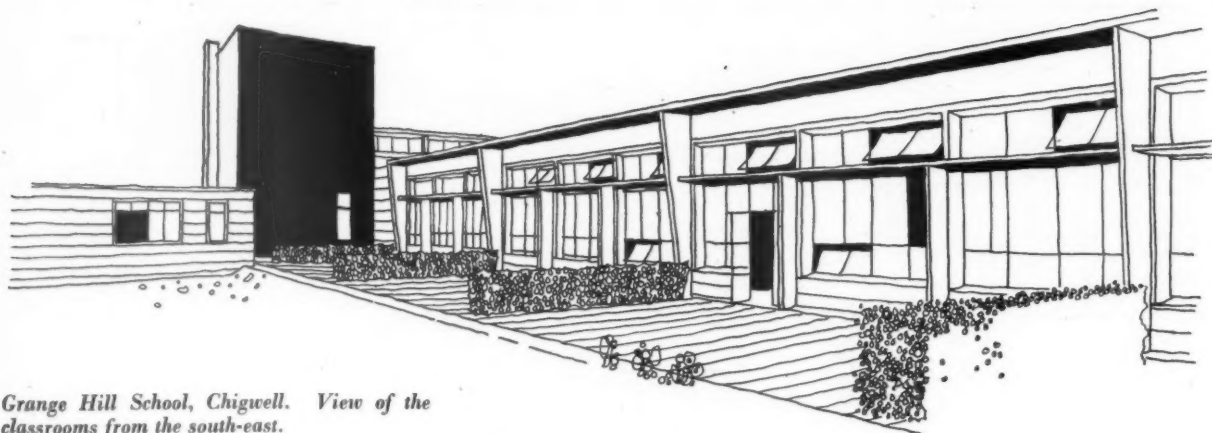
This school also under construction, is of light steel frame, and comprises, as the Chingford school, two form entry junior mixed, plus five class infants' school plus nursery class. The legend is the same as for the Chingford school.



SECTION THROUGH NURSERY WITH ELEVATION OF COVERED PLAY AREA.
[Scale: 1/4" = 1'0"]



Grange Hill School, Chigwell
View from the south-east.



Grange Hill School, Chigwell. View of the classrooms from the south-east.

became very short. Thus, considerable revisions had to be made. A precast reinforced concrete frame and truss has now been designed for the unit plans and this will be used for many single-storey schools in the future.

The outer cladding of the unit schools will be in precast concrete slabs, blocks or bricks. Partitions will be in these materials or in wood-wool, fibrous plaster or lightweight concrete, but so far as is practicable some form of dry construction will be favoured.

LIGHTING.—Although the sectional contour of the unit frame has been designed so that most of the classroom light comes from the south-east, additional light is admitted through a clerestory on the north side. The disposition and quantity of the natural light has been arranged to produce a lighting curve as nearly ideal as possible and at desk level there is a satisfactory lighting curve with a minimum factor of between 4 and 5 per cent.

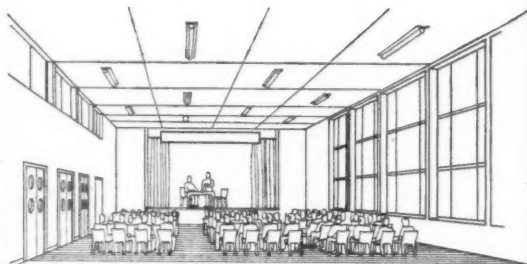
GARDENS.—Space for open-air teaching is planned, with dividing shrubs and gardens. Expert horticultural advice is being sought in laying out and planting school gardens and grounds in which it is hoped to continue the teaching of some form of garden, or Essex rural, activities in many County schools.

BULK ORDERING.—The urgency of the Operational Programme has led to the standard unit planning. A further step to promote quick results is the forward ordering of materials. Such essentials as steel and concrete frames, concrete slabs and roofing slabs are ordered in bulk for such schools as are to be built at once. This helps manufacturers to plan production and relieves the contractor's and architect's anxiety about deliveries.

CHIGWELL AND CHINGFORD SCHOOLS.

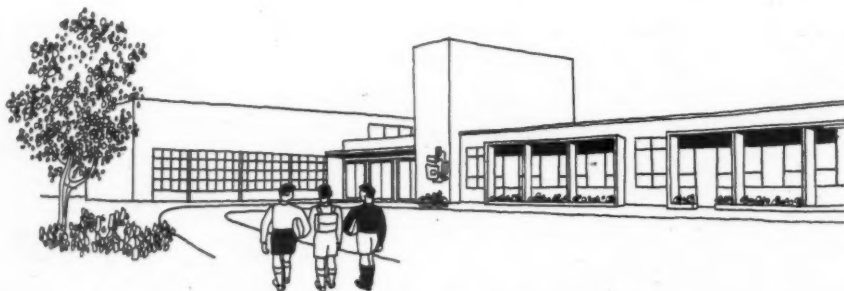
—Both of these, one at Grange Hill Estate, Chigwell, the other at Friday Hill Estate, Chingford, are now under construction and have been designed in accordance with the Ministry of Education's regulations of 1944. They will therefore be of light steel framework. Plans and sections of these schools are shown here but the changed position of light steel supplies has caused modifications in the original designs, and it is not yet possible to publish detailed drawings. At Chigwell walls and roofs are of precast walling blocks and roof slabs. At Chingford external cladding is of stock brickwork and roofs are of light decking covered with built-up felting.

For some years the new large housing estates will not have their full complement of community buildings, and the new schools will be required for the present to serve a number of other public needs, as, for example, for meetings and as health clinics. It is, however, intended to make wide use of other County services as a part of normal school life. For instance, facilities are to be provided in each school



Junior Assembly Hall at Grange Hill and Friday Hill Schools.

for a small juvenile branch of the County Library, and there will be low bookcases in the assembly halls. A nursery wing for 30-40 children is included in each school, with separate kitchen, medical inspection rooms and sanitary unit. In each school, a combined kitchen will serve both infants and juniors. Drying rooms are provided for wet clothes in both infants' and juniors' sections. Classrooms are about 600 sq. ft. in area and each has an outdoor teaching space. A sink is included in each classroom. Junior assembly halls will have a properly equipped stage, and the infants'



The Loughton Borders' Lane Junior and Infants' School, to be built on the unit principle.

ESSEX COUNTY COUNCIL SCHOOLS

halls will each have a portable dais. A combination of tungsten filament and fluorescent lights has been chosen for classrooms and halls.

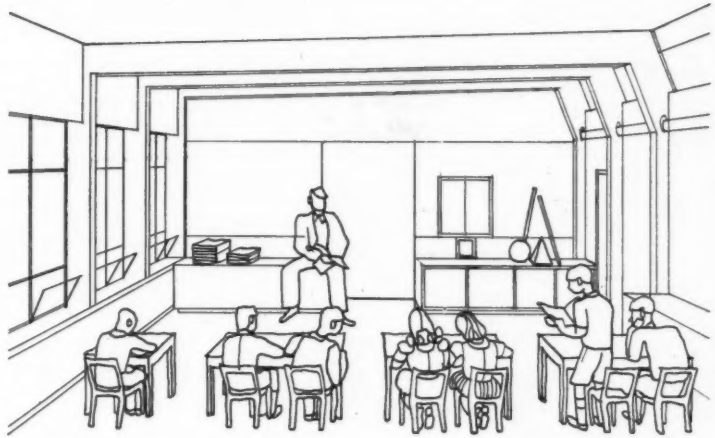
On both sites, owing to the falling ground and the length of the schools, several different ground floor levels are necessary. The various grades are connected by corridor ramps.

At Chigwell an experiment is being tried of a series of dispersed sanitary and cloakroom units for the immediate use of children, in addition to the normal washrooms, toilets and cloaks. Circular wash fountains with foot controls are to be fixed in ablution rooms, and paper towels in containers will replace the old roller towels.

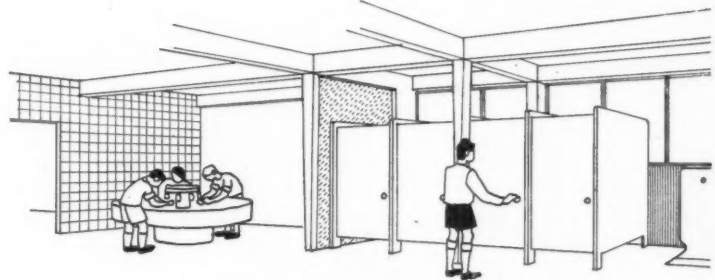
If possible, sanitary units and kitchens will be paved with hard tiles. Assembly halls and corridors will be covered with composition flooring, and classroom floors with linoleum. Ceilings in both teaching rooms and corridors are receiving acoustical correction, as well as thermal insulation.

At Grange Hill School, Chigwell, accommodation will be for 320 juniors, 200 infants and 40 children of nursery age. The contract price is £104,250.

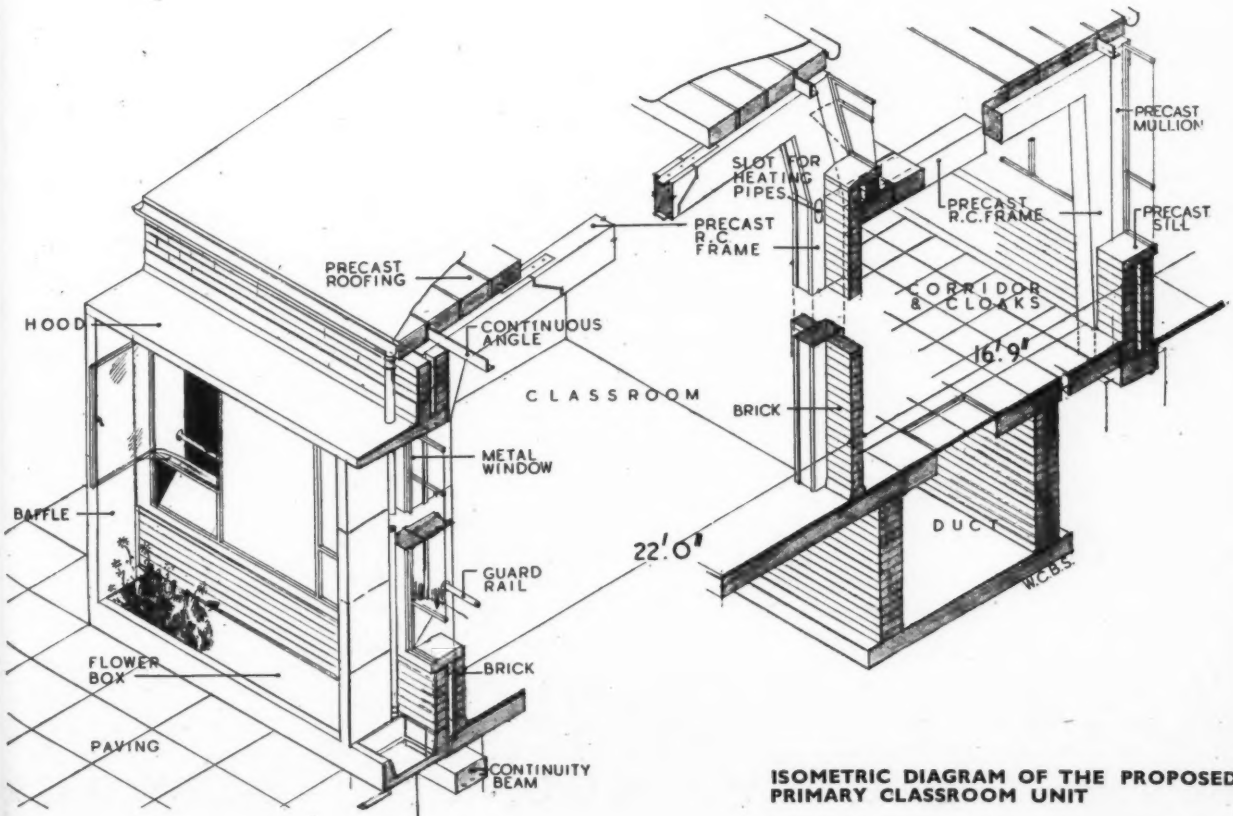
At Friday Hill School, Chingford, accommodation will be for 360 juniors, 200 infants and 40 children of nursery age. The contract price is £102,405.



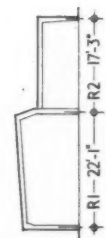
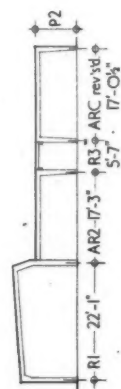
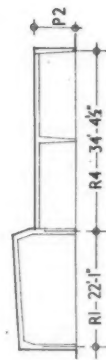
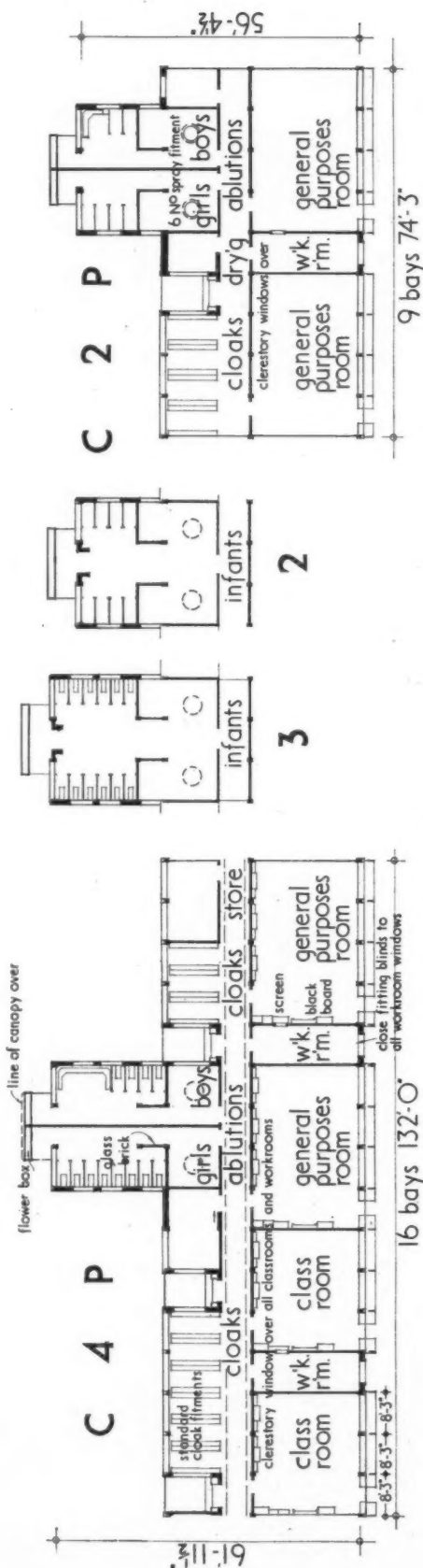
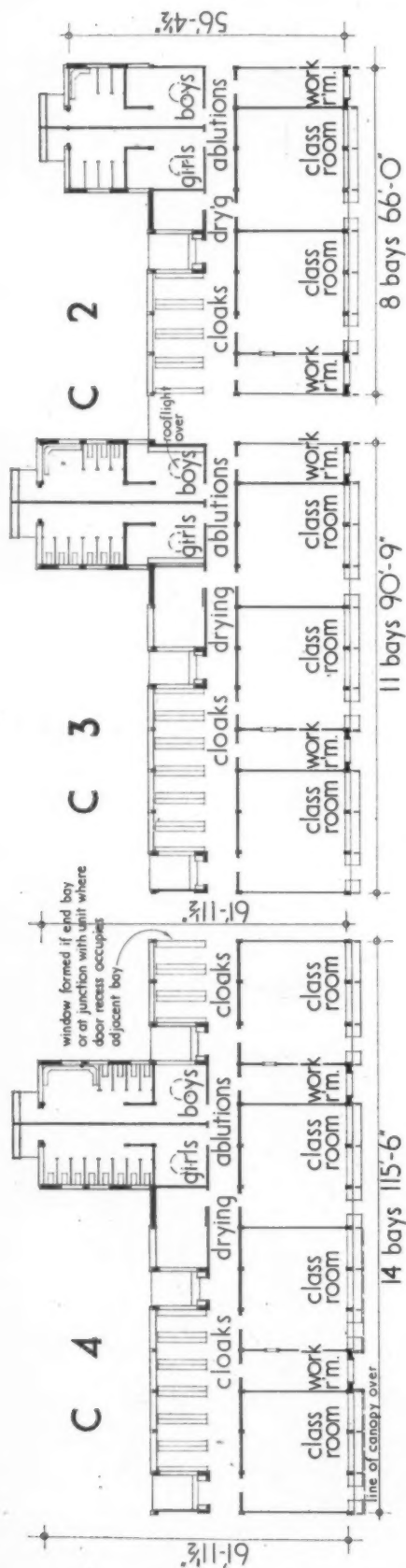
A typical classroom in the proposed unit scheme. Activity teaching is easily arranged and adequate lighting encourages less formal arrangement of tables and chairs. Fittings are largely standardized.



An ablution and toilet unit with its foot-controlled wash fountain.



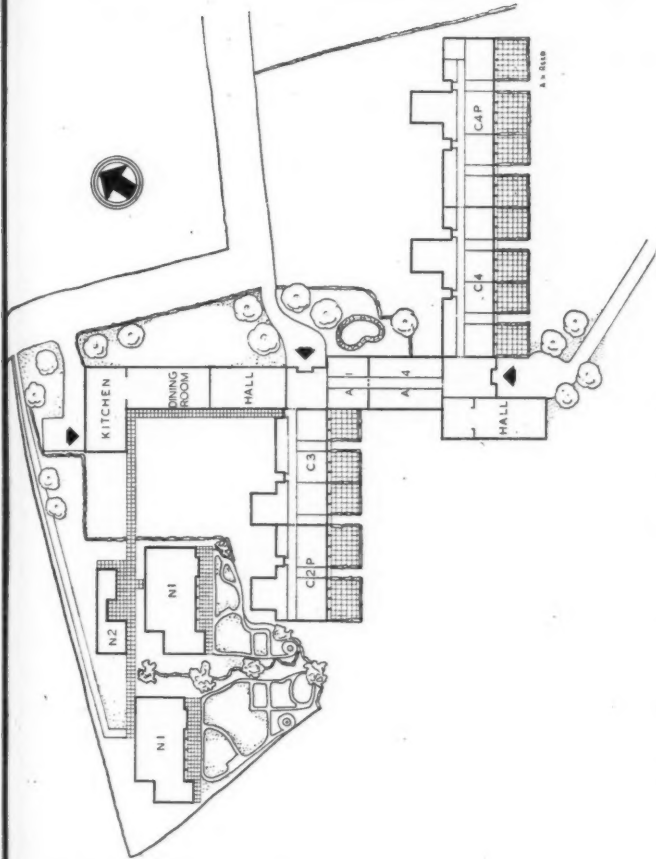
ISOMETRIC DIAGRAM OF THE PROPOSED PRIMARY CLASSROOM UNIT



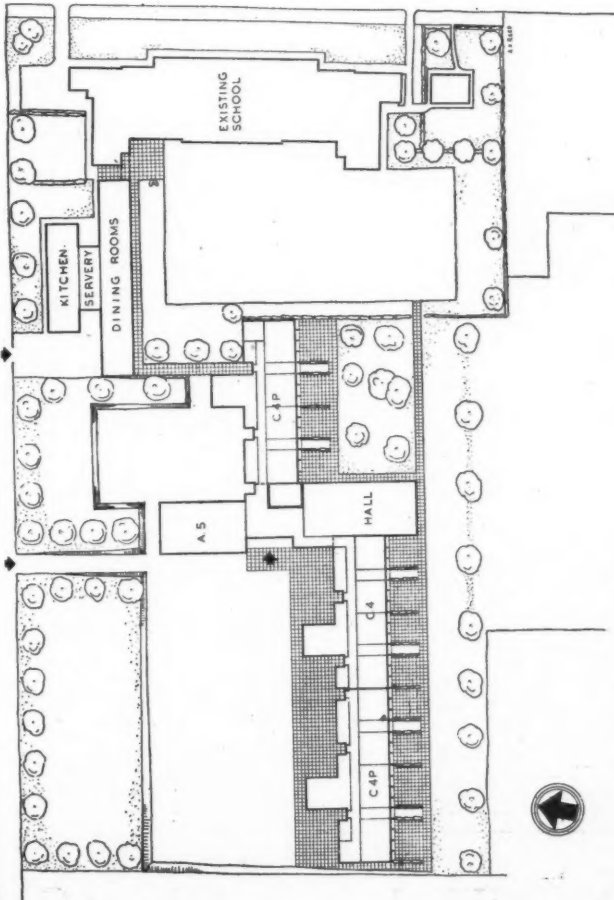
LINE DIAGRAMS OF R.C. TRUSS TYPES

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

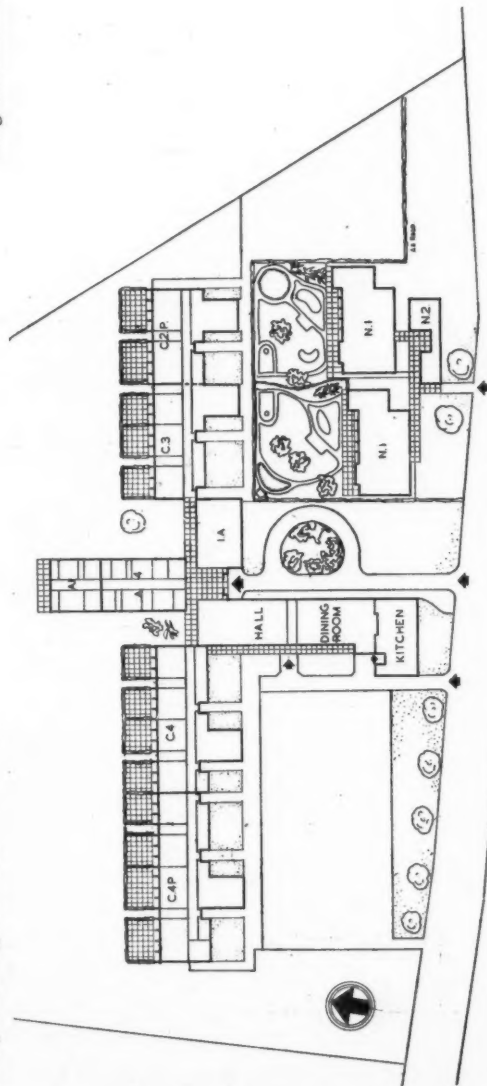
DETAILS OF UNIT PLANS FOR PRIMARY SCHOOL CLASSROOMS, CLOAKS AND ABLUTIONS



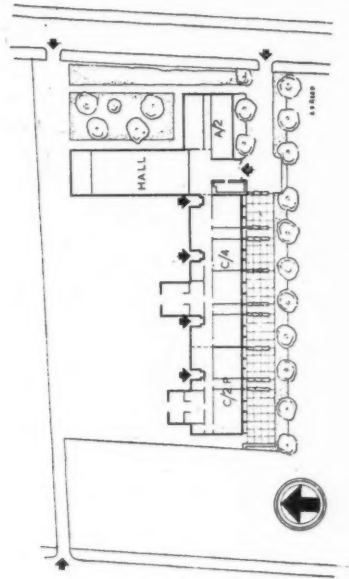
Loughton Borders, Lane Junior and Infants' School.



Romford Straight Road Junior School.

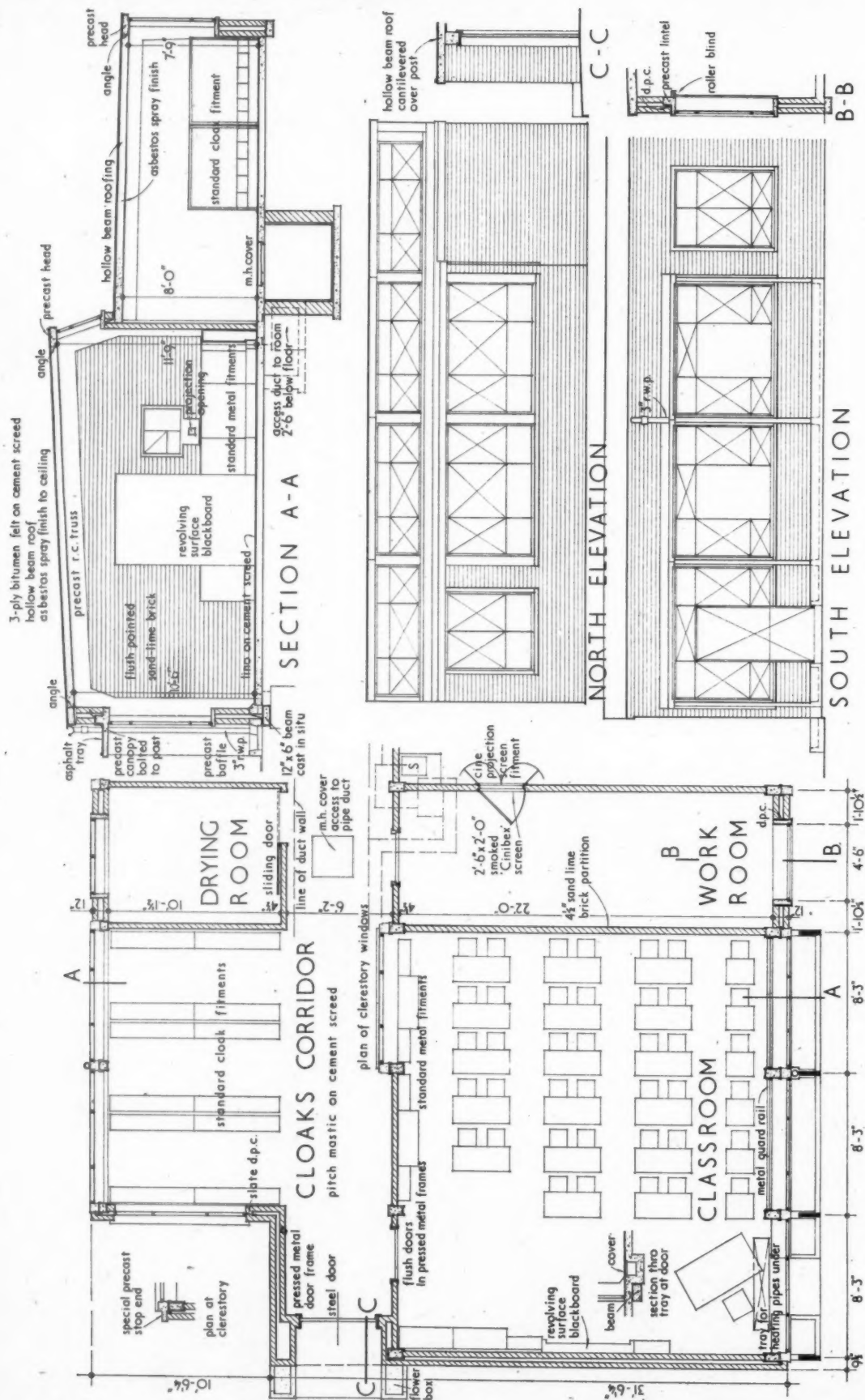


Hornchurch Cranham Junior and Infants' School.



Dagenham Whalebone Infants' School.

TYPICAL PROPOSED SCHOOL PLANS BASED ON THE UNIT PRINCIPLE.
[Scale: 1/16" = 1'0"]



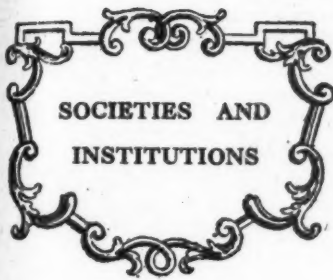
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CLASSROOM UNIT CONSTRUCTIONAL DETAILS IN PLAN, SECTION AND ELEVATION

Speech before report dealt which Govern ment To concern initial tions cover comm summ

RIP De Na

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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 trade associations, Government departments, Parliament and professional societies. To economize space the bodies concerned are represented by their initials, but a glossary of abbreviations will be found on the front cover. Except where inverted commas are used, the reports are summaries, and not verbatim.

RIBA

Deferment of National Service

The following arrangements have now been agreed between the Council of the RIBA and the Ministry of Labour and National Service for the deferment of students of architecture born on or after January 1, 1929.

1. Students pursuing full-time courses at Universities, Technical Colleges and certain other Further Educational establishments.

Students who are already undergoing full-time training in architecture or who have been accepted for admission to a full-time course may be granted deferment for the period necessary for them to complete the full normal course up to the Final Examination, or to prepare for the Intermediate Examination by full-time study and afterwards to proceed to employment in an architect's office and prepare for the Final Examination by part-time or spare-time study.

In order to qualify for such deferment the student must commence his full-time study before his 18th birthday. If, however, he has been granted deferment to remain at school until the end of the summer term to sit for the Higher School Certificate Examination or a comparable examination he must commence the full-time study of architecture within three months of the expiry of that deferment.

Application for deferment in respect of a full-time course in architecture must be made in duplicate on form Misc. 20 to the appropriate University Joint Recruiting Board. Full details of these arrangements are being notified to the Headmasters and Principals of the Technical Colleges and similar institutions, from whom copies of the form and address of the Joint Recruiting Board will be obtainable.

2. Students pursuing part-time courses or training in offices.

Students who successfully complete a course of full-time study to the Intermediate stage and who then wish to complete their training as architects by employment in an architect's office combined with part-time study for the Final Examination will be eligible to apply for further deferment to enable them to complete two years' practical training and to sit for the Final Examination not later than the first opportunity after the expiry of the two years. Shortly before they are due to complete the Intermediate course of full-time study such students should submit a fresh application, on form N.S. 294, for the further deferment necessary to enable them to pursue their period of practical training in an office. This application should be submitted in accordance with the directions printed on the form (which can be obtained from any Local Office of the Ministry of Labour and National Service), and should be accompanied by a letter drawing attention to the fact that the student has hitherto been deferred as a student of architecture for a full-time course up to the Intermediate standard.

Deferment will also be granted, subject to certain conditions to young men employed as pupils or assistants (whether articulated or not) in architects' offices who are bona-fide candidates for admission to the Register of Architects. In such case deferment may be allowed to give the pupil or assistant an opportunity of taking the Intermediate professional examination before performing his military service. The period of deferment may not extend beyond the 21st birthday or where necessary the date of the Intermediate Examination held next after that date. The student must satisfy the following conditions:—

(i) That his training in the office, or under the supervision of a practising architect began before his 17th birthday or within three months of the completion of his full-time general education.

(ii) That he continues to be employed in the office, or under the supervision, of a practising architect.

(iii) That he is pursuing a suitable course of part-time or spare-time study in preparation for the Intermediate professional examination, and is allowed by his employer time off in working hours to the extent of not less than eight hours a week, on average, during the course of his training, for the purpose of attending classes of instruction and/or for private study in preparation for his examination. Where it is not possible for a pupil or assistant to attend part-time day classes at a Technical College or Art School private study should be undertaken in the office under the direction of the employer or a qualified member of his staff. In these cases where the pupil or assistant is able to attend evening classes in architectural subjects it should be possible for him to work in the office on design problems and exercises which form part of the evening course. The distribution of this time off from office duties will be a matter for arrangement between the employer and the student, to suit their mutual convenience.

Architects' pupils and assistants desirous of deferment of call-up under this arrangement should make application on form N.S. 294 obtainable from any local office of the Ministry of Labour and National Service.

3. Periodical review of deferment

Where deferment is granted it will in all cases be subject to satisfactory progress in training and studies, and will be reviewed periodically by the University Joint Recruiting Board or District Manpower Board, as the case may be.

4. Application for Deferment

Application for deferment should be made on the appropriate form immediately after a student, pupil or assistant registers for National Service.

RIBA

Annual Dinner

March 21, at the RIBA. Sir Lancelot Keay, F.R.I.B.A., President, RIBA, and Rt. Hon. C. R. Attlee, HON.F.R.I.B.A., Prime Minister, were among the speakers.

The Prime Minister: Architecture is one of the arts in which I have always been greatly interested, as it is perhaps the most social of all arts, and more than any other, I think, reflects the life and ideas of the community in which the architects practise their profession.

To-day, architects are in a position which inevitably must cause a certain sense of frustration. They are called upon, if not exactly to make bricks without straw, to design buildings with the knowledge that the supply of material and labour is often not immediately available to put into material form their conceptions. They are not alone in this. In almost every phase of our national life we are forced to do far less than we would wish. We often have to make do and mend where we would like to produce something entirely new. But I would say to you, as I have said to others, that these limitations which are placed upon us should not lead to a sense of frustration, should not be regarded as more difficulties, but opportunities.

You are faced with a lack of labour and of materials. When you cannot use traditional materials, you must see how you can get the effect which you desire by unorthodox methods. You may in many instances be driven back upon bare essentials.

But this is essentially a challenge. Out of austerity you have to create beauty, and to my mind many of the most beautiful buildings in the world are so because of their restraint and austerity. In this, I think, they surpass the buildings where there is lavish decoration.

We have to-day in this country a far greater appreciation of the need for planning than ever before, and the architect is essentially a planner. We are to-day trying to plan new cities, and the blitz has given us great opportunities of replanning some of our old cities.

What is the idea we want to see embodied in our architecture? I think it should be beauty, fitness, adventure and a sense of the community. More and more the great buildings which will be erected will be designed not for the sense of pomp and circumstance of an individual, but to meet community needs. They will, I hope, be the expression of a community more equalitarian than any that we have had in this country before. But it is essential that architecture should not be dully utilitarian, but should be the expression of the aspirations of a people that sees wider vistas spreading out before it.

In the planning which we are undertaking in this country, we are seeking to embody in the new Britain the finest quality of the old, and I am sure you architects in your buildings will keep a contact with our glorious past and, while avoiding any slavish copying of what our ancestors have done, will embody the best of the old with the best of the new.

The President: It is a precedent tonight for an official architect to occupy this chair. That I consider quite insignificant compared to another precedent which has been established, the fact that at this Annual Dinner of the Royal Institute we have, for the first time, I believe, in its history, the Prime Minister of this country. We are very grateful for what the Prime Minister has said, and for the encouragement which he has given to architects when he joined architects and planners.

TECHNICAL SECTION

The function of this feature is to supply a digest of, and commentary on, current information of interest to architects as recorded in technical publications and statements of every kind throughout the world. Items are prepared by specialists of the highest authority who are not on the permanent staff of the Journal, and views expressed are disinterested and objective. Items are printed on one side of the paper only to permit of cutting out and pasting up in classified order in readers' files. The Editors welcome information on all developments from any source.

INFORMATION CENTRE

To enable items to be filed all information is classified under the following headings:

1 SOCIOLOGY. 2 PLANNING: General. 3 PLANNING: Regional and National. 4 PLANNING: Urban and Rural. 5 PLANNING: Public Utilities. 6 PLANNING: Social and Recreational. 7 PRACTICE. 8 SURVEYING, SPECIFICATION. 9 DESIGN: General. 10 DESIGN: Building Types. 11 MATERIALS: General. 12 MATERIALS: Metal. 13 MATERIALS: Timber. 14 MATERIALS: Concrete. 15 MATERIALS: Applied Finishes, Treatments. 16 MATERIALS: Miscellaneous. 17 CONSTRUCTION: General. 18 CONSTRUCTION: Theory. 19 CONSTRUCTION: Details. 20 CONSTRUCTION: Complete Structures. 21 CONSTRUCTION: Miscellaneous. 22 SOUND INSULATION, ACOUSTICS. 23 HEATING, VENTILATION. 24 LIGHTING. 25 WATER SUPPLY, SANITATION. 26 SERVICES, EQUIPMENT: Miscellaneous. 27 FURNITURE, FITTINGS. 28 MISCELLANEOUS.

2.7 planning: general

NORTHUMBERLAND AND TYNESIDE BIBLIOGRAPHY

Northumberland and Tyneside: A Bibliography. W. C. Donkin and E. F. Patterson in collaboration with the Ministry of Town and Country Planning. (HMSO, 1946, 2s. 0d.)

Bibliography designed to assist planners and all those interested in future use and development of land in Northumberland and Tyneside. Publications listed cover physical, economic and social conditions and resources of the area.

The material collected has been arranged under 13 subject headings indicating the following aspects: History, geography and topography; climate; geology and natural resources; agriculture and landownership; population; industry and commerce; employment and social conditions; transport and communications; public utilities; local government; housing; amenities and preservation; development, town planning and reconstruction.

Noteworthy features of the bibliography are a list of periodicals scrutinized, and a list of symbols used to denote the libraries which possess copies of the books listed. Comprehensive author and subject indexes conclude the bibliography, which is a most efficient and useful reference document and the first of its kind. It is to be hoped that similar bibliographies will be issued in due course covering other areas of England and Wales.

23.13 heating and ventilation

DEVELOPMENT OF THE HEAT PUMP

The Heat Pump. (The Architectural Forum. [USA], November, 1946, pp. 161-164.)

Description of method of working of heat pump, developments in USA. Two commercial models. Applicable to small buildings.

Considerable interest has been aroused recently in the possibilities of the use of the heat pump, and in this article the rapid progress made in USA is described. In the general description there seems to be some doubt as to the precise economics of capital cost and running cost, but other advantages are pointed out, such as fuel-less operation, absence of chimneys, reduction of fire risk and sensitive and accurate control. Many of the controversies may be settled by actual trial in the near future as two companies are now marketing packaged heat pump units. It is suggested that the heat pump may prove particularly suited for operating panel heating systems, and it has the advantage of being usable for both heating in winter and cooling in summer.

A number of installations in USA are referred to, and in view of the apparent success of these and the fact that conditions in a moderate climate such as ours may be more suitable than in America, possibilities of developments here are of interest.

The article is illustrated by diagrams showing the principles of operation of the heat pump, and by photographs of the two commercial units and of various buildings in which installations have been made.

24.11 lighting

ROAD LIGHTING: ACCIDENTS, USA

The Vital Importance of Fixed Lighting of Public Ways. W. L. Cross, P. S. Millar, R. E. Simpson. (Illum. Engineering, USA, September, 1946, p. 609.)

Evidence of fatal and non-fatal road accidents related to street lighting. Ten graphs. Useful information for town planners.

The illumination of streets is steadily improving, and it is a question how far it should be pressed as a matter of public welfare. This paper presents extremely useful evidence which can be accepted as proof that we have a long way to go yet.

At the outset the authors indicate the nature of the variables which preclude precise estimation of the effects of improved lighting. For instance, more traffic is attracted to better lighted streets, but in poor conditions drivers exercise more care. These few paragraphs show a good knowledge of driver-psychology.

The body of the paper is devoted to the examination of the evidence, piece by piece. A few examples will illustrate the type of data given. In Detroit in 1932, as part of

the economy-drive resulting from the economic depression, the street lighting was cut to about 65 per cent. of the previous standard. Thereupon the ratio of night-to-day fatalities doubled. Analyses are made of accident rates before and after improvements in the lighting for streets of light, medium and heavy traffic, and some precise figures are given in relation to the cost of improved lighting. For instance, an expenditure of 1,000 dollars per mile along 200 miles of hazardous road in several communities was followed by reductions in accident rates representing:—

195 fewer deaths.
3,474 fewer injuries.
7,304 fewer property damages.
Savings in accident costs totalling 5,891,000 dollars.

The paper concludes with estimates of the national reduction in fatal accidents based separately upon the various pieces of evidence. The estimates range from 5,750 to 14,460. Reduction in national losses is estimated at 500,000,000 dollars annually.

26.4 services and equipment: miscellaneous. ELECTRICAL INSTALLATIONS

Electrical Installations (General). Draft BS. Code of Practice 3s. 6d. (British Standards Institution, 1946. 3s. 6d.)

Fundamental requirements for satisfactory installations in buildings. Recommendations for design of circuits, switch gear, etc. Advice on site works, wiring and earthing. Inspection, testing and maintenance. Cable size data.

Some of the general information in this Code should be within an architect's knowledge, but much of it covers matters which are usually the province of the electrical engineer.

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

QUESTIONS AND ANSWERS

2888 RIGHTS OF LIGHT

Q Adjoining houses in London, having been war damaged, have been pulled down together with the dividing party wall. The owner of the house A has re-erected his premises and has not re-erected the party wall but has set back the flank wall some 3 to 4 feet from the line of the party wall and has formed windows and doors in this flank wall. The question asked is whether the owner of house B can obstruct the light to the windows in the flank wall of house A.

A It requires 20 years uninterrupted enjoyment to acquire a right to light to apertures in a wall, and it follows that the owner of House A has not yet acquired such a right to the apertures formed in the flank wall of his house. Consequently the owner of house B can build up to the party wall line and obstruct the light to the apertures in A's flank wall.

If owner B desires to re-erect the party wall it will be necessary to comply with the provisions of Part VI of the London Building Acts (Amendment) Act, 1939.



Birmingham Civic Hospital.

Lanchester & Hodge, F.R.I.B.A.

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qualities, and are incapable of rattling: when open, they are just not there. They glide back smoothly and silently into a flat nest of panels, leaving an absolutely unobstructed opening. They are easy to fit, easy to operate, can be made to any required height or width and lend themselves admirably to panelling, flush-facing or part-glazing to harmonise with their environment.

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Silent Street Corner, Ipswich

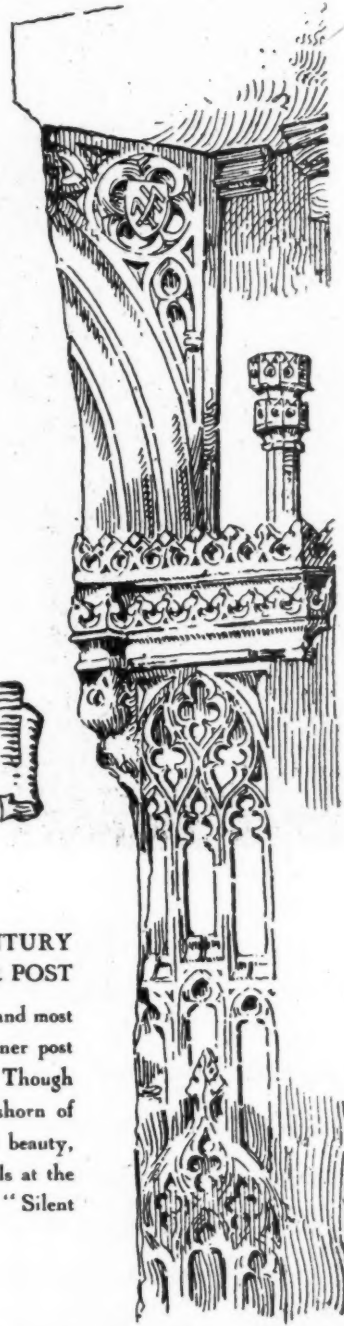


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The following Tables summarise the official statistics on housing progress, the production of building materials and the labour position.

HOUSING, MATERIALS AND LABOUR

[by Ian Bowen]

HOUSING

TABLE I PERMANENT HOUSES IN GREAT BRITAIN : Cumulative Totals

	Begun			Finished		
	Local Authorities	Private Builders	Total	Local Authorities	Private Builders	Total
To Dec., 1945	20,409	—	—	1,657	1,031	2,688
1946: Jan. ..	25,708	(8,000)	(33,000)	1,912	1,262	3,174
Feb. ..	32,658	(16,000)	(48,000)	2,063	1,756	3,819
March ..	43,431	(24,000)	(67,000)	2,531	2,748	5,279
April ..	55,504	29,077	84,581	3,305	4,086	7,391
May ..	69,591	35,597	105,188	3,939	5,854	9,793
June ..	82,178	40,267	122,445	5,059	7,945	13,004
July ..	97,126	44,878	142,004	6,530	10,911	17,441
Aug. ..	112,491	48,841	161,332	8,335	13,670	22,005
Sept. ..	130,705	52,218	182,923	10,902	17,394	28,296
Oct. ..	150,882	55,800	206,682	14,570	21,177	35,747
Nov. ..	165,447	58,581	224,028	18,459	24,639	43,098
Dec. ..	178,379	61,293	239,672	23,923	28,175	52,098
1947: Jan. ..	190,340	64,533	254,873	28,440	31,609	60,049
Increase of Jan. over Dec. ..	11,961	3,240	15,201	4,517	3,434	7,951
Total at January 31, 1946				Under Construction	Finished	
Local Authorities				161,900	28,440	
Private Builders				32,924	31,609	
War-destroyed rebuilt				15,420	6,913	
Total				210,244	66,962	

TABLE II TEMPORARY HOUSES IN GREAT BRITAIN : Cumulative Totals

	Slabbing Begun	Slabbing Completed	Erection Begun	Erection Completed
To Dec., 1945	61,008	39,998	22,932	9,376
1946: Jan. ..	67,444	44,817	28,297	12,751
Feb. ..	74,554	52,262	33,572	16,718
March ..	81,591	58,980	39,540	21,182
April ..	89,743	67,897	47,374	26,199
May ..	99,142	76,640	54,871	30,637
June ..	103,322	84,594	61,472	35,139
July ..	108,374	92,100	69,057	40,425
Aug. ..	114,016	98,744	76,519	47,176
Sept. ..	117,422	103,700	83,725	57,040
Oct. ..	122,742	109,368	93,201	70,121
Nov. ..	128,238	112,837	98,650	80,135
Dec. ..	131,646	115,711	103,796	92,306
1947: Jan. ..	134,023	118,451	107,214	97,070
Increase of Jan. over Dec. ..	2,377	2,740	3,418	4,764

Temporary Houses Under Construction at January 31 : 10,144.

TABLE III NON-TRADITIONAL PERMANENT HOUSES (ALREADY INCLUDED IN TABLE I) GREAT BRITAIN : cumulative totals

	Begun	Completed
To end July, 1946	12,040	638
Aug. ..	15,395	903
Sept. ..	18,818	1,304
Oct. ..	23,887	1,972
Nov. ..	28,285	2,625
Dec. ..	31,947	3,521
Jan., 1947	34,457	4,183

Non-traditional Houses Under Construction at January 31 : 30,274

TABLE IV HOUSING ACCOMMODATION PROVIDED OTHERWISE THAN BY NEW BUILDING : Cumulative Totals

	Unoccupied War-Damaged Houses Repaired	Conversions and Adaptations	Emergency Huts	Accommodation for Government Employees
To end June, 1946	86,134	19,341	3,412	—
July ..	91,276	22,014	3,467	—
Aug. ..	95,638	23,784	3,480	—
Sept. ..	99,087	26,345	3,480	175
Oct. ..	102,307	29,010	3,480	183
Nov. ..	105,228	31,676	3,480	193
Dec. ..	107,898	35,814	3,480	193
Jan., 1947	110,149	38,693	3,480	193
Increase of Jan. over Dec. ..	2,251	2,879	Nil	Nil

BUILDING MATERIALS

TABLE V PRODUCTION AND STOCKS

	Unit	December, 1945		July, 1946		January, 1947	
		Pro-duction	Stocks	Pro-duction	Stocks	Pro-duction	Stocks
Cement ..	th. tons	387	262	682*	240	*550	263
Bricks ..	millions	114	990	305	329	379	301
Roofing materials							
Clay tiles ..	th. squares	19.5†	58.5	53.8*	33.1	61.2	35.5
Concrete tiles ..	"	5.4†	38.2	38.4*	31.0	48.0	44.3
Slates ..	"	19.4	55.1	22.0	37.4	—	—
Asbestos cement sheeting ..	th. tons	19.3†	18.6	32.2*	19.2	*34.5	27.3
Roofing felt ..	th. rolls of 24 sq. yds.	146	146	203*	120	*274	113
Ceilings, Wall Linings and Floorings							
Plaster gypseous Plasterboard ..	th. tons	12.0†	—	17.1*	—	*18.7	—
Tiles	th. sq. yds.	2,329†	418	2,979*	395	*3,424	399
Glazed Floor (Clay) ..	th. sq. yds.	284	—	500	—	521	—
Pipes (Water, Gas, etc.)							
Lead ..	th. tons	3.62	—	4.35	—	3.58	—
Copper ..	"	1.72	—	2.59	—	2.30	—
Soil Pipes ..	"	0.69	—	1.30	—	2.57	—
Drain Pipes, Salt Glazed ..	"	20.3	—	30.3	—	39.5	—
Rainwater Goods, Rainwater Pipes, Gutters and Fittings							
Cast Iron and Pressed Steel	th. of equiv. tons of cast iron	1.18	—	3.14	—	4.48	—
Asbestos Cement Goods	th. tons	1.03	—	1.22	—	*2.19	—
Manhole Covers and Frames	th. of equiv. tons of cast iron	1.56	—	3.04	—	3.69	—
Metal Windows ..	Mn. ft. sup.	1.54	1.41	2.81	2.11	4.52	2.95
Sanitary Fittings							
Baths ..	thousands	12.2	—	23.4	—	31.2	—
Lavatory Basins ..	"	23.5	—	81.1	—	87.0	—
Sinks ..	"	39.2	—	49.3	—	53.1	—
W.C. Pans ..	"	53.4	—	89.8	—	97.7	—
Cookers							
Solid Fuel ..	"	3.7	—	10.5	—	21.7	—
Electric ..	"	8.6	—	12.6	—	18.7	—
Gas ..	"	15.1	—	28.9	—	33.8	—
Fires, Solid Fuel ..	"	—	—	49.2	—	71.1	—
Wash Boilers							
Electric ..	"	8.0	—	13.2	—	22.4	—
Gas ..	"	25.6	—	32.0	—	39.9	—
Furnace Pans (Solid Fuel)							
Solid Fuel ..	thousands	1.6	—	2.7	—	3.1	—

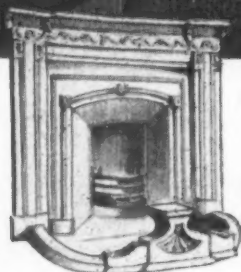
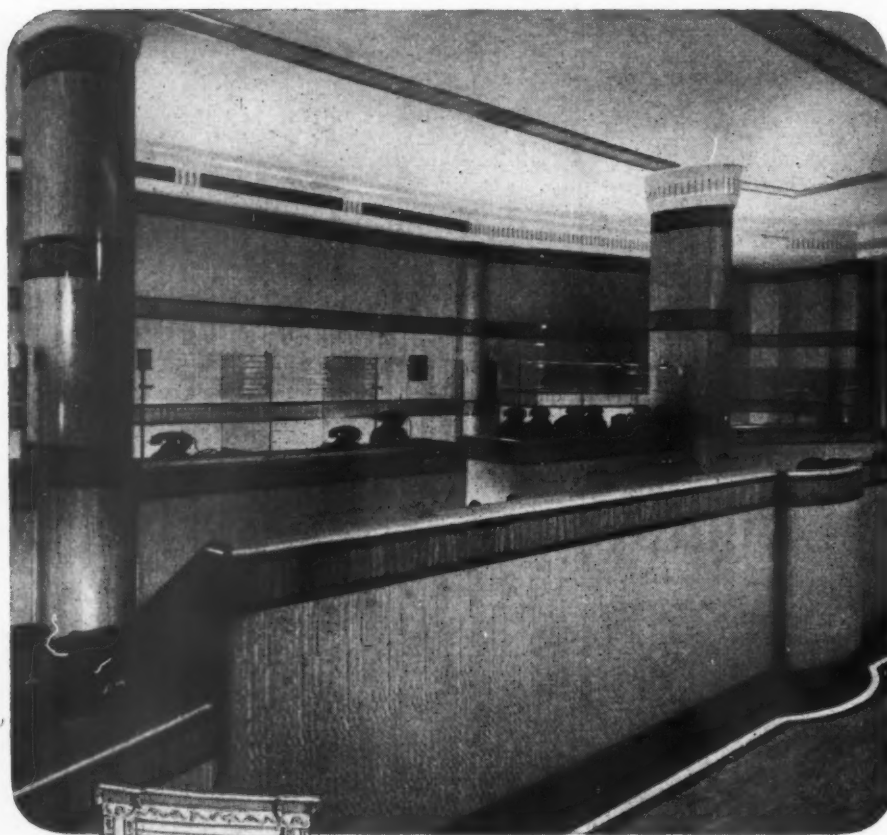
* 5-week period. † 4-week period. Other figures relate to calendar months

LABOUR

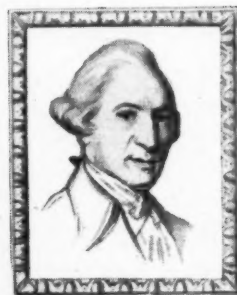
TABLE VI BUILDING AND CIVIL ENGINEERING LABOUR IN GREAT BRITAIN : Operatives Employed, aged 16 and over

	July, 1945	January, 1946	January, 1947
Total ..	535.0	721.0	952.0
Housing ..	343.9	435.4	606.9
Permanent ..	4.2	34.5	209.0
Temporary ..	14.5	36.8	27.1
Other (sites, repairs, etc.) ..	325.2	364.1	370.8
Other Work ..	191.1	285.6	345.1

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THE INDUSTRY

[by Philip Scholberg]

REWASHERING TAPS

In these Notes (9.1.47) I referred to two taps, one, the Shaff, designed for easy re-washing, the other, the Twin Seal, being washerless and having a claimed life of not less than forty years. To these must now be added the Supatap, a device on show, and actually being sold, at Olympia. Incorporated in the tap is an automatic check valve which allows the washer to be changed without cutting off the water supply, so that the cost of separate stop taps is avoided. To change a washer the top nut is unscrewed until it is clear of the body and the tap is then turned full on until the body comes off, when the check valve drops and the water flow stops automatically. The body contains an anti-splash device which in turn holds the valve jumper which is easily removed for washer renewal. So far only a half inch bib tap is in production, and this sells retail for 11s. 6d.; short and long pillar types are in course of development, but their price is not yet fixed. One would have thought that the design of taps should by now leave little scope for improvement: it is interesting to see that by starting again from scratch it is possible to produce a result which is logical and at the same time has definite advantages. (F. H. Bournier & Co. (Engineers), Ltd., Haling Road, South Croydon.)

REFRIGERATORS

Electrolux have a new freestanding model of their M.151 built-in type. With a capacity of 1.6 cubic feet and a shelf area of 3½ sq. feet, this model uses on an average about 2.2 units of electricity a day, or about 0.14 therms of gas. It is suggested that it will provide adequate storage capacity for a family of four, and this estimate seems to be borne out by the list of goods which the shelves will hold at one time. The upper shelf has the usual hinged section so that enough height is obtained for quart milk bottles, and access to the temperature and defrosting controls is via the hinged door below the refrigerator proper. This model replaces the pre-war type L.100, which had rather unattractive curved legs and a certain amount of exposed pipework: the present design seems a considerable improvement. The price is £29 10s. retail, and although there is a long waiting list, deliveries can be made this year even by starting at the end of the queue. Electrolux have already delivered 50,000 of the M.151 built-in type, and now have another Government order for a further 10,000. Steel cuts and export quotas have slowed down deliveries, which, in the larger sizes ranging up to 10 cubic feet, will not start until 1948. (Electrolux, Ltd., Luton, Bedfordshire.)

WELDING DEVELOPMENTS

During the past year or two British Oxygen have developed some new welding processes

which are particularly useful for work with light alloys. For welding light sheets and parts up to half an inch thick, they recommend a 10 to 12 per cent. silicon-aluminium filler rod in conjunction with a specially compounded flux. The filler rod has a melting point about 75° C. lower than the aluminium, so that there is no danger of melting away edges or thin projection while welding is in progress.

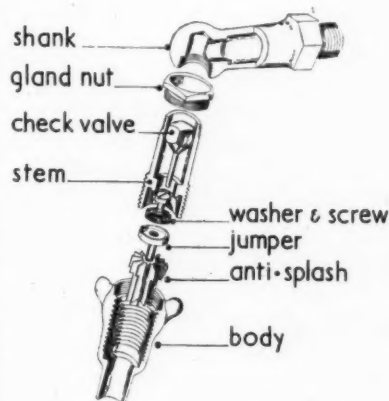
Another process known as the Argonarc has also been developed for welding magnesium-rich alloys and certain other metals. An electric arc is used, made between a tungsten electrode and the work-piece with a filler rod added separately to the welding zone in the same way as oxyacetylene welding. A hooded shroud round the electrode supplies inert argon gas to prevent any chemical change in the material being welded. This process has two important advantages, first, it eliminates the dangers of corrosion from flux residues, and, second, owing to the small highly concentrated heat source it reduces to a minimum the distortion of articles fabricated from sheet metal. Both these problems have been of great importance, especially with magnesium alloys. One does not normally associate the British Oxygen Co. with electrical welding processes, but they are, of course, interested in this from the point of view of the argon supply.

The oxygen cutting of very heavy sections has also been developed, and it is now possible to make accurate cuts in slabs, blooms and forgings up to a thickness of seven feet or more. This has been done mainly by reducing the cutting oxygen pressure. In the past the recommended pressure for cutting a section 15 inches thick was about 95 lb. per square inch, and the expansion and turbulence of the oxygen leaving the nozzle tended to produce a rather ragged cut. By using a larger nozzle and considerably reducing the pressure (to about 25 to 30 pounds for metal 48 inches thick) the swirling of the gas is overcome and the cut is clean and accurate. (The British Oxygen Co., Ltd., North Circular Road, Cricklewood, London, N.W.2.)

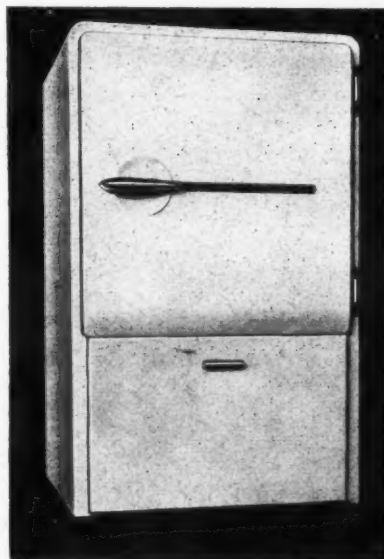
A NEW LOCK

The ordinary spring latch and pin tumbler lock assembly suffers from the disadvantage that it is possible to open it by pushing in some sort of flexible strip and working the latch out of the staple. Not that this has ever happened to me, but according to the police it is the usual method, and it certainly happens often enough for some insurance companies to insist on a proper mortise lock. These latter often involve (though there is no reason why they should) a vast key of the kind one would associate with a dungeon in the Tower, so that most people remain content with a simple but not entirely secure form of fastening. Ingersoll have now introduced a new type of lock with a secondary locking bolt which is secure enough to satisfy a number of insurance companies who have previously insisted on a mortise lock. In this design the ordinary spring bolt is pushed sideways into the body of the lock in the usual way, but it then pushes out into the staple slot a solid rectangular dead bolt which cannot be opened with a flexible strip. The cylinder mechanism has ten levers, and the key section has been registered so that it will not be possible to have duplicates cut in a few hours by the local ironmonger. Four keys are supplied with each lock, and each owner is also registered, after which he only can obtain duplicates by application direct to the makers. The lock is normally used in the same way as the night latch, but it has the further advantage that a full turn of the key double locks the whole thing, so that the inside handle cannot be used even if there is a

glass panel in the door to be broken. The inside handle, incidentally, is a lever pull type which makes it easier to get a good pull on a sticky door. The staple has a solid peg which is deeply embedded in the door frame for added strength, and the standard set is interchangeable with most existing night latches. Duplicate locks can be supplied for various doors with the same key for all of them, or different combinations can be obtained with a master key. The price is 30s. retail. (Ingersoll Locks, Ltd., Agdon Street, London, E.C.1.)



Supatap, a new tap designed for easy re-washing. The check valve cuts off the water when the washer is withdrawn, eliminating the need for turning off the main supply. This tap was on exhibition at Olympia. (F. H. Bournier & Co. (Engineers) Ltd.)



Model L.150 Electrolux Silent Refrigerator. A new free-standing type of 1.6 cubic feet capacity. The price of this model is £29 10s. retail and although there is a long waiting list deliveries can be made this year, even to those who start at the end of the queue. (Electrolux Ltd. Luton, Beds.)

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

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A.J.3.4.47

Announcements

Mr. J. C. Rose, A.R.I.B.A., has been appointed by the Colonial Office to the temporary post of Executive Architect, Windward Islands, and has opened an office in Castries, St. Lucia, Windward Islands, British West Indies. He will be pleased to receive trade catalogues, etc.

Lavender and Twentyman, chartered architects, will henceforth be known as Lavender, Twentyman and Percy, and will continue to practice from 2, Waterloo Road, Wolverhampton.

Buildings Illustrated

ESSEX COUNTY COUNCIL SCHOOLS.
County Architect: H. Conolly.

Grange Hill Estate Primary School, Chigwell:—Contractors: Gilbert Ash, Ltd. Sub-contractors: Tanking, General Asphalte Co. Structural steel, patent glazing, windows and trims, Hills Patent Glazing Co. Wall cladding, pre-cast concrete roofing, Hilcon, Ltd. Felt roofing, D. Anderson and Son, Ltd. Folding partitions, Kingfisher, Ltd. Suspended ceiling, Eastwoods Specialists, Ltd. Heating and hot water, Mr. J. E. Heath. Electrical work, Tucker Bros. Cement glaze, Modern Surfaces, Ltd. Tiling, Summers and Co. Flooring, Terradura Flooring Co. Suppliers: Bricks, Milton Hall (Southend) Brick Co. Pavement lights, Luxfer, Ltd. Paving, Neolite Paving Co. Ironmongery, J. Gibbons, Ltd. Metal floor trays, Dover Engineering Works, Ltd. Gates and fencing, S. W. Farmer and Son, Ltd. Doors, J. Sadd and Son, Ltd. Reinforcement, Twistee Reinforcement, Ltd. Cloak

room fittings, Clark Hunt and Co. W.C. partitions, Venesta, Ltd. Sanitary goods, Leeds Fireclay Co. Wash fountains, W. E. Farrer, Ltd.

Friday Hill Estate Primary School, Chingford:—Contractor: Commercial Structures, Ltd. Sub-contractors: Tanking, General Asphalte Co. Structural steel, windows and trims, J. Thompson (Beacon) Windows, Ltd. Patent glazing and rooflights, Luxfer, Ltd. Roofing, Ruberoid Roofing Co. Folding partitions, Kingfisher, Ltd. Suspended ceilings, Sundeala Board Co. Heating and hot water, Fretwell Heating Co. Electrical work, Ward Electric Engineering Co. Cement glaze, Modern Surfaces, Ltd. Tiling, Carter and Co. Flooring, Terradura Flooring Co. Gates and fencing, Commercial Structures, Ltd. Suppliers: Bricks, Milton Hall (Southend) Brick Co. Art stone, Empire Stone Co. Paving, Neolite Paving Co. Ironmongery, J. Gibbons, Ltd. Doors, Geo. Hammer and Co. Reinforcement, Twistee Reinforcement, Ltd. Cloakroom fittings, Clark Hunt and Co. Sanitary fittings, J. Bolding and Sons, Ltd.

Obituary

The death has occurred of Mr. George Albert Ure, chairman and managing director of Smith and Wellstood, Ltd., ironfounders, Bonnybridge, and of the Esse Cooker Company, Bonnybridge. He was 74. Mr. Ure had been connected with the two companies for 60 years, and was expert in the practical side of ironfounding. A member of several research committees on fuel economy, he was responsible for developing a welfare organisation for the staff and workers of the two Bonnybridge undertakings. For over 20 years he was connected with the Royal Scottish National Institution at Larbert, being chairman for 10 years.

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Enquiries should be addressed to the members of the Wood Wool Building Slab Manufacturers' Association whose trade names and addresses are given below.



W.W.25

- | | |
|---------------------|--|
| GYPKLITH . . | Gyproc Products Ltd.,
Westfield, Upper Singlewel Road,
Gravesend. Telephone: Gravesend 4251. |
| MARLITH . . | The Marley Tile Co., Ltd.,
London Rd., Riverhead, Sevenoaks, Kent.
Telephone: Sevenoaks 2251. |
| THERMACOUST | The Cementation Co., Ltd.,
Thermacoast Dept., 39, Victoria Street,
S.W.1. Telephone: Abbey 5726. |
| LITHALUN . . | Lithalun Products Ltd.,
Pontalun, Bridgend, Glam.
Telephone: Bridgend 213 |



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TIMBER CONNECTORS
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1 While the members are held temporarily in place by nails, a bolt hole is bored through the assembly.

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The 'Bulldog' timber connector consists of a metal plate with the edges turned off at right angles to form sharp triangular teeth projecting evenly from both sides of the plate.

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Full details and technical advice are available to everyone interested.



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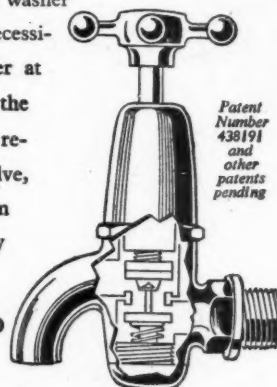
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automatically turns off water while washer is being changed

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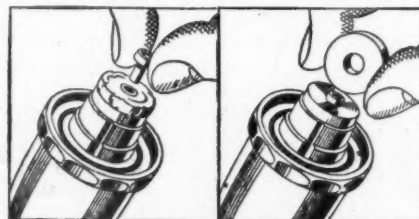
of a *Shaff Tap* does not necessitate turning off the water at the main or stop-tap. As the head is unscrewed and removed the secondary valve, located in the bottom housing, automatically stops the flow.



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IN 30 SECONDS!**

Another time and trouble-saving feature is the absence of a nut to hold the washer in position. A spindle pin, easy to withdraw and re-insert, is substituted. In less than a minute a novice can change the washer on a *Shaff Tap*.



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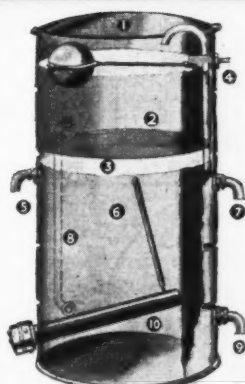
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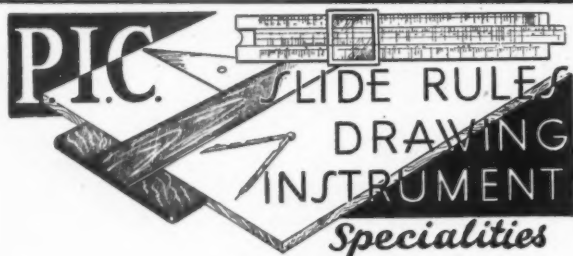
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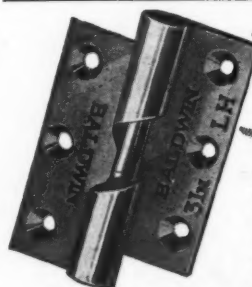
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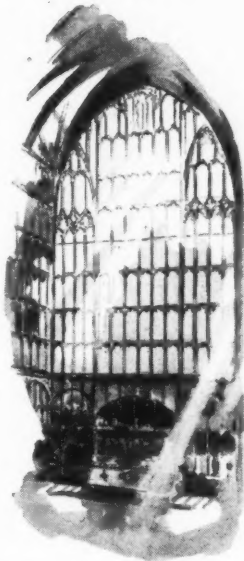
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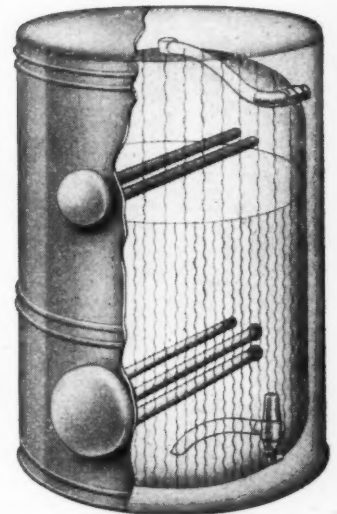
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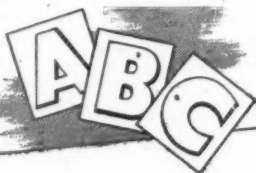
Available in a wide range of attractive designs and colours. Ritzide offers the architect the most modern and effective expression of flooring to conform with the new plastic age.

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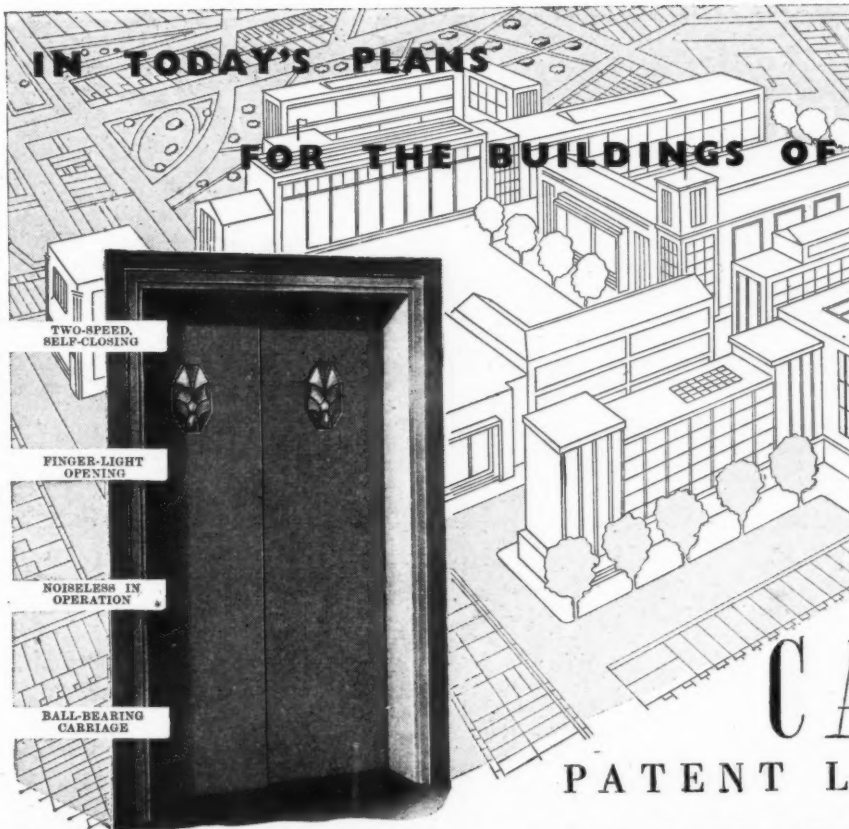
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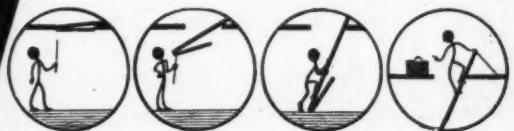
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey, and should reach there by first post on Friday morning for inclusion in the following Thursday's paper.

Replies to Box Numbers should be addressed care of "The Architects' Journal." War Address: 45 The Avenue, Cheam, Surrey.

Public and Official Announcements

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

THE INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: 76, BATON PLACE, LONDON, S.W.1. TEL. SLOANE 5615. 991

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-storey dwellings, at consolidated salaries of up to £700 a year, the commencing salary in each case being determined according to qualifications and experience. Successful candidates will be required to contribute to the Council's Superannuation and Provident Fund, and will be eligible for appointment to the Council's permanent staff and for advancement on the occurrence of vacancies.

Duties will include:—

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

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

Forms of application may be obtained from the Director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1. (a stamped addressed foolscap envelope required). Completed forms must be returned not later than seven days after the appearance of this notice. Canvassing disqualifies. (632) 997

MARSHLAND RURAL DISTRICT COUNCIL.

WISBECH RURAL DISTRICT COUNCIL.

APPOINTMENT OF ARCHITECT.

Applications are invited from duly qualified persons for the joint appointment of Architect to the two Councils, at a salary in accordance with Grade A.P.T. VII, of the National Scheme of Conditions of Service (£575 to £650 per annum), plus cost-of-living bonus (at present £59 16s. per annum).

The person appointed will not be allowed to engage in private practice, and will be required to provide and maintain a car for the purpose of his duties, for which a travelling allowance will be paid in accordance with the County Scale.

Applicants must be qualified to advise the Councils on their Housing programmes, and to prepare all plans, quantities, specifications, etc., and to supervise construction.

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

Applications, endorsed "Architect," stating age, qualifications, details of experience, together with copies of three recent testimonials, to be sent to the undersigned not later than first post on the 9th April, 1947.

Canvassing will be a disqualification.

G. HELLIER,

Clerk to the Councils.

Council Offices, Alexandra Road, Wisbech, Cambs.

21st March, 1947. 597

EAST SUFFOLK COUNTY COUNCIL.

SENIOR ASSISTANT ARCHITECT.

Applications are invited for the post of Senior Assistant Architect, in the County Architect's Department. Salary, A.P.T., Grade VII, £575-£650 per annum, plus cost-of-living bonus, at present £59 16s. per annum. Commencement salary will be according to capabilities and experience. The duties will consist of taking charge of a section engaged on General County work (Schools excluded), and a sound knowledge of the design and construction of Police buildings, Hospitals, Housing, etc., is required.

Applicants must have had previous experience with a Local Authority; be Registered Architects, and preferably Members of the R.I.B.A.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937; to the selected candidate passing a medical examination as required by the Council, and to one month's notice on either side.

Applications, giving full details of training, age and qualifications, together with copies of not more than three testimonials, should be sent to the Clerk of the County Council, County Hall, Ipswich, so as to be received not later than Friday, 11th April, 1947.

CECIL OAKES,

Clerk of the County Council.

County Hall, Ipswich.

20th March, 1947. 628

CORPORATION OF LONDON.

CITY SURVEYOR'S OFFICE.

APPOINTMENT OF TECHNICAL STAFF.

Applications are invited for the following appointments in the City Surveyor's Office:—
ARCHITECTURAL ASSISTANTS. Salary £450, inclusive of consolidated bonus.

Applicants should either have qualified or be about to qualify for Associate Membership of the Royal Institute of British Architects, or Associate Membership of the Royal Institution of Chartered Surveyors (Building Sub-division).

The appointments are for the present on a temporary basis, and will be concerned principally with the reinstatement of war damage to a variety of types of properties. There will be a possibility of establishment for suitable men, and temporary service will count for the purpose of superannuation. Such appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and applicants will be required to pass a medical examination.

Previous experience with a Municipal body is not essential.

Applications, endorsed "Technical Staff," to be made to George Holliday, F.S.I., The City Surveyor, 55-61, Moorgate, E.C.2, giving the following particulars: Service with Armed Forces, age, qualifications or intentions in connection therewith, previous training, positions and experience, date when available to commence duties if selected, together with copies of two testimonials. 579

MINERS' WELFARE COMMISSION.

ASSISTANT QUANTITY SURVEYORS.

Applications are invited for appointments of Assistant Quantity Surveyors (a) in London, at a salary between £490-£525-£740 (inclusive of consolidated addition), and (b) in South Wales, at a salary between £471-£525-£725 (inclusive of consolidated addition).

Applicants should be Associates of the R.I.C.S. and be able to "take off" quantities from drawings, prepare approximate estimates and final accounts, and to write specifications and reports. Commencing salary will depend on age, qualifications and experience.

Staff Pension Scheme after one year's satisfactory service.

Application forms obtainable from Miners' Welfare Commission, Ashley Court, Ashted, Surrey. 619

MIDDLESEX COUNTY COUNCIL.

APPOINTMENT OF COUNTY PLANNING OFFICER.

Applications are invited for this established appointment, which will be made at a salary within the scale of £1,500 by £100 to £2,000 p.a. (plus any current cost-of-living bonus), according to experience and qualifications, and be subject to the County Council's General Conditions of Service for Officers, Staff Regulations and Standing Orders as in force from time to time. Applicants must possess organizing and administrative ability of a high degree, as well as extensive experience of Town and Country Planning, and of negotiation with local authorities, statutory undertakers and property owners, and should also possess one or more of the following professional qualifications: Member of the Town Planning Institute, Fellow or Associate of the Royal Institution of Chartered Surveyors, Fellow or Associate of the Royal Institute of British Architects, Member of the Institution of Civil Engineers, or of the Institution of Municipal Engineers. The appointment will be subject to the successful candidate passing the necessary medical examination and becoming a contributor to the County Council's Superannuation Fund. Applications, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must reach the undersigned, quoting B.467 A.J., not later than 31st May, 1947. Canvassing disqualifies.

C. W. RADCLIFFE,

Clerk of the County Council.

Middlesex Guildhall, Westminster, S.W.1. 648

CITY OF PLYMOUTH.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the Permanent Staff, which are subject to the Local Government Superannuation Act, 1937, a satisfactory medical examination, and one month's notice on either side for termination.

The salary scale is that of the A.P. and T. Division of the National Scheme of Conditions of Service, and is subject to the addition of cost-of-living bonus, at present £59 16s. per annum.

(a) TWO ASSISTANT ARCHITECTS. Grade IV, £420-£465 per annum.

(b) THREE ASSISTANT ARCHITECTS. Grade III, £390-£435 per annum.

Applicants should preferably be Members of the Royal Institute of British Architects.

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 to be obtained from the undersigned, accompanied by copies of not more than three testimonials, should be returned to me as soon as possible.

The Corporation will make housing accommodation available to the successful applicants who are married.

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

City Architect.

City Architect's Department, Weston Lodge, Seymour Road, Plymouth. 577

LONDON COUNTY COUNCIL.

VACANCIES FOR PLANNING STAFF IN THE ARCHITECT'S DEPARTMENT FOR WORK ON THE COUNTY OF LONDON PLAN.

Applications are invited for a number of positions in the following grades:—

PLANNING OFFICER (Grade III), up to £700 a year.

TECHNICAL ASSISTANT, up to £580 a year. Commencing rate of pay will be according to qualifications and experience.

There will be opportunities for competing, on merit, in due course for permanent appointment and for positions in the higher grades on the occurrence of vacancies. Successful candidates will be subject to the Council's Superannuation and Provident Fund.

The planning work involved includes assistance in the detailed development of Reconstruction Area schemes, and the preparation of revised zoning plans.

A knowledge of current town planning legislation is desirable in all cases, and candidates for Grade III positions should possess architectural or surveying or town planning qualifications.

Other things being equal, preference will be given to candidates registered under the Disabled Persons (Employment) Act, 1944, and ex-Service men and women will also receive special consideration.

Application should be made to the Architect to the Council, County Hall, Westminster Bridge, S.E.1, for forms of application (enclosing stamped addressed envelope), returnable not later than ten days from this date.

Canvassing disqualifies. 983

SOUTHAMPTON COUNTY BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(1) ASSISTANT ARCHITECT (Permanent). Grade VI, £535-£600.

(2) ASSISTANT ARCHITECT (Permanent). Grade V, £460-£510.

(3) ASSISTANT ARCHITECT (Permanent). Grade IV, £420-£465.

The above posts are subject to a cost-of-living bonus, amounting to £59 16s. per annum.

The Borough Architect is responsible for all Architectural work carried out by the Council, including the housing, education and public health programmes, and opportunity is given for varied experience, dependent on ability. Preference will be given to candidates who have passed examinations for membership of the Royal Institute of British Architects, and, in the case of the senior post, qualifications in Town Planning will be considered an advantage.

Applications, giving full particulars of age, qualifications and experience, and enclosing copies of two recent testimonials, should be sent to Denis Winston, Civic Centre, Southampton, to reach the above on or before 28th April, 1947. 629

Amended Advertisement.

WANDSWORTH BOROUGH COUNCIL.

APPOINTMENT OF CLERKS OF WORKS.

The Council invite applications for the appointment of two Temporary Clerks of Works to supervise the erection of permanent dwellings. Salary is in accordance with A.P.T. Scale, Grade V, £480-£530, plus cost-of-living bonus, at present £59 16s. per annum.

Applicants must have served an apprenticeship in a recognized building trade, have a sound knowledge of all building trades, be thoroughly experienced in the duties of a Clerk of Works for the construction of dwellings on large building contracts, including setting out, levelling, and the measurement of work.

The appointment will be subject to (a) the provisions of the Wandsworth Borough Council (Superannuation) Acts, 1909-1940, and (b) to the passing of a medical examination by a medical officer nominated by the Council.

Forms of application are obtainable from Mr. W. H. Beesley, A.R.I.B.A., F.S.I., Borough Architect, and must be returned endorsed "Clerk of Works," to the undersigned, not later than Monday, 7th April, 1947.

Candidates must disclose whether to their knowledge they are related to any member of, or holder of any senior office under the Council. Canvassing, either directly or indirectly, will be deemed a disqualification.

By Order,

R. H. JERMAN,

Town Clerk.

Municipal Buildings, Wandsworth, S.W.18.

March, 1947. 649

KENT COUNTY COUNCIL.

Applications are invited from Fellows or Associates of the Royal Institute of British Architects for appointments on the permanent staff of the Buildings Department as ASSISTANT ARCHITECTS, each at a basic salary not exceeding £510 a year, plus cost-of-living bonus, at present £59 16s. a year.

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

Candidates must have had wide experience in the planning, designing, and construction of school buildings, and have had some administrative experience.

Applications, on a form obtainable from the County Architect, Springfield, Maidstone, must be delivered to him, duly completed, not later than the 18th April, 1947.

W. L. PLATTS,

Clerk of the County Council.

County Hall, Maidstone.

18th March, 1947. 638

**TYRONE COUNTY COUNCIL.
APPOINTMENT OF ASSISTANT PLANNING
OFFICER.**

Applications are invited from qualified persons for the post of Assistant Planning Officer for the preparation of a Planning Scheme or Schemes for the County of Tyrone, as directed, under the provisions of the Planning Acts (Northern Ireland), 1931 and 1944.

Salary £450 per annum, plus war bonus on the County Council's scale (at present £50 per annum).

The person appointed will be required to provide and maintain a motor car for travelling in connection with his duties, for which he will receive an allowance of £100 per annum.

Applicants must possess the following:—

He must be a Fellow, Associate, or Member of one of the following:—

- The Institution of Civil Engineers.
- The Royal Institute of British Architects.
- The Institution of Civil Engineers of Ireland.
- The Royal Institute of the Architects of Ireland.
- The Institution of Municipal and County Engineers.
- The Chartered Surveyors' Institution.

Preference will be given to applicants who, in addition, are Associate Members of the Town Planning Institute, and have had practical planning experience.

The appointment is temporary, and the person appointed must devote his whole time to the duties of the office.

The post will be terminable by one month's notice, in writing, on either side, and the appointment is subject to the sanction of the Ministry of Health and Local Government.

Selected candidates will require to attend for interview, for which vouched travelling expenses will be paid.

The person appointed will be required to take up duty as soon as possible.

Applications in writing, giving full particulars of age, qualifications and experience, accompanied by three recent testimonials and details of service in His Majesty's Forces, if any, will be received by the undersigned not later than 4 o'clock p.m. on Saturday, the 19th day of April, 1947.

ARTHUR H. COOTE,

Secretary.

Courthouse, Omagh, Co. Tyrone.
19th March, 1947.

642

**METROPOLITAN BOROUGH OF POPLAR.
Appointments of:—**

(1) CHIEF BUILDING SURVEYOR.

(2) ARCHITECTURAL ASSISTANT (Grade IV).

Applications are invited for the under-mentioned appointments, on the permanent staff of the Borough Engineer and Surveyor's Department of the Council.

(1) CHIEF BUILDING SURVEYOR.

The salary attaching to the post will be in accordance with Grade VI of the Administrative, Professional and Technical Division of the National Scales of Salaries, viz., £535 to £600 per annum, plus London "weighting" of £20 per annum, and cost-of-living bonus, at present £59 16s. per annum.

Applicants must either have held a similar appointment with another local authority or have had extensive experience with a large firm of building contractors, and be thoroughly experienced in building construction, estimating, and tendering for work by direct labour, the organizing and supervision of work, valuation and measurement of work, costing systems, and purchase of materials and plant.

(2) ARCHITECTURAL ASSISTANT (Grade IV).

The salary attaching to the post will be in accordance with Grade IV of the Administrative, Professional and Technical Division of the National Scales of Salaries, viz., £420 to £465 per annum, plus London "weighting" of £20 per annum, and cost-of-living bonus, at present £59 16s. per annum.

Applicants must have had extensive experience in the planning and design of housing schemes, preferably under a local authority.

The persons appointed to the foregoing posts will be required to devote the whole of their time to the duties of the respective offices, and will not be allowed to engage in any other occupations.

The appointments will be subject to the provisions of the Scheme of Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services, the provisions of the Poplar Borough Council (Superannuation) Acts, 1911 to 1937, and to satisfactory medical examination. Termination of the appointments will be subject to one month's notice on either side.

Applications, on forms which may be obtained from the undersigned, must be delivered, together with copies of three recent testimonials, in envelopes endorsed "Senior Building Surveyor" or "Architectural Assistant (Grade IV)," as the case may be, so as to reach me not later than the first post on Monday, 21st April, 1947.

Canvassing members or officers of the Council in any form will disqualify.

S. A. HAMILTON,

Town Clerk.

Poplar Town Hall, Bow Road, E.3.
24th March, 1947.

665

**SHILDON URBAN DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.**

Applications are invited for the temporary appointment of an ARCHITECTURAL ASSISTANT, in the Surveyor's Department, to work under the direction of the Surveyor in the preparation of the Council's Development Scheme and Schemes leading to the erection of all future houses.

The salary for the appointment will be in accordance with Grade IV of the A.P.T. Division of the National Joint Council's Scheme, plus cost-of-living bonus, at present amounting to £59 16s. per annum.

Applicants must be experienced in land surveying, levelling, building inspection, supervision of erection of works and preparation of plans, working drawings, specifications, and bills of quantities for all architectural work, including housing.

Applicants must possess an architectural qualification, and preference will be given to those having passed the qualifying examination of the Royal Institute of British Architects.

The appointment will be for three years at least, and will be subject to the Local Government Superannuation Act, 1937, and to the successful candidate passing satisfactorily a medical examination. It will be determined by three months' notice on either side.

Applications, stating age, qualifications, past and present appointments and experience, and accompanied by copies of three recent testimonials, must reach the undersigned not later than 7th May, 1947, and endorsed "Temporary Architectural Assistant."

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

W. BURNIE, M.Inst.M. & Cy.E.,

Surveyor.

Council Offices, Burke Street, Shildon,
County Durham.

March, 1947.

657

BOROUGH OF ROYAL TUNBRIDGE WELLS.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT, in the Borough Surveyor's Department, for the period of approximately three years, on Grade IV (£420—£465) of the National Scheme, plus war bonus, at the rate from time to time in force.

Successful candidates will be required to contribute under the Local Government Officers' Superannuation Act, 1937, and to pass a medical examination. Applicants should state, in addition to the usual particulars, whether to their knowledge they are related to any member or senior officer of the Council.

Applications, together with copies of not more than three testimonials, should be delivered to Mr. H. P. Bishop, Borough Surveyor, Town Hall, Tunbridge Wells, not later than Tuesday, 15th April, 1947.

JOHN WHITEHEAD,

Town Clerk.

Town Hall, Tunbridge Wells.

658

CITY OF COVENTRY.

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

(a) TWO ASSISTANT ARCHITECTS.

Salary grade, A.P.T., V, commencing at £460 per annum, and rising by two annual increments of £15 and one of £20 to £510 per annum.

Candidates should be Associate Members of the Royal Institute of British Architects, or hold equivalent qualifications. It is likely that one of these assistants would be involved in the redevelopment scheme, and planning experience would be an advantage.

(b) ONE SENIOR ASSISTANT QUANTITY SURVEYOR.

Salary grade, A.P.T., V, (as above).

Candidates should be Professional Associates of the Royal Institution of Chartered Surveyors (Quantities Division).

Salary increments are subject to satisfactory service. The above salaries are exclusive of the Council's cost-of-living bonus, which may vary, but which at present amounts to 23s. per week.

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

Applications must be made on the forms obtainable from the undersigned, and should be returned completed, together with copies of not more than two recent testimonials, or names of two persons to whom reference may be made, not later than Wednesday, the 16th April, 1947.

Canvassing, directly or indirectly, will be a disqualification.

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

A.M.T.P.I.,

City Architect.

1a, Warwick Row, Coventry.

27th March, 1947.

654

**EAST ELLOE RURAL DISTRICT COUNCIL.
APPOINTMENT OF ARCHITECT.**

Applications are invited from duly qualified persons for the permanent appointment of Architect to the Council, at a salary within Grade V of the A.P.T. Division of the National Scheme of Conditions of Service (£460 per annum, rising to £510 per annum), plus cost-of-living bonus, at present £59 16s. per annum.

The person appointed will not be allowed to engage in private practice, and will be required to devote the whole of his time to the duties of his office. He will be required to provide and maintain a car for the purposes of his duties, for which a travelling allowance will be paid in accordance with the County Council Scale.

Applicants must be qualified to advise the Council on their post-war housing programme, and to prepare all plans, quantities, specifications, estimates, etc., and to supervise construction. Previous local government administrative experience, in a position of responsibility will be an additional recommendation.

The appointment will be subject to:—

(a) The National Scheme of Conditions of Service.

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

(c) The successful applicant passing a medical examination.

(d) Termination by one month's notice on either side.

Candidates should state in their applications whether or not they are related to any member or senior official of the Council, and canvassing in any form will disqualify.

Applications, endorsed "Architect," stating age, qualifications, and details of experience, and accompanied by copies of three recent testimonials, to be delivered to the undersigned not later than 7th April, 1947.

J. C. PYWELL,

Clerk to the Council.

Council Offices, Holbeach, Spalding,

Lincolnshire.

662

**BOROUGH OF SURBITON.
BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF QUANTITY SURVEYOR.**

Applications are invited for the permanent appointment of a Quantity Surveyor, at a salary in accordance with Grade A.P.T., V, of the National Scheme of Conditions of Service, namely £480 per annum, rising by two annual increments of £15 and one of £20 to a maximum of £530 per annum, plus bonus, which is at present at the rate of £59 16s. per annum. The salary stated includes the "weighting" for the London area.

Applicants should be Chartered Quantity Surveyors, with extensive experience in the preparation of Bills of Quantities, specifications, contracts, and measurement of completed works, particularly in respect of municipal housing schemes.

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

Applications, on forms to be obtained from the undersigned, must be delivered not later than 17th April, 1947.

Canvassing, either directly or indirectly, will disqualify.

R. H. WRIGHT,

Town Clerk.

Council Offices, Surbiton.

663

SURREY COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of ASSISTANT ARCHITECT, Grade V. The commencing salary will be £460, rising by annual increments of £15-£20 to a maximum of £510, plus bonus, at present at the rate of £59 16s. per annum, and London allowance of £20.

Applications, giving full details of previous experience, training and present appointment, and accompanied by copies of three recent testimonials, should be sent to the County Architect, Surrey County Council, County Hall, Kingston-on-Thames, not later than Friday, the 18th April, 1947.

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

Canvassing, either directly or indirectly, will disqualify.

DUDLEY AUKLAND.

Clerk of the Council.

County Hall, Kingston-on-Thames. 650

COUNTY BOROUGH OF TYNEMOUTH.
BOROUGH SURVEYOR'S DEPARTMENT.
APPOINTMENT OF SENIOR PLANNING ASSISTANT.

Applications are invited for the appointment of Senior Planning Assistant, at a salary in accordance with Grade V of A.P.T. National Scales, exclusive of war bonus, at present £59 16s. per annum.

Applicants must be Associate Members of the Town Planning Institute, and should have experience in the carrying out of basic surveys and the re-planning of built up areas. A recognized Engineering or Architectural qualification will be an advantage.

Applications, on forms to be obtained from the Borough Surveyor, Mr. D. M. O'Herlihy, B.Sc., M.Inst.C.E., Howard Street, North Shields, together with copies of not more than three recent testimonials, should be addressed to the Borough Surveyor, to arrive not later than 21st April, 1947.

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

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

Dated this 20th day of March, 1947.

FRED G. EGNER.

Town Clerk.

14, Northumberland Square, North Shields. 666

CITY OF PORTSMOUTH.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointments, on the permanent staff of the City Architect's Department:—

(a) SENIOR ARCHITECTS. Grades VIII, £625-£700.

(b) PRINCIPAL ASSISTANT ARCHITECTS. Grades VI, £535-£600.

(c) ASSISTANT ARCHITECTS. Grades V, £460-£510.

(d) ASSISTANT ARCHITECTS. Grades IV, £420-£465.

The salary scales are those of the A.P. & T. Division of the National Schemes of Conditions of Service. In addition, a cost-of-living bonus, at present £59 16s. per annum, is paid.

Candidates should be Members of the Royal Institute of British Architects, and have had good training and experience in the design and construction of modern buildings.

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

Applications, setting out in tabular form, name, age, qualifications, present and previous posts, and experience, together with copies of not more than three testimonials, must be delivered to the undersigned, suitably endorsed, not later than 10 a.m. on Monday, 21st April 1947.

Canvassing will be a disqualification.

V. BLANCHARD.

Town Clerk.

City Council Chambers, 1, Clarence Parade, Southsea. 654

LONDON COUNTY COUNCIL.
ARCHITECTURAL ASSISTANTS.

Applications are invited for positions of Architectural Assistant in the Housing and Valuation Department, at salaries of up to £420 a year, plus cost-of-living addition, at present amounting to £90. Commencing salaries will be determined according to qualifications and experience, and qualified candidates will be eligible for appointment to the permanent staff of the department on the occurrence of vacancies. Engagement will involve contribution to the Council's Superannuation and Provident Fund.

Successful candidates will be required to undertake work in connection with the design and development of housing schemes (cottages and multi-storey flats).

Forms of application may be obtained from the director of Housing and Valuer, The County Hall, Westminster Bridge, S.E.1 (stamped addressed foolscap envelope required). Canvassing disqualifies (411). 914

THE ROYAL TECHNICAL COLLEGE, GLASGOW.

Applications invited for post of SENIOR LECTURER, in the Department of Architecture. Salary on scale, £675-£25-£875. Further particulars and form of application obtainable from the Secretary. 641

COUNTY BOROUGH OF GREAT YARMOUTH.
BOROUGH'S ENGINEER'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited for the following appointments:—

(a) SENIOR ARCHITECTURAL ASSISTANT (Permanent) at a salary in accordance with Grade V of the National Scale of Conditions of Service, commencing at £460 per annum, rising to a maximum of £510 per annum, plus cost-of-living bonus, at present £59 16s.

(b) JUNIOR ARCHITECTURAL ASSISTANT (Temporary), at a salary of £270 per annum, rising by annual increments of £15 to £300 per annum, plus cost-of-living bonus, at present £59 16s.

Applicants for appointment (a) should be Associates of the Royal Institution of British Architects, and must have had experience in design and construction, particularly in relation to housing, schools and public buildings.

Applicants for appointment (b) should have had a thorough technical training, and preference will be given to candidates who have passed the Intermediate Examination of the Royal Institution of British Architects.

Applications, stating age, qualifications and experience, together with copies of three recent testimonials, should be enclosed in an envelope endorsed with the title of the appointment for which the application is made, and must reach the undersigned not later than noon on Monday, the 21st April.

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

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

FARRA CONWAY.

Town Clerk.

Town Hall, Great Yarmouth. 659

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Inclined, Slat Conveyor; Ventilating Plant; Elec-
tric Motors; Fans and Hoists; "Dando" Pumps;
Petrol Pump; 500 Gall. Petrol Storage and other
Tanks; Cast-iron and Glazed Stoneware; Drain
Piping, etc.; Victaulic Tubing; "Versil" Insu-
lating Blankets, and a large quantity of General
Ironmongery, Hardware and Electrical Stores,
etc., to be sold by
ROPER, SON & CHAPMAN,
on Tuesday, 15th April, 1947, and following days,
at 10 a.m.

On view 8th-11th April, from 10 a.m. to 4 p.m.
daily; catalogues, 6d. each, admit two persons
on view days, and one person only on sale days,
obtainable from the Auctioneers, 162, High Street,
Hounslow, Middx. Tel.: HOUnslow 1184. 640

Architectural Appointments Vacant

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

HENRY C. SMART & PARTNERS, Archi-
tects, 120, Moorgate, E.C.2, require Assis-
tant; working drawings, details, surveys, etc.
Write, stating age, experience, and salary re-
quired. 913

SURVEYORS.—London Architects have
vacancies for Surveyors, with experience of
war damage work; salary, £500-£625 per
annum. Write, stating age, experience, and
when free. Box 645.

JUNIOR (14-16) required in Chartered Archi-
tect's office; general office work, with
prospects in profession. Clark, 44, Gt. Russell
Street, W.C.1. Museum 4400. 888

ARCHITECT'S ASSISTANT. Intermediate
standard, required immediately in rapidly
developing Architectural department. State
training, qualifications, experience, and salary
required, to Marcus Leaver & Co., 45, Brook
Street, London, W.1. 616

MINERS' Welfare Commission Architects' De-
partment requires ASSISTANTS; salary
range, £328-£640 p.a., according to age, archi-
tectural qualifications and experience; vacancies
in London and Provinces, but mainly London;
staff pension scheme after one year's satisfactory
service. Application forms from Establishment
Section, Miners' Welfare Commission, Ashley
Court, Ashted, Surrey. 618

ARCHITECTURAL ASSISTANTS required;
must be able to prepare working drawings
houses from sketch plans; salary according to ex-
perience. Saunders & Reiss-Smith, Architects, 70,
Hill Park Crescent, Plymouth. 643

DRAUGHTSMAN and SURVEYING ASSIS-
TANT wanted for Chartered Surveyor's
office. Write, giving details of experience, salary
required, and exams. passed, to C. G. Fowle,
F.S.I., 17, Bartholomew Street, Newbury, Berks.
646

EXPERIENCED ARCHITECTURAL
DRAUGHTSMAN required in busy Archi-
tect's office in Birmingham (centrally situated),
engaged mainly in Factory Construction. Write
details of experience and salary required.
Box 647.

ASSISTANTS required (20-23 years) capable
draughtsmen; surveys, working drawings,
specifications, etc.; busy private practice. Clark,
44, Gt. Russell Street, W.C.1. Museum 4400. 660

ARCHITECTURAL ASSISTANT. R.I.B.A.
(Inter.) Standard, or higher, required for
busy Cambridge office, with large varied
practice. Write for interview, with full details
and salary required, to D. C. Denton-Smith,
L.R.I.B.A., 40, Regent Street, Cambridge. 664

COMPETENT ARCHITECT and BUILDING
SURVEYOR ASSISTANT required in busy
London office. Write, stating age, experience,
and salary required, to Box 653.

ARCHITECTURAL ASSISTANT required;
4-5 years' experience. Write or 'phone,
giving full particulars, to Vine & Vine,
A.A.R.I.B.A., Tudor Chambers, Station Road,
Wood Green, N.22. Tel.: Bower Park 4788. 652

VICTOR KERR & COLBOURN, F.R.I.B.A.,
require Male ASSISTANT, of at least Inter.
R.I.B.A. standard; surveys, working drawings,
specifications; scope for initiative and responsi-
bility; £300-£400 p.a., plus bonus. Write 7,
Bedford Row, W.C.1. 656

EXPERIENCED SENIOR ARCHITECTURAL
ASSISTANT required by London Architects
to work in Midlands Office on an interesting large
scale project now in progress. Box 655.

Architectural Appointments Wanted

STUDENT R.I.B.A., with 4½ years' experience,
desires situation in Architect's office; Liver-
pool, Newcastle or Leeds area preferred; salary
required, £350. Box 283.

ARCHITECT'S ASSISTANT (36) requires posi-
tion, with office in centre or West End of
London. Box 284.

ARCHITECT, Dip.Arch., A.R.I.B.A., aged 32,
A seeks appointment in Glasgow, preferably
with view to partnership; 15 years' experience;
administrative ability, competent designer and
draughtsman. Box 285.

STUDENT R.I.B.A. (23), 6 years' varied ex-
perience London and provinces, seeks job
in Bristol area, with progressive firm; available
mid-May. Box 286.

GRADUATE, and shortly B.A.I. of Trinity
College, Dublin, requires position as ASSIS-
TANT CIVIL ENGINEER in progressive firm;
preferably in London area. Box 289.

QUALIFIED ASSISTANT (Dip.Arch., L'pool.),
good all round practical experience, requires
change from present position; Liverpool or
district office essential; available early April.
Box 286.

EXPERIENCED LANDSCAPE GARDENER
desires change; ability to draw plans to
scale, and make finished coloured tracings and
designs; wishes to enter Architect's office if
possible, or landscape designers. Box 287.

Other Appointments Vacant

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

COMPETENT SHORTHAND TYPIST required
for Architect's office in Gray's Inn; no
Saturdays. Write, giving details of experience
and salary required, to Box 661.

Other Appointments Wanted

Four lines or under, 2s. 6d.; each additional line, 1s.

TYPEWRITING undertaken at home; Bills of
Quantities, Specifications, Stencils, etc.; neat
accurate work. Write Advertiser, 61, Curzon
Road, Ealing, W.5. 599

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Alphabetical Index to Advertisers

	PAGE		PAGE		PAGE
Abbey Building Supplies Co.	xliii	Federation of Coated Macadam Industries		Oliver, Wm., & Sons, Ltd.	xlviii
Adams, Robert (Victor), Ltd.		Ferguson, Edwards & Co. (London), Ltd.		Philp Flooring Co., The	
Air Conditioning & Engineering, Ltd.		Perodo, Ltd.	xxi	Pilkington Bros., Ltd.	xxii
Anderson, C. F., & Sons, Ltd.		Flexo-Plywood Industries, Ltd.		Pollard, E., & Co., Ltd.	
Anderson, D., & Son, Ltd.		Frazzli, Ltd.	ix	Prodorite, Ltd.	
Associated Metal Works (Glasgow), Ltd.		Fyvie Gate Co., Ltd.	xli	Pynford, Ltd.	xvi
Bacterol, Ltd.		General Cable Manufacturing Co., Ltd.	xlviii	Range Boilers, Ltd.	xxxiii
Baldwin, Son & Co., Ltd.	xxv	Gray, J. W., & Son, Ltd.	xxxiii	Rawplug Co., Ltd.	
Banister, Walton & Co., Ltd.		Griffith Bros. & Co., Ltd.	xi	Renfrew Foundries, Ltd.	xviii
Bate, Jabez, & Co., Ltd.		Harvey, G. A., & Co. (London), Ltd.		Reparations & Steam Brush Co., Ltd.	
Bath Cabinet Makers & Artcrafts, Ltd.		Henderson, P. C., Ltd.	xvii	Ruberoil Co., Ltd.	
Birmingham & Blackburn Construction		Henleys Telegraph Works Co., Ltd., W. T.	xxvii	Sankey, J. H., & Son, Ltd.	x
Co., Ltd.		Hills Patent Glazing Co., Ltd.	xxxii	Scaffolding (Great Britain), Ltd.	xxix
Blundell, Spence & Co., Ltd.		Holloway, W. F., & Brother, Ltd.		Schori Metallising Process, Ltd.	xliii
Booth, John, & Sons (Bolton), Ltd.	xx	Holoplast, Ltd.		Scotney, Tom M., Ltd.	xxxv
Braithwaite & Co., Engineers, Ltd.	xlv	Hope, Henry, & Sons, Ltd.		Secomastic, Ltd.	ii
Bratt, Colbran, Ltd.	vii	Ideal Boilers & Radiators, Ltd.	xi	Semtex, Ltd.	vi
Briggs, William, & Sons, Ltd.	xliii	Imperial Chemical Industries, Ltd.		Service Electric Co., Ltd.	xliii
Brightens Foundry & Engineering Co.,		Improved Designs, Ltd.		Shaffer, James, Ltd.	xxxii
Ltd.	xiii	Ingersoll Locks, Ltd.	xv	Sherman, R. W., Ltd.	xliii
British Electrical Development Assoc.		International Correspondence Schools,		Sherwood Paints, Ltd.	xxxiv
British Gas Council		Ltd.		Sieglwart Fireproof Floor Co., Ltd.	
British Insulated Callender's Cables, Ltd.		Insulite Products Corporation, Ltd.	xxxv	Simplex Electric Co., Ltd.	xxxv
British Ironfounders' Assoc.		Iverson Electrical, Ltd.	xliii	Slasons, W. & G., Ltd.	xxxiv
British National Electric, Ltd.		Jenkins, Robert, & Co., Ltd.		Smith, Henry (Constructional Engineers),	
British Rubber Development Board		Johnston Bros. (Contractors), Ltd.		Ltd.	xiv
British Thomson-Houston Co., Ltd.		Jones, Samuel, & Co., Ltd.		Smiths' Fireproof Floors, Ltd.	xxxiv
Britmac Electrical Co., Ltd.		Kent & Sussex Contractors, Ltd.		Spiral Tube & Components Co., Ltd.	
Broadfoot, John, & Sons, Ltd.	xliii	King, George W., Ltd.	v	Sterling Textiles Industries, Ltd.	
Building Exhibition, The		Lacrinoid Products, Ltd.		Stobart & Son, Ltd.	xliii
Bull Motors (E. R. & F. Turner, Ltd.) ...	xxvi	Leaderflush, Ltd.		Sundeala Board Co., Ltd.	xxxvi
Carlisle Electrical Manufacturing Co.,		Lead Industries Development Council...		Symons, R. J., Ltd.	xliii
Ltd.		Leatherfor, Ltd.	xxxvi	Tentest Fibre Board Co., Ltd.	
Caston & Co., Ltd.	xxxvii	Lever, James, & Sons, Ltd.	xlv	Thompson Beacon Windows, Ltd., John	
Cement Marketing Co., Ltd.		Limmer & Trinidad Lake Asphalt Co.,		Thornborough & Son (Manchester), Ltd.	
Cheshire Woodcraft, Ltd.		Ltd.	ii	Thornton, A. G., Ltd.	xxxiv
Clarke & Vigilant Sprinklers, Ltd.		Lloyd Boards, Ltd.	xlv	Troughton & Young (Lighting), Ltd.	xliii
Colthurst, Symons & Co., Ltd.		Lockerbie & Wilkinson (Tipton), Ltd.	xlv	True Flue, Ltd.	xxx
Colt, W. H. (London), Ltd.	iii	Loft Ladders, Ltd.	xxxvii	Trussed Concrete Steel Co., Ltd.	
Crittall Manufacturing Co., Ltd.		London Brick Co., Ltd.	xiv	Tucker, Duncan (Tottenham), Ltd.	
Dawnays, Ltd.	iv	Mallinson, William, & Sons, Ltd.	xxxvii	Turners Asbestos Cement Co., Ltd.	xii
Doulton & Co., Ltd.		McArd, Robert, & Co., Ltd.	xxxviii	United Steel Companies, Ltd.	
Dow-Mac (Products), Ltd.		McCarthy, M., & Sons, Ltd.	xliii	Val de Travers Asphalte Paving Co., Ltd.	
Dowsett Engineering Construction, Ltd.	xxx	Merchant Trading Co., Ltd.	xix	Vulcanite, Ltd.	xxxi
Eagle Pencil Co.	xxxiv	Metropolitan-Vickers Electric Co., Ltd.		Wardle Engineering Co., Ltd.	xliii
Edgar, Wm., & Son, Ltd.	viii	Midland Electric Manufacturing Co., Ltd.		Ware, W. C., & Sons, Ltd.	
Electrolux, Ltd.		Midland Joinery Works, Ltd., The	xlii	West, A., & Partners, Ltd.	xlii
Ellison, George, Ltd.	xliii	Mills Scaffold Co., Ltd.	xlvi	Winget, Ltd.	
Empire Stone Co., Ltd.		Mint, Birmingham, Ltd.		Wood Wool Building Slab Manufac-	
English Electric Co., Ltd.		Mitchell Construction Co.	xxviii	turers' Assoc.	xxxii
English Joinery Manufacturers Assoc.		Morris, M. A., Ltd.	xliii	Wright, Anderson & Co., Ltd.	
Esavian, Ltd.	xxv	Mumford Bailey & Preston, Ltd.		Youngman, W. C., Ltd.	
Faculty of Surveyors of England, The...		National Federation of Clay Industries...			

For Appointments (Wanted or Vacant), Competitions Open, Drawings, Tracings, etc., Educational, Legal Notices, Miscellaneous Property and Land Sales, see pages xxxix, xl, xli, xlii and xliii.



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xvi
xiii
viii

x
xix
xlv
xv
ii
vi
xiii
xii
xiii
xiv

xv
xiv

xiv

xiv
xvi
xiii

xiv
xiii

xxx

xii

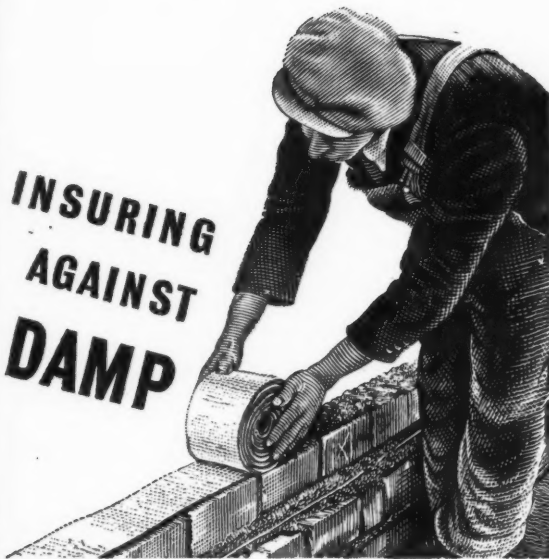
xxi
xiii

xiii

xxxi

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