# CHI



contents

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

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#### STATISTICS HOUSLNG

RSI RIB

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[Vol. 108 No. 2807] ARCHITECTURAL PRESS 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1. 'Phone: Whitehall 0611

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Registered as a Newspaper

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

	•	
IEE	Institution of Electrical Engineers. Savoy Place, W.C.2.	Temple Bar 7676
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 1, Grosvenor Place, S.W.1.	Sloane 8606
THVE	Institution of Heating and Ventilating Engineers, 75, Faton Pla	ace. S.W.1.

Institution of Heating and Ventilating Engineers. 75, Eaton Place, S.W.1. Sloane 3158 IIBD Incorporated Institute of British Decorators. Drayton House, Gordon Street,

W.C.1. Euston Museum 1783 Institute of Landscape Architects. 12, Gower Street, W.C.1. TLA

Institute of Arbitrators, 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4071 Institute of Builders. 48, Bedford Square, W.C.1. Museum 7197 I of Arb. IOB Institute of Refrigeration. Empire House, St. Martin's-le-Grand, E.C.1. TR

Monarch 7391 IRA Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 ISE Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128-29

LIDC Lead Industries Development Council. Eagle House, Jermyn Street, S.W.1. Whitehall 7264 LMBA London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891

MARS MARS Group (English Branch of CIAM). 34, Gordon Square, W.C.1. Euston 2158-9 MOA Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400

Ministry of Education. Belgrave Square, S.W.1. Ministry of Health. Whitehall, S.W.1. MOE Sloane 4522 Whitehall 4300 MOH Ministry of Labour and National Service. St. James's Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Abbey 7711 Ministry of Town and Country Planning. 32-33, St. James's Square, S.W.1. MOLNS MOS MOT

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

94, Petty France, S.W.1. Abbey 5277/8 NAS National Association of Shopfitters. 9, Victoria Street, S.W.1. National Buildings Record. 37, Onslow Gardens, S.W.7. Kensington 8161
National Council of Building Material Producers. 2, Caxton Street, S.W.1.Abbey5111 NBR NCBMP National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041 NFBTE

NFBTO National Federation of Building Trades Operatives, Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451 National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 2881/2/3 NFHS

NHBRC National House Builders Registration Council. 82, New Cavendish Street, W.1 Langham 4041 Molesey 1380 NPL Head Office, Teddington. National Physical Laboratory.

NSAS National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359 NT

National Trust for Places of Historic Interest or Natural Beauty.
42, Queen Anne's Gate, S.W.1. Whitehall 0211/2
Political and Economic Planning.
16, Queen Anne's Gate, S.W.1. Whitehall 7245
Post War Building, Directorate of. Ministry of Works, Lambeth Bridge House,
S.E.1. Reliance 7611
S.E.1. Reliance 7611 PEP PWB

Reinforced Concrete Association. 94, Petty France, S.W.1. Whitehall 9 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. RCA RIAS Whitehall 9936

Edinburgh 20396 Royal Institute of British Architects. 66, Portland Place, W.1.

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

Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1.

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

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

Royal Sahitary Institute. 90, Buckingham Palace Road, S.W.1.

Sloane 5134

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

Wimbledon 5101

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

Society for Cultural Relations with the USSR. 98, Gover Street, W.C. 1, Euston 67272/3 RIBA RICS RFAC RSA

**SBPM** SCR Society for Cultural Relations with the USSR. 98, Gower Street, W.C.1. Euston 6272 Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244 SE SFMA School Furniture Manufacturers' Association. 13, New Square, Lincoln's Inn, W.C. Chancery Chancery 5313

Structural Insulation Association. 14, Moorgate, London, E.C.2. Central Society of Industrial Artists. Room 243, Empire House, St. Martin's-le-Grand, E.C.1. Metropolitan Central 4444 Metropolitan 8344

SNHTPC Scottish National Housing & Town Planning Council. Scottish National Housing & Town Planning Council.

Hon. sec., Robert Pollock, Town Clerk, Rutherglen.

Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.

Holborn 2646 SPAB

**TCPA** Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.

Temple Bar 5006 TDA Timber Development Association. 75, Cannon Street, E.C.4. City 6146 (3 lines)

Town Planning Institute. 18, Ashley Place, S.W.1. Timber Trades Federation. 81, Cannon Street, E.C.4. TPI Victoria 8815 TTF City 1476 War Damage Commission. Devonshire House, Mayfair Place, Piccadilly, W.1. Mayfair 8866

WEDA Welfare Equipment Development Association. 61, St. Paul's Churchyard, E.C.4. City 4263/4 ZDA Zinc Development Association. Lincoln House, Turl Street, Oxford. Oxford 47988 FOR EFFICIENT

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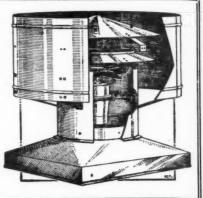
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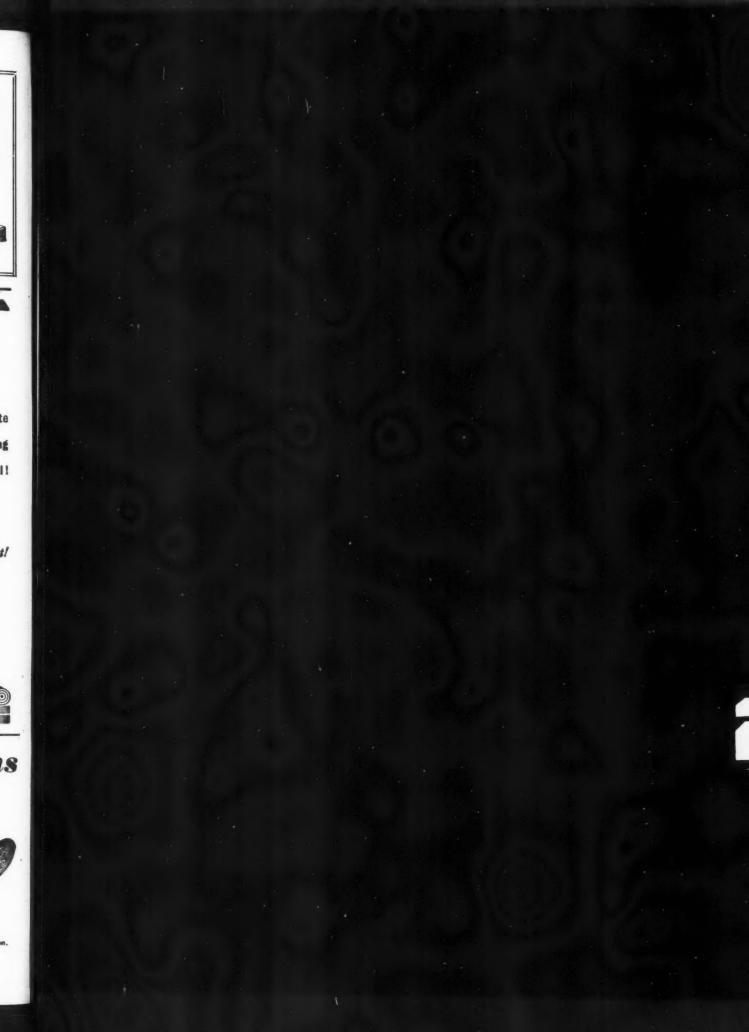


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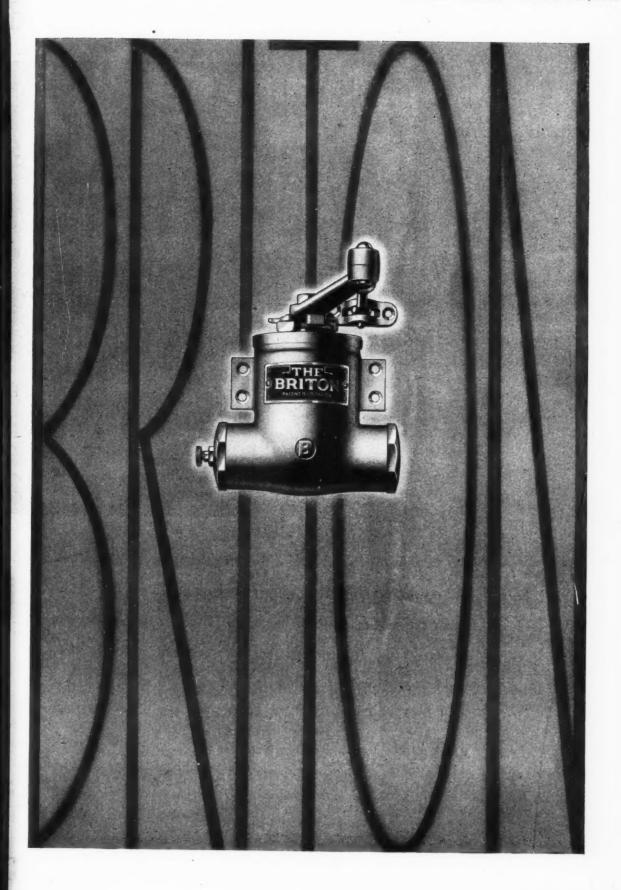
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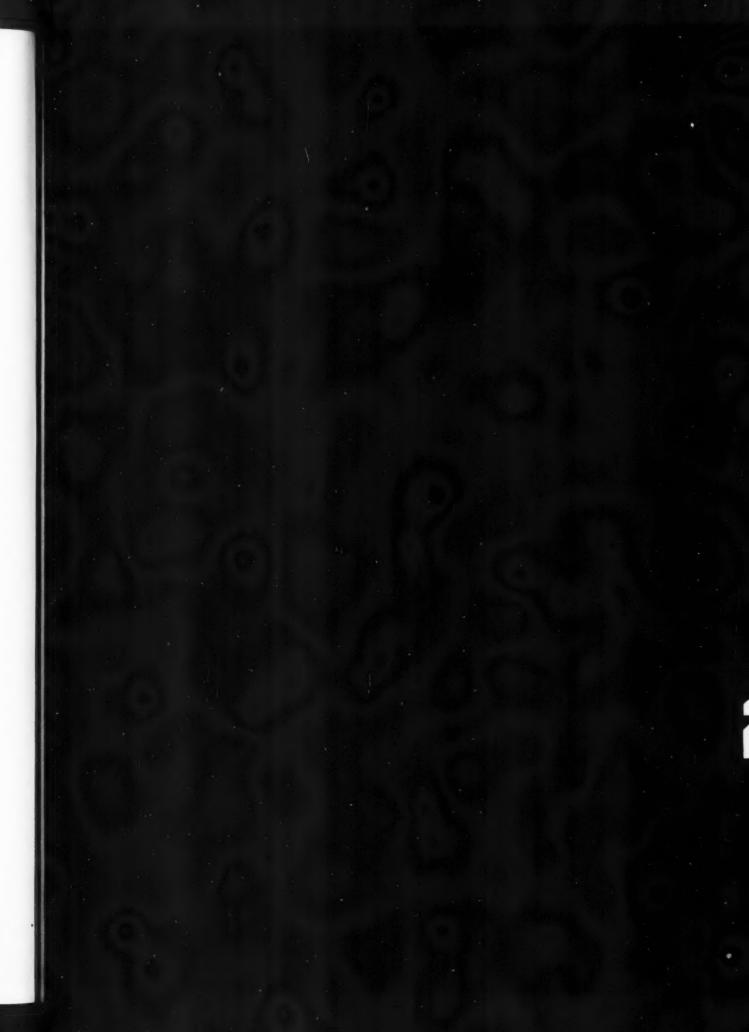
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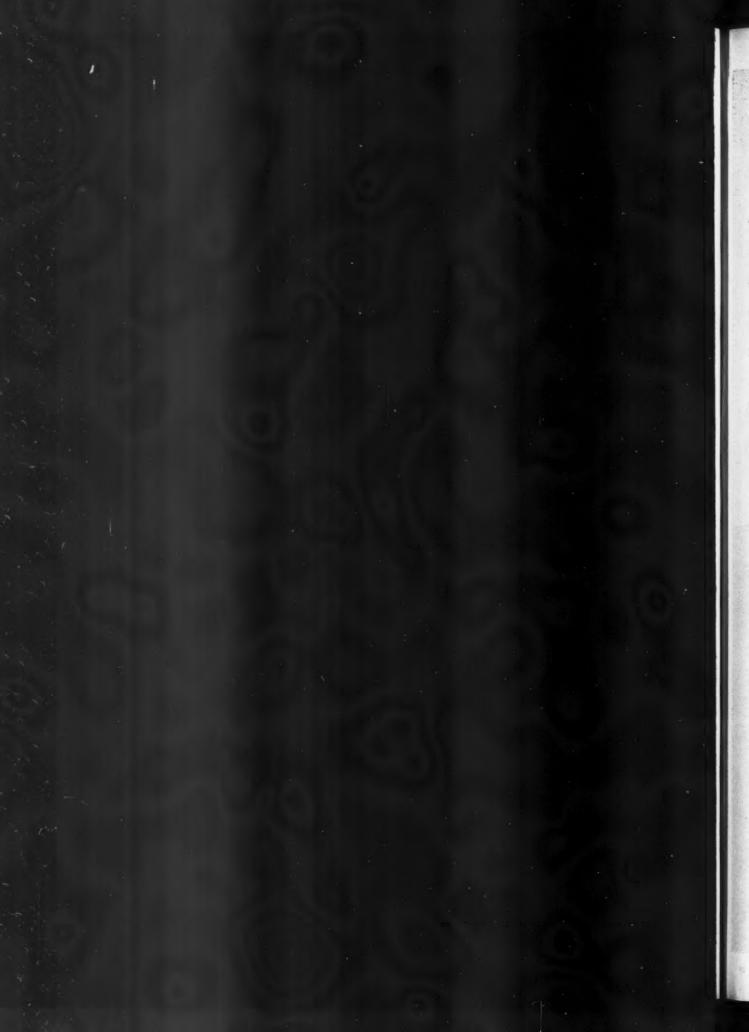
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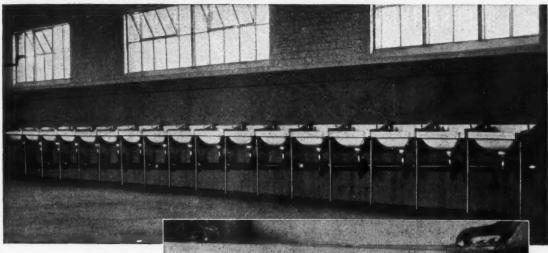


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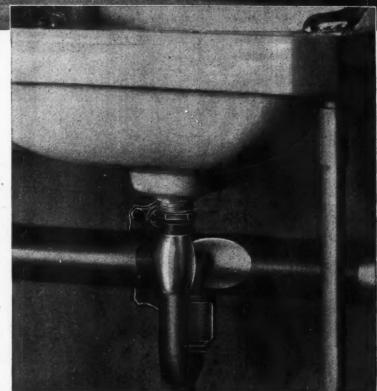






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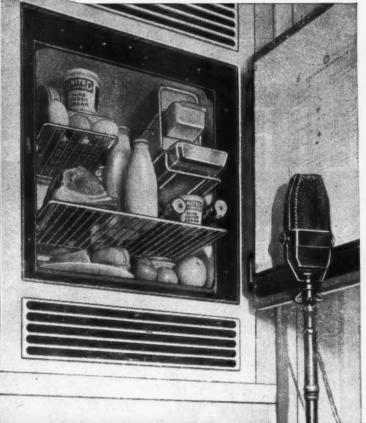
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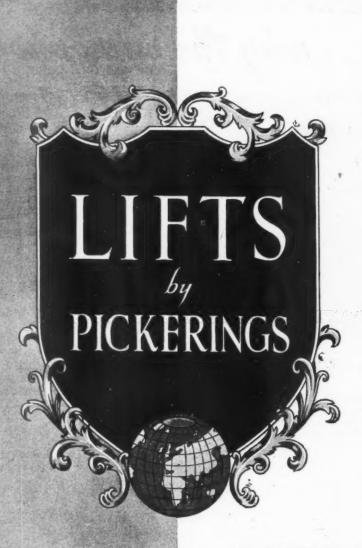
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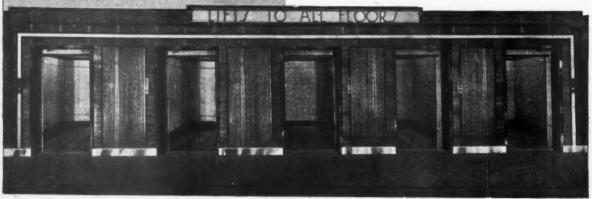
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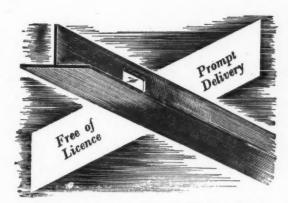
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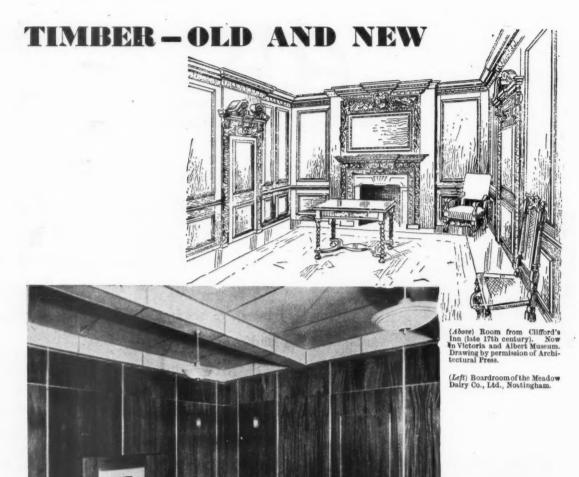
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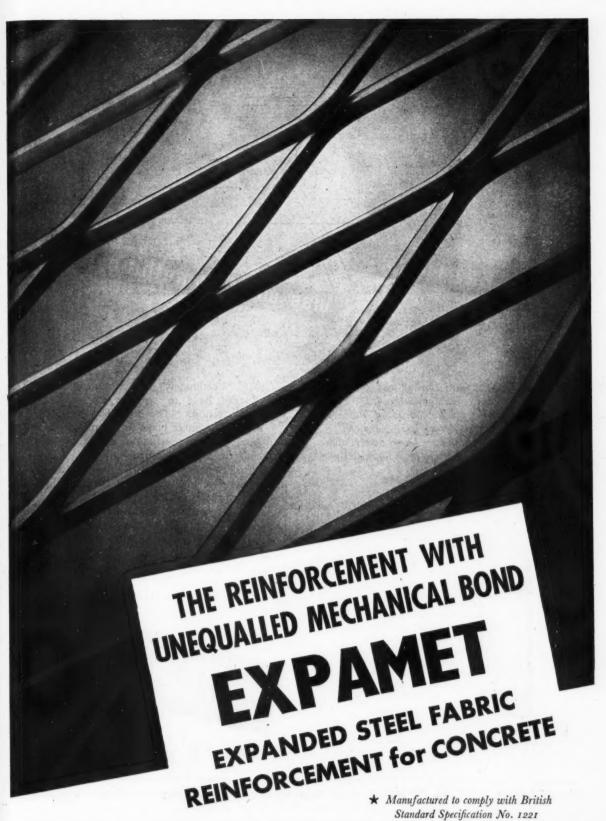
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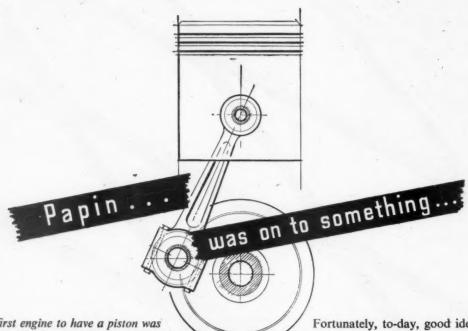
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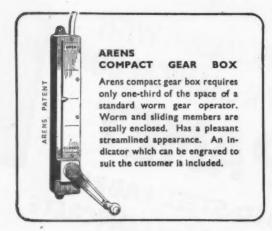
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Thermal Transmittance 'U'	1.40	1.50	0.31	0.32	8.35	9.23	0.36	0.2
Fuel Consumption tons p.a.	7.7	8.3	1.7	1.0	1.0	1.3	2.0	1.1
Gost of Heating Plant. Gost &'s	.88	94	19	20	22	14	22.5	16
Saving in Plant and Fuel dus to Geletex Insulation %			78	78	75	84	76	84

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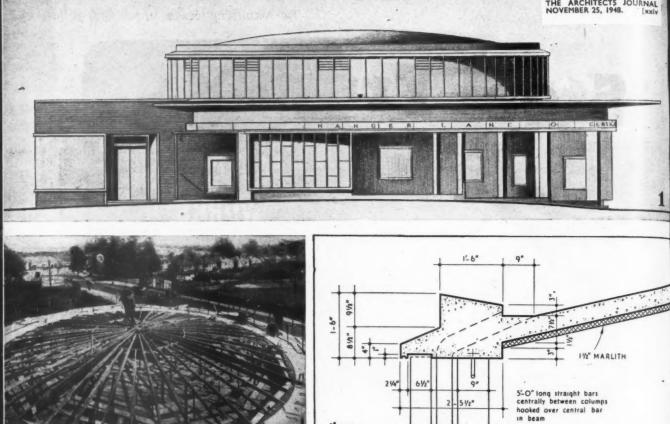
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pre-cast light

Architect: F. F. CURTIS, D.Ing., A.R.I.B.A., Railway Executive, (Western Region). Asst. Architect: HOWARD CAVANAGH, A.R.I.B.A. Assistant : P. Mac IVER.

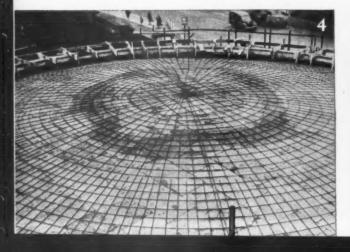
Contractors: HOLLIDAY & GREENWOOD LTD. 11, Buckingham Palace Gardens, S.W.1. Reinforced Concrete Consultants: L.G.MOUCHEL & PARTNERS LTD., 38, Victoria Street, S.W.1.

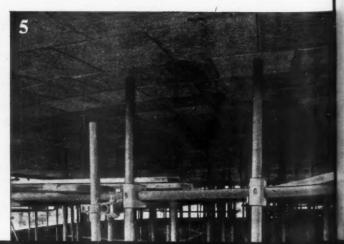
The illustrations show: 1. Elevation of design for permanent station. 2. Wooden formwork for the reinforced concrete dome. 3. Section through the top ring beam of the dome. 4. Reinforcement and permanent shuttering for the dome in 1½" Marlith. 5. A view from underneath the dome showing the Marlith slabs before plastering. slabs before plastering.

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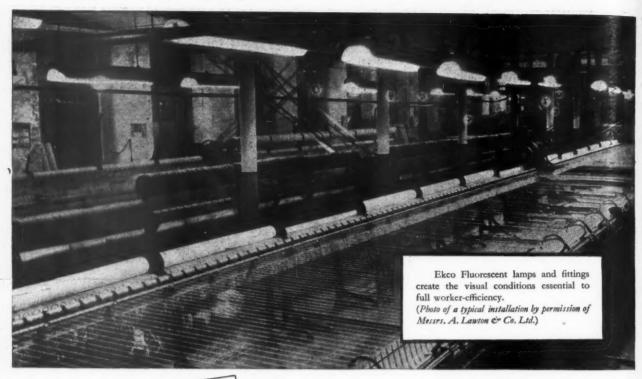
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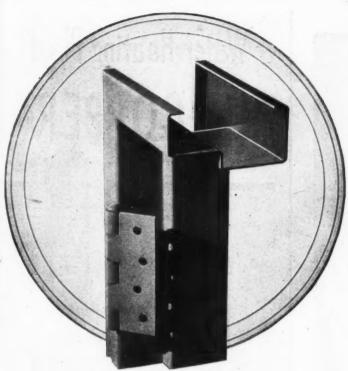
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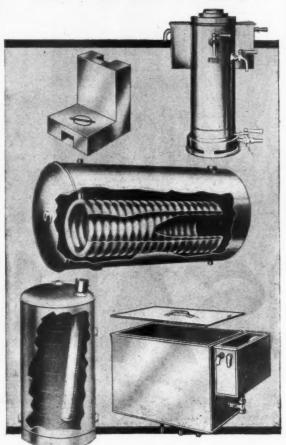
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**IS IT RUBBER?** The difference between latex foam and ordinary rubber starts from the time the liquid latex seeps from the tree.

Ordinary sponge rubber is made from solid dried sheet rubber by a process which involves mechanical kneading on powerful rollers, and thus the qualities of the natural rubber are impaired.

Dunlopillo cushioning, on the other hand, is made direct from liquid latex, and passes through no orthodox rubber processes, which tend to reduce the "life" and "nerve" of the original raw material. As a result a high degree of resilience and resistance to wear is obtained. More important still, the fact that a liquid raw material is used makes possible the whisking process which gives Dunlopillo cushioning its unique porosity and self-ventilating properties.

DOES IT GET HOT? Dunlopillo cushioning is porous throughout. As the user's movements depress and release the material, air is circulated. The result is that every Dunlopillo seat, cushion or mattress when mounted on a suitable base is actually air-cooled during use.

The reputation that rubber has for being "hot" has been gained in connection with impermeable surfaces such as groundsheets, air-beds, etc. As these have unbroken solid surfaces, and Dunlopillo cushioning has a cellular, porous construction, the two cannot be compared.

A resident in Samarang, Dutch East Indies, writes :-

"I have slept on this mattress for upwards of nine months and have nothing but praise for it . . . I can report that I have experienced no disadvantages whatever with regard to heat . . . I have not experienced the slightest odour from the rubber."

### IS IT HYGIENIC?

Yes, it is by nature aseptic, and is germ- and moth-resisting. It has nothing in it to create dust.

## DOES IT AFFECT ACOUSTICS?

Exhaustive tests conducted in Canada by Mr. G. R. Anderson, consulting acoustic engineer and former Professor at the University of Toronto, have indicated that the acoustic absorption provided by Dunlopillo cushioning is the highest of any type or upholstery filling. Extract from article by C. W. Glover, A.M.Inst.C.E., M.I.Struct.E., I.R.I.B.A., from "Ideal Kinema":—

"Theatre chairs with Dunlopillo cushions and arm rests provide the maximum of seating comfort, and at the same time the highest acoustic absorption yet reached in theatre seats."

# WILL IT LAST?

Yes. There are no springs or padding to go wrong and no separate parts to wear out. Cinema seating, etc., Installed as long ago as 1932 is still in constant use.

# WOULD MY CLIENTS LIKE IT?

The answer is an unequivocal yes—not only when they first see the smartness of seating upholstered with Dunlopillo and sample its softness, but in five, ten, fifteen years' time when they

compute what they have saved in upkeep costs. For Dunlopillo always retains its resilience and shape—having no springs to sag, no padding to pack down or form lumps—no hard edges to wear covering materials.

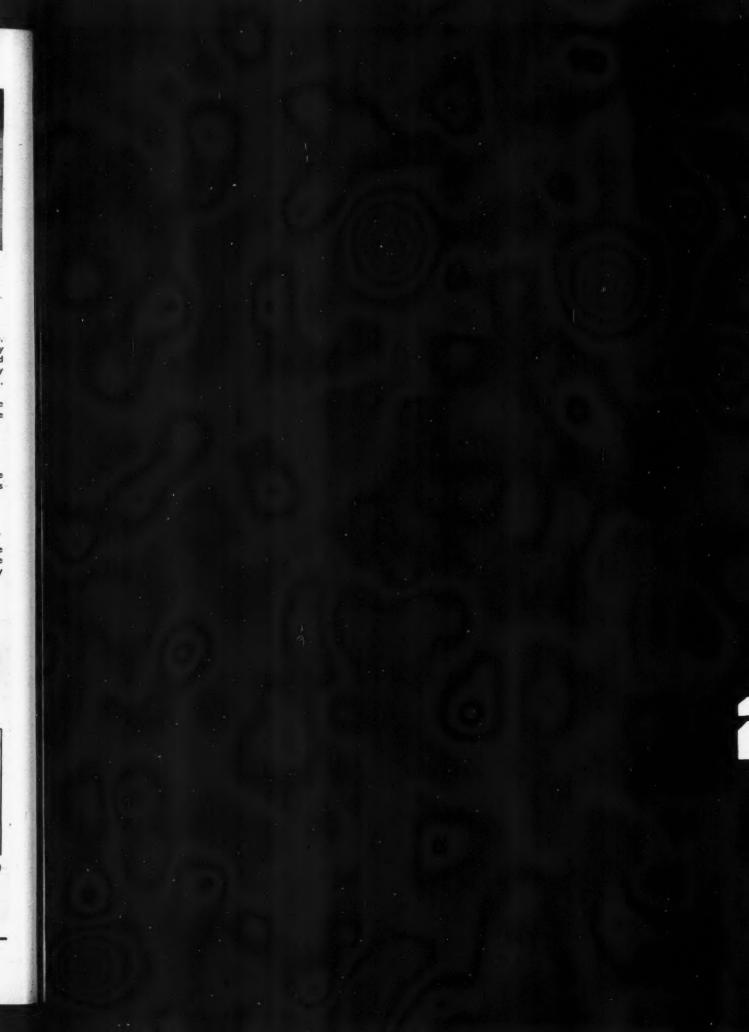


# DUNLOPILLO The original

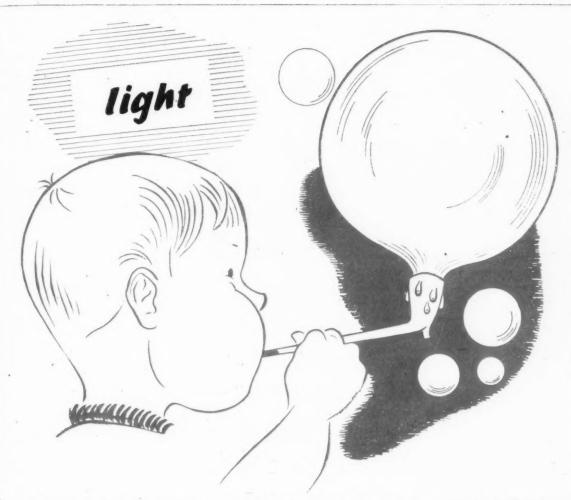
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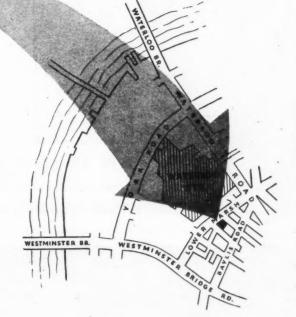


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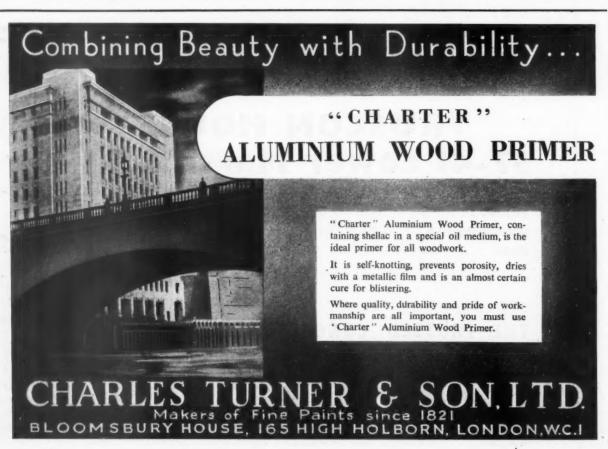
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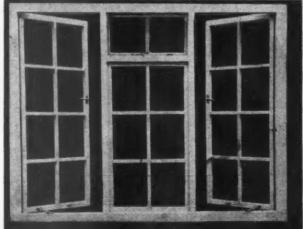
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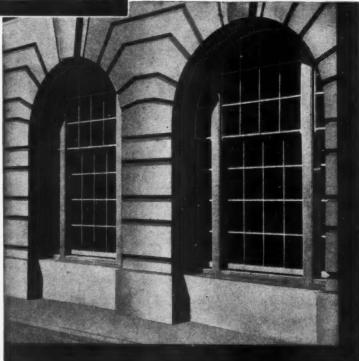
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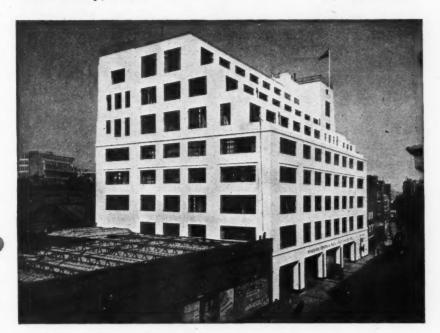
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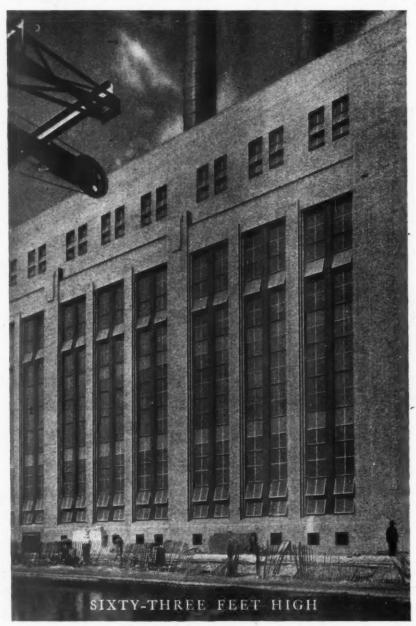


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# DIARY FOR NOVEMBER AND IANUARY DECEMBER

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

LONDON. Danish Art Exhibition. At the Victoria and Albert Museum, S.W.7. (Sponsor, Victoria and Albert Museum.) UNTIL JAN. 2

Prof. S. J. Davies. Heat Pumps and Thermal Compressors. A series of four lectures at King's College, London. (Spontor, King's College, London.) At 5.30 p.m. Nov. 25

Course in Colour and Lighting in Factories and on Machines. At the RIBA, 66, Portland Place, W.1. (Sponsor, CID.)

MOW Travelling Exhibition. At Lambett UNTIL Nov. 26 Bridge House.

Exhibition: Home Making Today. Geffrye Museum, Kingsland Road, E.2. (Sponsor, British Institute of Adult Educa-tion.)
UNTIL DEC. 4

Display of Housing and Planning Books. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) UNTIL DEC. 8

150 Years of Lithography Exhibition. At he Victoria and Albert Museum, South Kensington. UNTIL DEC. 31

Building Good Houses Exhibition. At the Science Museum, South Kensington. (Spon-UNTIL DEC. 31

National Federation of Housing Societies: Arts and Crafts Exhibition. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.)

Series of Papers on Industrial Design. A Series of Papers on Industrial Design.
M. Hartland Thomas. Industrial Design and the Engineering Industries. Dec. 15. Milner Gray. The Industrial Designer and Consumer Goods. Jan. 19. Gordon Russell. The Industrial Designer's Responsibility. Feb. 2. Robin Darwin. The Training of the Industrial Designer. Feb. 16. John Clark. Petitish Industrial Designer. Gloag. British Industrial Design and World Markets. March 2. At the RSA, John Adam Street, W.C.2. (Sponsor, RSA.) All meetings begin at 2.30 p.m.

Building Teachers' Conference. At the Northern Polytechnic. (Convener, D. A. G. Reid, Brixton School of Building.) 10.30 a.m. to 4 p.m. Nov. 27

A. W. Thomas and G. G. Baines. Aycliffe New Town. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Lunch, 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d. Nov. 30

Misha Błack. The Way Ahead in Exhibition Design. At the Small Conway Hall, Red Lion Square, W.C.1. (Sponsor, Sign and Display TU.) 7 p.m. DEC. 6

Alderman A. T. Pike. Church Army Housing. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Lunch, 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d. DEC. 7

S. Kennedy. Premises for the Operation and Maintenance of Public Service Vehicles. Henry Spurrier Memorial Lecture. At the Jarvis Hall, RIBA, 66, Portland Place, W.1. (Sponsor, Institute of Transport). 5.30 DEC 9

R. Nicholas. The Validity of Building Density and other Theoretical Standards. At Caxton Hall, S.W.1. (Sponsor, TPI.)

P. W. Macfarlane. Regional Planning Problems of the North East Coast. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Lunch, 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d. DEC. 14

Exhibition: 40,000 Years of Modern Art. At the Academy Hall, Oxford Street, W.1. (Sponsor, Institute of Contemporary Art.) FROM DEC. 21

Ian Bowen. Cost of House Building. At the Housing Centre, 13, Suffolk Street, S.W.1. (Sponsor, HC.) Lunch, 12.45-1.15 p.m., 2s. 6d. Lecture, 1.15-2.15 p.m., 6d.

International Architectural Students' Congress. At the RIBA, 66, Portland Place, S.W.1. (Sponsor, Arch SA.)

JAN, 5-8

M AIDSTONE. W. Scrivens. The Town and Country Planning Act. At the Royal Star Hotel, Maidstone. (Sponsor, S.E. Society of Architects.) 7 p.m. Nov. 30

MARGATE. National Housing and Plan-ning Conference. At the Winter Gardens, National Housing and Town Planning Council.) Housing and Town Planning Nov. 25-28

NEWCASTLE. D. A. Stewart. Vibrated N EwcAstle. D. A. Stewart. Vibrated Concrete. A course of four lectures and four practical periods. At King's College, Durham University. Course fee, 15s. Further particulars from the Director of Extra-Mural Studies, King's College, 7, Windsor Crescent, Newcastle, 2. (Sponsor, Durham University.) Nov. 29 to Dec. 3

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special emphasis. \* means spare a second for this, it

will probably be worth it.

\*\* means important news, for reasons which may or may not be obvious. Any feature marked with more than two stars is very big building news indeed.

An MOTCP inquiry has been held into the future of BEACH HOUSE, WORTHING.

Beach House is a Georgian house which the Town Council proposes to demolish in order to make way for a swimming bath.

order to make way for a swimming bath. The Minister ordered an inquiry into the question whether he should direct the West Sussex County Council to submit an Order restricting the demolition or whether the Minister himself could make the Order. Beach House estate was purchased by the Worthing Corporation 20 years ago.

Mr. E. G. Townsend, Town Clerk of Worthing, said that no one would contend that Beach House was a building of historic interest, so they were left with a section of the Town and Country Planning Act which dealt with buildings of special architectural interest. It was the contention of the Town Council that Beach House was Town Council that Beach House

the Town Council that Beach House was not in that class and was just an ordinary type of Georgian property.

Alderman J. A. Mason, a member of the Worthing Town Council, said if the Minister made an Order the council could defy it, because of the council's decision to demolish the house before the Act came into force-Mr. J. L. Denman, of the Brighton and Hove Regency Society, expressed the view that the house had exceptional artistic merit, and he would go so far as to say merit, and he would go so far as to say that it had some historic value even though that value might be local.

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# From AN ARCHITECT'S Commonplace Book

FRANK LLOYD WRIGHT'S EARLY TRAINING. [From In the Nature of Materials, by Henry-Russell Hitchcock (Paul Elek Ltd.).] When Wright came to Chicago in the spring of 1887, it was with Silsbee that he first found work, anonymously and without dependence on his family connection, since it was against his Uncle Jenkin's will that he had left the University of Wisconsin. Wright was already a draughtsman of exquisite delicacy and precision. He had then had only two years of professional training in the Engineering School under Dean Conover. As he was also employed in Conover's private office, however, these two years had given him well-rounded introduction to the practice of building. At this time Conover was supervising the Science Building at the University, by H. C. Koch of Milwaukee, and also building the Chemistry Building. The former was a clumsy, though not undignified, monument of red brick and stone of rather rudimentary Richardsonian character; the latter was a structure of the barest functional design in the local yellow brick. Other aspects of Wright's earlier education may seem now more important. Wide reading in general literature had been encouraged by the Transcendental background of both his parents. His mother had surrounded him in childhood with pictures of great buildings; while his father had nourished his passion for great music. His contract with the artistic content of the Froebel kindergarten method had come well beyond kindergarten age and was, therefore, more formative. Finally, intelligent study of such great nineteenth century architectural books as Ruskin's Stones of Venice, and Viollet-le-Duc's Dictionnaire, had given him a critical background. Such broad culture was perhaps of little interest to prospective employers.

The names of the members of the Development Corporation for the NEW TOWN AT GLEN-ROTHES, Fife, have been announced. The appointments are:—Sir Hector McNeill (Chairman), Mr. John Sneddon (Deputy Chairman), Lady Ruth Balfour, Major R. L. Christie, Dr. L. T. M. Gray, Mr. J. M. Mitchell, Baille David Wright and Mr. James Wright. The Secretary of State for Scotland proposes to invite the members to have a preliminary meeting with him at an early date. The members have been appointed for a period of two years, but will be eligible for re-appointment when their initial period of office expires. First steps in the Glenrothes project were taken in July, 1946, when the late Mr. Joseph Westwood, then Secretary of State for Scotland, discussed with Fife County Council the general question of establishing a new town in the area lying between Leslie and Markinch to house miners who would be coming into the district as mining operations in the area developed, and also to meet the industrial needs in the Leven Valley. In January of this year, Mr. Woodburn, the present Secretary of State, made the draft of an Order designating the area of the new town, and this was followed on March 31 by a public inquiry presided over by Mr. J. R. Philip. After considering the report on the inquiry, Mr. Woodburn made the final Designation Order on June 30.

Mr. G. Noel Hill, Lancashire County Architect, has reported to the County Education Committee on the INCREASE IN SCHOOL BUILDING COSTS.

From investigations conducted in the Architect's Department it was found that school building costs today are more than two-and-a-half times the pre-war figure. Two principal reasons are advanced for this:

(a) Increase in the cost of labour and materials. (b) Increase in accommodation under Ministry of Education building regulations. In the first category a workman's hourly rate has increased to almost double the 1939 figure. But actual increases are governed by other factors in addition to wages increases, such as: holidays with pay; guaranteed 32-hour week; employer's share of increased National Health Insurance; apprentices attending further education

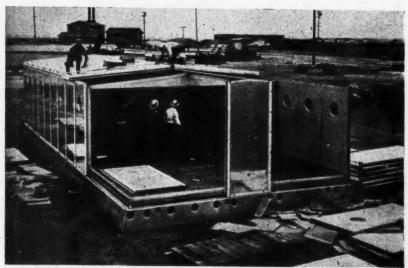
classes (with pay); and reduction per man hour in production of 31 per cent, (this figure was taken from the Report of the MOH Committee of Enquiry on the Cost of House Building)

of House Building).

The very substantial increases in the prices of materials between 1939 and 1948 must also be taken into account but, on the other hand, the Lancashire child has twice as much floor space in the school today as he had before the war. In accordance with Ministry of Education Building Regulations, school requirements have been approximately doubled. More play space must now be provided; larger assembly halls, additional cloakrooms; facilities for clothes drying; kitchen and dining accommodation; greater warmth and illumination, hot water, etc. The report goes on to say: "These features must all be taken into consideration when a school building programme is prepared by the County Education Committee. It appears that we cannot expect to maintain the very con-

siderable improvements in conditions of building and allied trades operatives, and at the same time produce the greatly improved conditions for our children in schools unless a substantial increase in costs is faced."

The Soviet Government has offered to export PLYWOOD to the UK. The President of the Board of Trade announced this last week at the silver jubilee dinner of the plywood section of the Timber Trade Federation of the United Kingdom. Mr. Wilson pointed out that shortage of plywood was a limiting factor in furniture production and that he hoped soon to announce some fundamental changes in the utility range which would give a greater freedom of design while maintaining the high standard of quality which has been associated with the utility scheme.



A new prefabricated Arctic barrack building has been designed by the United States Navy Department. It is intended to give summer warmth internally when the outside temperature is at minus 65°F. The barrack is constructed of paper honeycomb panels covered with aluminium on both sides which are strong enough to withstand wind at 150 m.p.h. and 13 ft. snowfalls. The structure is designed to be erected by men wearing heavy mittens. Tests will be carried out this winter.



# Cast Iron in Architecture

Development of the manufacture and use of cast iron played an important part in the industrial revolution and therefore in the early history of the modern movement in architecture. One of the first complete histories of this material was published last week. The book, by John Gloag and Derek Bridgwater, is titled "A History of Cast Iron in Architecture." The publishers are George Allen and Unwin. Above is one of its many illustrations: a cast-iron gate to the Sailors' Home, Liverpool, designed by John Cunningham. It was opened by the Prince Consort in 1846.

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# INDUSTRIES ASSOCIA-

TION have been appointed. This was announced last week at the Association's annual luncheon at Frascati's Restaurant. Mr. Goodhart Rendel has succeeded Sir George Schuster as president of the association, and Mr. Leslie Hardern has been elected chairman. The Danish Ambeen elected chairman. The Danish Am-bassador, Count Reventlow, was present at the luncheon. Mr. Rendel, responding to a toast proposed by Lord Sempill, a former president, spoke of the wide aims of the association. There was no wish, he said, to stereotype design, and, on the contrary, the association was anxious to encourage and foster the greatest possible freedom of expression. After the luncheon, Mr. F. R. Yerbury gave an illustrated talk on modern Danish design.

# MOW has published its SUMMARY REPORT for 1947. The report shows that the Ministry issued building licences to a total value of over £198 million, of which nearly £140 million for industrial and commercial building and £17 million for war damage repairs other than to houses. Prosecutions by local authorities for offences against building regulations were successful in 276 cases, involving fines totalling over £130,000. Another 178 cases in which fines amounted to £22,466 were dealt with by the Director of Public Prosecutions and the Crown Office. Over a million operatives were employed in the building and civil engineering industries during 1947. During the year 32,507 build-ing and civil engineering craftsmen passed out of Government training centres, making 50,276 since the training scheme began.

A Bill to provide funds for the NATIONAL THEATRE has been introduced in the House of Commons. The Bill proposes to provide from public funds a substantial part of the capital cost of the National Theatre which is to be built on the south bank of the Thames. The Chancellor of the Exchequer announced in March that on condition that the LCC provided a suitable site it was proposed that the Treasury should make a contribution not exceeding £1 million towards the cost of building the theatre. The actual amount will depend on the total contribution which may have become available from other sources by the time it is possible to begin building the theatre, which is unlikely to be within the lifetime of the present Parliament.

# NEWS IN BRIEF

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Owing t o ill-health Mr. George Checkley is retiring from the post of principal of the Nottingham School of Architecture. Mr. D. G. Thornley, the senior lecturer, has been appointed acting

Mr. Leon Berger, Deputy Borough Architect of Southampton, has been appointed by the Town Planning Committee to fill the position of Borough Architect, vacant by the resignation last July of Mr. Denis Winston, now Professor of Town Planning at Sydney University.

Mr. R. A. Williams, Principal Assistant Architect, Bucks County Council, has been appointed Deputy County Architect of the Cumberland County Council.

# New Officers of the DESIGN AND THE LABOURER AND HIS HIRE

NE aspect of the recent correspondence in the JOURNAL arising out of the series Round the Table, is of such importance that it is worth while giving it some consideration. This is the payment of architects. The correspondence generally discussed a real or exaggerated antagonism between the private practitioner and the public employee. One of the arguments presented by the latter is that the community is able to receive professional services at a lower rate through the establishment of architectural departments within the local authorities to carry out most or all of the

architectural work they require. Looking at the matter a little more broadly, however, two or three questions arise. Are these economies resulting in a mediocre product-it is this aspect that has received most attention—secondly are the services of the architect recognized as being significant and is his professional advice accepted and respected, and, thirdly, is the architect adequately compensated for his work by way of remuneration and acknowledged status? The first of these questions is the subject of perennial discussion and will not be laboured here. With regard to the second, despite lip service by several distinguished Ministers, and frequent references to the judgment of posterity upon contemporary building for its quality as well as quantity, there is but little evidence that the architect is recognized as an essential contributor to any building project. Architects are the least publicized and the least recognized of professional While the private client was the well nigh universal patron, to point out that the architect could positively save money by protecting the unsuspecting client from dishonest builders may have been sufficient to encourage his employment. It is so no longer. It must be made clear that architects add something to the well-being of the nation and its people that is a part of civilized existence.

The third question, as to whether the architect is adequately remunerated for his work is relatively easily answered but to find a remedy is not so simple. There is no doubt that even at the full RIBA scale, and he must be a very wellknown or well-established architect who can charge more, the architect with a moderate practice who is conscientious and attends personally to the work that he undertakes must find it very difficult to make ends meet. For the man who undertakes work as a private practitioner for local authorities on such work as housing the difficulties are greatly increased. The familiar argument that the same percentage is still adequate as building costs have also risen is to neglect the very considerable additional duties the architect is called upon to perform. The complex negotiations and labours attending obtaining licences, materials, planning consents and now a number of new responsibilities arising from the 1947 Planning Act, were none of them envisaged when the original percentage was determined. It is true that for lesser contracts, the scale of fees has recently been somewhat increased by the RIBA.

This is all to the good, but the grossly inequitable agreements for local authority work still remain.

The architect who is not prepared, and none should be, to accept stock and shop solutions for housing work inevitably

finds that he suffers financially as a result.

The inevitable rejoinder is that any increase in fees will result in less work being given to private practitioners, and much work, at present in the hands of architects, being built without their benefit. If the RIBA can convince Ministers, especially the Minister of Health who has many times expressed an appreciation of the importance of architects, that cut-price payment is a false policy, and can at the same time stimulate public appreciation of the architect's role, there is no doubt that architects would be able to give of their best, secure in the knowledge that by giving if they would not be endangering their livelihood.



The Architects' Journal

9, 11 and 13, Queen Anne's Gate, Wastminster S. W.1 Phone: Whitehall 0611

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WIDENING HORIZONS

The oldest dormitory at Harvard University dates from 1720 and almost every period and style since that date is represented round the campus except contemporary building. The gap is now to be filled. Harvard has commissioned Walter Gropius (for ten years chairman of the university's own Department of Architecture) and his firm, the Architects' Collaborative (TAC), to build new graduate dormitories and Commons Hall. TAC consists of seven young ex-students of Harvard in addition to the master himself. I don't know much about their architectural achievements, but I have seen a very interesting system of timber "ready cut" panels for small house building which the firm has worked out. This

will, however, not be used in the new Harvard buildings, which are to be faced with brick and cast stone to " preserve the homogeneous aspect of the university."

News from another American university is contained in a bulletin I have just received from Yale, announcing that visiting critics have recently been appointed to the School of Architecture to supervise problems in advanced architectural design. scheme was started last year and the critics will be in residence for five weeks each. They are Sweden's Sven Markelius, who was one of the UN Headquarters Commission, Eero Saarinen, who won the Jefferson Memorial Competition recently illustrated in the JOURNAL, Pietro Belluschi, Hugh Stubbins and John Sloan. All of them are architects with busy practices and considerable achievement. It looks as if Yale is trying to outshine Harvard in its galaxy of international talent.

The AA is not being left behind either. though its new appointments are attended by no press releases or press publicity. This term I notice that Jaromir Krejcar, lately arrived from Czechoslovakia, the designer of the new Lidice and an active member of CIAM, has joined the teaching staff, where Arthur Korn, author of the wellknown book Glas in Bau and designer of the Fromm factory in Berlin is already an institution. Also on the staff are M. Ahlgren, a Swedish architect who is putting in a year

showing English students how Swedes go to work, and de Pierro, a Canadian from McGill University. It is interesting to remember that Steen Eiler Rasmussen, whose book London the Unique City I referred to a few weeks ago, got his first introduction to, and love for, London as a teacher at the AA school.

### RIGHT AND LEFT HANDS

As everyone has now holidays with pay, more and more people will want holidays away from home-usually at the seaside. But it is a fairly safe bet that during the next seven years very few people indeed will have the money or the licence to build decent holiday homes. If it was not for the Planning Acts, one would therefore say that the old-world trouble of shack development was likely to be upon us again in a big way.

This will not occur because the planning authorities, urged on by Mr. Steers' report and supported on appeal by MOTCP, will refuse permission for further shack development, owners of existing shacks will continue to prosper, would-be shack-owners will sorrowfully continue with status unaltered. At least, administrators wanting an easy life probably hope this is what will happen.

In fact, the conversion of a railway coach into a week-end home makes a minimum demand on the building industry; large numbers of British coaches are now growing old, and scrapped coaches can in fact now be bought and delivered at a moderate price. It is therefore quite possible that next year British Railways, a semi-Government Department, will be doing a brisk trade in old coaches, and other sections of central and local government will be spending thousands of man-hours preventing the new owners using them. I don't think the public, including thousands of thwarted holiday-makers, will stand for this.

The solution is surely for MOTCP to act in advance of the event-to find out how many coaches will become available, how long a subsequent life can be reckoned on, the costs of conversion and re-erection in reasonably edes anat is teen don few tion

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C. H. WOODWARD, PRINTER AND PUBLISHER, DEVIZES

sightly groups, and, if these inquiries are encouraging, to induce seaside towns and other approved developers to erect camps in which suitably inconspicuous old railway coaches will be used instead of huts for the first five or ten years.

### THIS IS WHERE WE CAME IN

A diligent search at the Motor Show failed to disclose any English car manufacturer marketing that latest American device now being advertised at five dollars exclusive of fixing. a speed-control fixed to the steering column and "designed to eliminate the foot-fatigue which afflicts drivers on long journeys." In other words it's a hand throttle-a feature familiar to most of us who drove cars in the 'twenties, and one which was replaced in later models by the accelerator-pedal, designed, no doubt, to eliminate hand-fatigue on long journeys.

This reversion to earlier details—shall we soon have starting-handles to reduce wear and tear on batteries?-is an interesting development which is echoed incidentally in the new London Transport buses, where the old-fashioned electric bell is being replaced by the far

A reader recently sent Astragal a copy of the North Wilts Church Magazine, the cover of which is reproduced here. It is remarkable that such an uncompromising period piece should have survived completely unchanged, the more so since as a piece of design its merits are very questionable. But its charm is undeniable, if only because of its nostalgic qualities and its reminiscence of the naïveté of a more spacious age. Se e also Astragal's note "This is where we came in."

more efficient and convenient piece of looped cord (yank once to stop the bus). Architecture, of course, has not escaped the process-it's only a few months since we were shown a building described as unusual because the walls were no longer treated as screens, but used as part of the structure, and doubtless we have not heard the last of it. "New or old," Mr. Goodhart-Rendel once said, "it will all be old one day, so why worry?" Why, indeed, since it will also once again be new.

# SAY IT WITH DIESELS

It seems a pity that the Public Works exhibition should be open for a bare week, for there is plenty of large scale equipment to see, even though the use of it may not be strictly the architect's business. But on the average site the big scrapers and bulldozers are hard at work, and it is interesting to be able to see them in comfort and without a coating of mud. There was plenty of plant on show, and not only for the big contractors. The old jibe that the builder is behind the times and reactionary looks like being less true than ever it was, for now the mechanical aids go down in cost almost as far as the two-house-a-year man.

### COLLECTORS' ITEM

News for those of you who sometimes throw away the Journal, forgetting to tear out the Information Sheets. The Editor tells me that the series is going to be reprinted, and readers will, in future, be able to obtain extra copies to replace those lost, stolen or worn out. This will apply to all issues dating from October 2, 1947, when the new scheme started.

### IT'S THAT RETIFMAN AGAIN

All Betjemaniacs-of whom not one I suspect is more dangerously rabid than myself-will welcome the new collected edition of his poems (John Murray, 8s. 6d.) This, I think you'll find, contains most of your favourites-certainly all of mine—as well as several new poems published for the first time in book form. In a foreword John Sparrow contributes an affectionate analysis of Mr. Betjeman's progress from the early facetiae to his later and more moving lyrical achievements, and re-emphasizes for us those qualities for which his poetry is always so remarkable—the sense of place, the ready compassionate sensibility, the eye for detail and the ear for rhythm. I don't know how many shopping days there are to Christmas, but it couldn't matter less, as here is something you may buy as a present but will inevitably keep for yourself.

ASTRAGAL

# LETTERS

Fourth Year Student

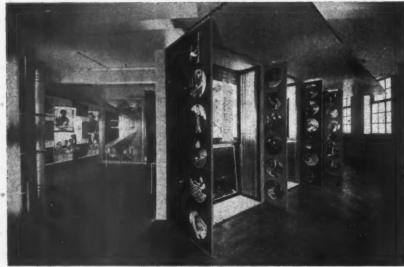
# The Difference Between Studio and Office

SIR.—Recent publication in the JOURNAL and elsewhere of schemes for housing and industry gives emphasis to the great difference between the standards prevailing in the studio of a school of architecture, and those that are worked to in a busy office. Designs by well-known firms, leaders in the profession and idols to most students at some stage in their education, contain de-tails, especially of planning, which would earn any Third-Year student an emphatic

This would seem to suggest one of two things; either that when a student becomes a practising architect, "rationalization" and "integration" are forgotten under pressure from lack of time, money and taste on the part of the client; or that there is something lacking in an effectional evistor which lacking in an educational system which leaves the poor student to face the harsh realities of life in practice unprepared by five years' intensive application of Frank

# TRAVELLING EXHIBITION FOR MOW







Five travelling exhibitions, produced by the Ministry of Works for display to schools of building, local authorities, builders, and the public, are on view at Lambeth Bridge House, S.E.I., until the end of this month. The subjects are: Codes of Practice; Site Costing; the Building Apprenticeship and Training Council; Thermal Insulation; and Temporary Houses. The exhibition displays have been designed by Ronald Avery as separate travelling units, and Ronald Avery as separate travelling units, and each has its own self-contained lighting. After leaving London the exhibition will go on a tour of the regions in the new year. The photographs on this page, reproduced by courtesy of MOW, show general views of the displays and their layouts.

Lloyd Wright and Corbusier to "a large, level site in Hertfordshire."

Moreover, the solution of the difficulty does not appear to lie in the system of working in an office by day and attending a school by night, as the majority of evening students seem to live two completely separate lives architecturally; Lady Blank's garden shed in the office, and shell concrete roofs in the studio.

The problem of this wide gap between theory and practice is one which must be solved if the student is to make the most of his education. And the solution is likely to provide a far better "weeding-out" process than any tightening-up of standards has done so far. examination

FOURTH YEAR STUDENT

### In Parliament

At question time in the House of Commons, Mr. R. De la Bere (Con.—Evesham) protested about the exclusion of the press from zonal conferences, which consider the allocation of building labour and materials between the principal suppose the pri between the various local authorities. He called upon the Minister of Works, Mr. C. W. Key, to remove this disability from

press representatives.

Mr. Key replied that zonal conferences were in no sense public meetings. The press did not attend inter-departmental meetings held for the transaction of official busi-ness, and these meetings were of the same He saw no reason to change the type. practice.

Mr. De la Bere: Do not these conferences bring out many of the reasons for the almost unbelievable slowness in building?

the public has a right to know what these reasons are, and surely the whole object is defeated if the conferences are kept secret?

Mr. Key remained unconvinced. He did not consider that the kind of discussions which took place at zonal conferences could be adequately and properly carried out in

public.

Mr. De la Bere said that in view of the unsatisfactory nature of the Minister's reply

he would raise the matter again.

Another question to the Works Minister concerned the flooring in the new chamber of the House of Commons. Brigadier R. Rayner (Con.—Totnes) asked if it was the intention to use Polymeration Endiging others. intention to use Palmerstoni Endriana, otherwise known as Australian walnut, and Mr. Key said he understood that the architect did propose to use this type of wood for the flooring. Amid laughter, Brigadier Rayner then asked: "Is the Minister aware that then asked: "Is the Minister aware that about every fiftieth plank of this otherwise excellent hardwood develops a most frightful smell, and will he, entirely in the interests of the House, see that every plank is carefully examined before being put in?

Mr. Key: "I am sure those concerned will do that."

do that.

Mr. A. C. Bossom (Con.—Maidstone) questioned the Board of Trade about the United States offer, made in the early part of this year, to provide our builders with the timber for 10,000 houses without payment

for five or six years.

Why had the offer been refused, he asked.

Mr, A, G. Bottomley, Secretary for Overseas Trade: "Because acceptance of the offer would merely have established an eventual dollar liability which we could not offerd" afford."

Mr. C. W. Dumpleton (Lab.—St. Albans) asked the Minister of Health if, in view of the present costs of building, it was intended to amend the Small Dwellings Acquisition Act so as to raise the limit on the price of houses on which borrowers might obtain loans under the Act.

Mr. Aneurin Bevan said that this matter

was under consideration in connection with the housing bill to be introduced during this

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### PHYSICAL PLANNING SUPPLEMENT

The preliminary regional plan for Copenhagen illustrated on these pages was prepared by an Advisory Committee of the Danish Town-Planning Institute under the chairmanship of Steen Eiler Rasmussen. It proposes a planning pattern that has not been advocated in any planning schemes in this country and is of considerable interest for this reason. The views show the character of the landscape, top: left, the flat, fertile agricultural plain to the west of the city, right the rolling, wooded country to the north, bottom: left, a diagram showing how the proposed extensions correspond to the fingers of a hand, right, an aerial view of the central city, with the central and southern part of the harbour.

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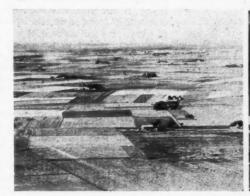
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# NHAGE OUTLINE REGIONAL PLAN

BY AN ADVISORY COM-MITTEE OF THE DANISH TOWN-PLANNING INSTITUTE

# the growth of the city

For two hundred years from 1650, when King Christian IV finished his activities until 1850, the shape of Copenhagen hardly changed. The city was bounded on all sides by earthworks and fortifications and through it flowed an arm of the sea making it in the seventeenth century, as today, an important harbour. Within these fortifications the city grew, and by the middle of the nineteenth century was beginning to spread beyond them. On the map of 1880 ribbon development can be seen along the roads leading from the city, while beyond the chain of lakes that girdled Copenhagen outside the walls to the north and west, scattered houses were appearing. From 1530 to 1850 in all important respects the street plan remained the same, though two disastrous fires in the eighteenth century, in 1728 and 1795, and another following the bombardment, by Nelson, of 1807, destroyed virtually the whole of the old town. For several centuries

since the sixteenth century the town found enough room to grow within the old fortified line independently of the city walls. The direction given to the development of the city by King Christian IV guided its growth through the following two centuries, at least on the western side, while on the eastern side dredging and filling provided sites for naval and harbour establishments.

### Copenhagen today

Lying on the east coast of Denmark the city could develop only north and westwards; to the south a great bay forms a boundary, while to the south-east across the strip of sea that provides Copenhagen with its harbours on the large island of Amager is the eastern part of the city. To the north is rolling wooded country, the natural recreation areas for the population, and to the west the fertile plain of central Denmark stretches right across the country. Here is



the country's major industry, agriculture. Of Denmark's total population of four million, the Copenhagen region today has one million, one hundred thousand inhabitants, and is still increasing in numbers. This intense concentration of population in so small a country, more than a quarter of the people living in one city, has been the subject of much vigorous discussion, from economic, sociological and strategic points of view. In the absence of a national plan, or, indeed, the data upon which to base such a plan, such discussion is inevitably inconclusive. For the purposes of the regional plan, therefore, current population estimates by statistical departments have been accepted as basic assumptions. According to these estimates, the city will continue to grow to an arbitrarily assumed limit of one and a half millions. The planning commission considered it desirable to prepare proposals, not only for this maximum population, but also for an intermediate stage of 1,300,000.

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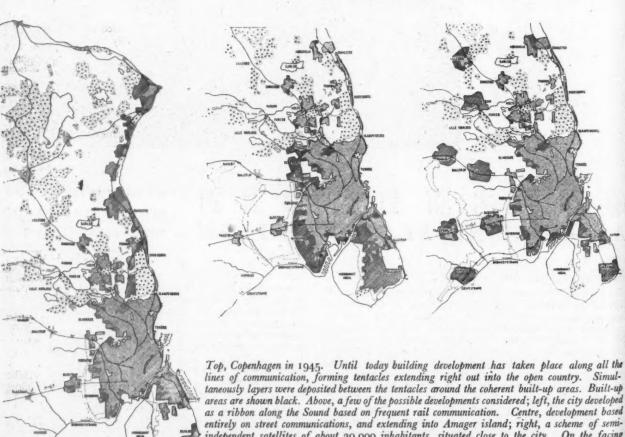
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# what kind of extension?

To accommodate the increasing population and provide space for those who would be evicted from the existing city as a result of internal improvements and re-planning, the first decision the Commission had to make was on the form of the future development of the region. The following proposals were examined: (1) To allow the city to grow as it had been growing up to the present, fill in gaps, extend the periphery, and expand the city to the south-east on Amager island; (2) To extend the city as a coastal strip northwards to the town of Elsinore, including and expanding several existing small towns, thus utilising the natural advantages of the coast line; (3) To build a number of satellites, some as entirely new towns, others through the extension of existing towns, each to have an eventual population of 30,000. These satellites would be semi-independent and sited



lines of communication, forming tentacles extending right out into the open country. Simultaneously layers were deposited between the tentacles around the coherent built-up areas. Built-up areas are shown black. Above, a few of the possible developments considered; left, the city developed as a ribbon along the Sound based on frequent rail communication. Centre, development based entirely on street communications, and extending into Amager island; right, a scheme of semiindependent satellites of about 30,000 inhabitants situated close to the city. On the facing page, the Committee's proposals: extension along existing and new railway lines as fingers In these plans the new extensions are shown by heavy stretching out into the open country. shading, the existing built-up areas by light shading.

fairly near to the city; (4) To stop any increase in the size of the present city and develop five existing small towns at a greater distance than those in Scheme 3, into independent satellites of 50-80,000 inhabitants; (5) To develop the city in a series of "fingers," with green wedges between, as indicated by the diagram on page 485, and the map on page 487. This last suggestion was the one adopted by the Commission.

# the general proposals

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The Commission considered that no scheme would be acceptable that failed to take into account the natural growth of the existing city. An urban development of centralized Continental type should not be forced by planning into another mould, and the report indicates that the Commission paid consideration to the possibility that planning ideas of today may not continue to be acceptable over the long period through which Copenhagen will continue to develop. They were unwilling, therefore, to impose a new pattern on the region, preferring to expand satisfactory features of the existing development, and ameliorate the unsatisfactory features. The possible extension of Copenhagen is, of course, limited in direction by its location on the coast, a sector of 120 degrees only being available for further growth.

The Commission's proposals are based, first of all, on stopping any further concentric growth, this necessity being regarded as cardinal, and then by establishing further suburban traffic routes, only two existing at present, enlarging the area in which travelling time to and from work will not exceed forty-five minutes. Thus a series of "fingers"

stretching westwards into the country, with industrial zones at the roots of the fingers (see diagram on page 488), were established. Another diagram on page 488 shows the forty-five minute zones. Between those built-up areas, with their own industries, residential areas and community buildings, the country will penetrate deeply into the enlarged city. Parallel with the new suburban railways, a new system of wider roads is planned, free of intersections with local roads. These trunk roads skirting the edge of each finger will be linked by a ring road at the periphery of the present city. These roads will carry not only long-distance traffic, but also that from the new station developments. Eventually with the re-planning of the old city, the new road system will be extended to the centre with additional ring connections.

The type of development proposed will permit easy access to the country from the new wedges, greatly extending the edge of the city, which will all be in close contact with the countryside. At the same time new woods are to be planted and the facilities for sea-bathing developed to the south-west, to encourage the extension in this direction. The north is already well wooded and at present forms the natural recreation area for the inhabitants.

### the harbour

Communications between the mainland and Amager island are at present seriously interrupted by the layout of the harbour and port facilities. While all vessels arrive from the east, the port extends the whole length of the Straits. The plan suggests great extension of the port to the south, with an entrance from that side, separated from the northern part by bridges and locks, providing improved communications between island and mainland, and avoiding the present mutual interruption of sea and land traffic.

### industry

The existing industrial zone is regarded as being well sited, roughly forming a ring along the only existing circular rail-way. It is not proposed to re-site any of these industries; indeed, they are considered to accord very well with the new proposals.

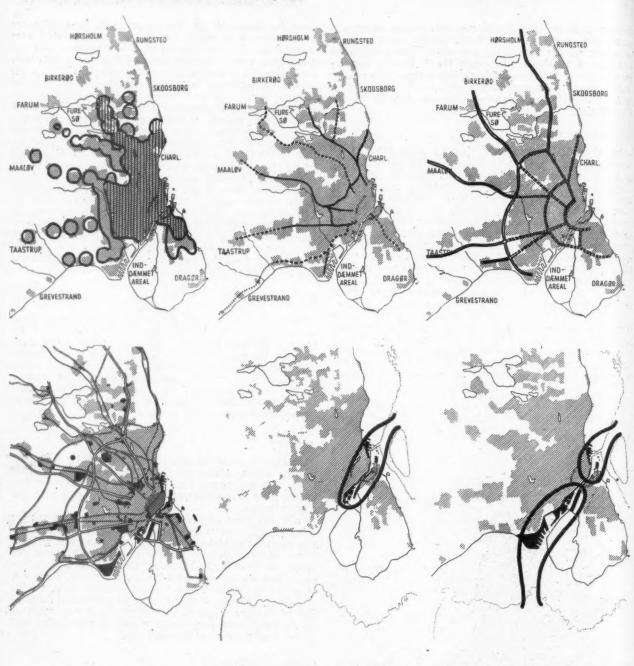
Eventually there will be two industrial rings, the present one and a new one at the roots of the "fingers." The latter will be extensive and specially equipped; there will be additional smaller industrial units located round the new rail communications in the "fingers" themselves. Thus distributed between the various sections of the city, there will be excellent communication between industry and the town as a whole. The highly-organized traffic system and the location of industry suggested should put within easy reach of all the inhabitants a reasonable choice of employment and all the other facilities of a capital city.

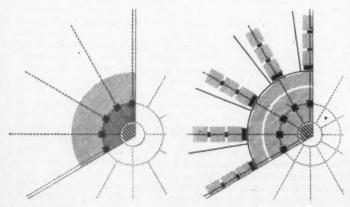
### urban sub-divisions

The residential group of 1-2,000 persons is regarded as the most important as well as the basic unit. At this level it is possible to provide a number of "home extensions," such as kindergartens, nursery schools, playing fields, clubs, and a certain number of shops. The largest unit, the "district," is described as a natural development in harmony with geographical features. In the "fingers" these districts correspond to natural groups around the stations (10-20,000 inhabitants). In the old town the districts are expected to vary widely in size and in number of inhabitants. These districts will have civic centres, schools and all types of 'dwellings, blocks of flats, row, detached and semi-detached houses. The Commission did not feel sufficiently confident of the functional value of the medium-sized "neighbourhood unit" to give it the importance it has assumed in many other town-plans. It is anticipated that the structure of the residential units will change; at present only about 25 per cent. of dwelling units are detached or semi-detached houses. This proportion is expected to increase greatly and at the same time many flat-dwellers will acquire country cottages near



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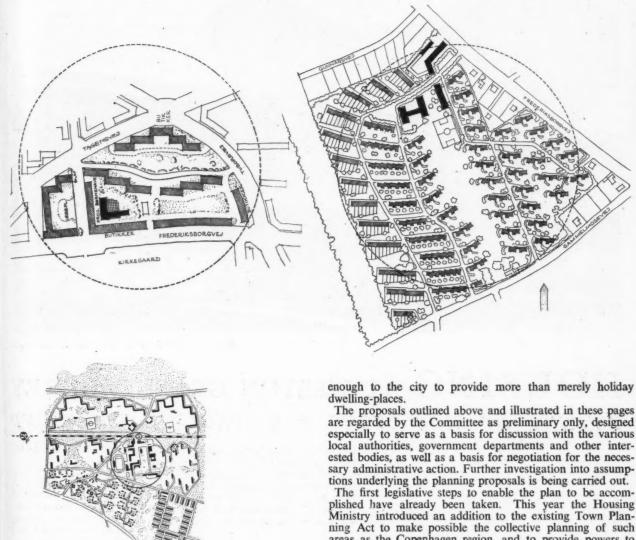




Top, left, a diagram showing the 45-minute travel areas outlined with a heavy line. The circles also show distances of 1 km. from the proposed new stations. Centre, the new electrified railways system. Existing railways are shown with a solid line, proposed extensions, dotted. Right, the new system of motorways, the extension of these motorways within the city is shown dotted. Above, left, the location of industry in the plan, industrial areas shown black. Centre, the existing port and its approach; right, the proposed southern extension. Bridges and locks separate the two parts.

Extreme left, a diagram of the present industrial distribution, left, the principle of industrial location underlying the new proposals. Industry is shown in black.





Top, left, an existing group of flats; right, a project for a residential group of 1-2,000 persons with various types of houses and supplementary institutions. The circles enclose the same area in each plan. Above, a "district" unit. The civic centre is enclosed in a circle, various types of dwellings are shown, flats, and houses, detached, semi-detached and in rows. The districts of 10-20,000 inhabitants are to be developed round the stations, marked S in this lay-out.

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tensions, of these eft, the

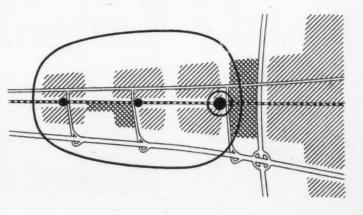
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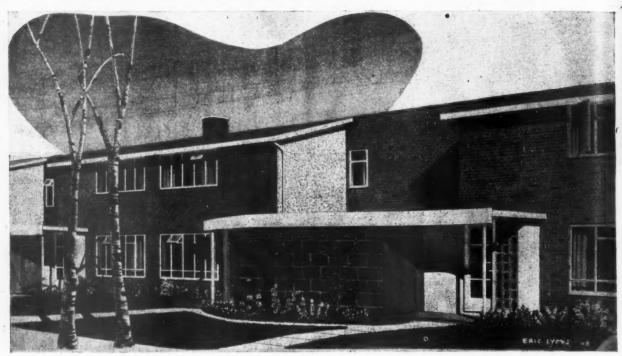
> Right, a diagram of one of the "fingers." Residential areas are shown hatched, industry cross-hatched. The civic centre by the station at the root of the finger includes institutions serving the whole finger.

The proposals outlined above and illustrated in these pages

are regarded by the Committee as preliminary only, designed especially to serve as a basis for discussion with the various local authorities, government departments and other interested bodies, as well as a basis for negotiation for the necessary administrative action. Further investigation into assumptions underlying the planning proposals is being carried out.

The first legislative steps to enable the plan to be accomplished have already been taken. This year the Housing Ministry introduced an addition to the existing Town Planning Act to make possible the collective planning of such areas as the Copenhagen region, and to provide powers to prevent building development in certain areas. Legislation is also proposed to prohibit building in areas where no traffic facilities are recommended under the plan. Various municipal authorities are expected to carry out parts of the scheme as thoroughly as their own planning schemes.





Above, a typical terrace from the service road.

# HOUSING AT WESTON GREEN, SURREY

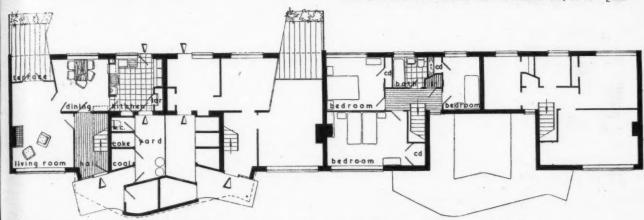
DESIGNED BY ERIC LYONS & G. PAULSON TOWNSEND



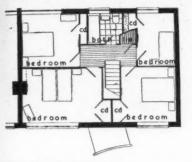
gives a density of 6 houses to the acre.

SITE.—The site is featureless. A railway embankment and row of young oaks stand on the east side. It is suggested that an existing gravel pit be landscaped and used as a children's playground. The roads proposed on the site are very short, consisting of about 440 ft. double carriageway along plots 1 to 11, and about 790 ft. run of single carriageway "off roads" serving the far side of the Greens. A service road is made from the new road to the rear of the flats. Space for allotments is allocated at the south corner of the site. Fourteen lock-up garages are in two groups.

PLAN.—In the 3 and 4-bedroom houses, the living room is arranged across the house with windows to the front and back elevations. The dining room is a small room linking the kitchen and living room. There is a glazed screen between the living room and the covered terrace. The dining room, being small, can be quickly heated and will provide space for an infants' daytime playroom. It can be overlooked from the kitchen via the glazed serving hatch or glazed door, and from the living room. Hot water would be provided from



GROUND AND FIRST FLOOR PLANS OF 3-BEDROOM TERRACE HOUSES (Scale: \(\frac{1}{2} \tilde{\pi} - \pi'0")



road.

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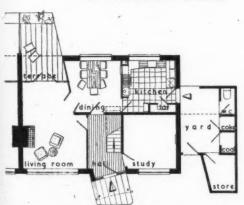
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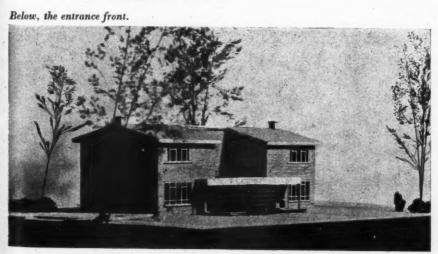
room, heated or an It can en via glazed room.

l from

FIRST FLOOR PLAN
OF 4-BEDROOM HOUSE

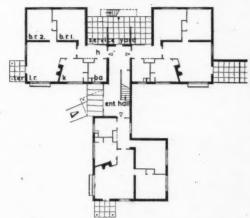


GROUND FLOOR PLAN
OF 4-BEDROOM HOUSE



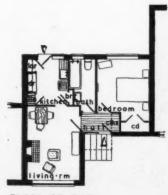


TYPICAL FLAT PLAN (Scale: 1 "-1'0")

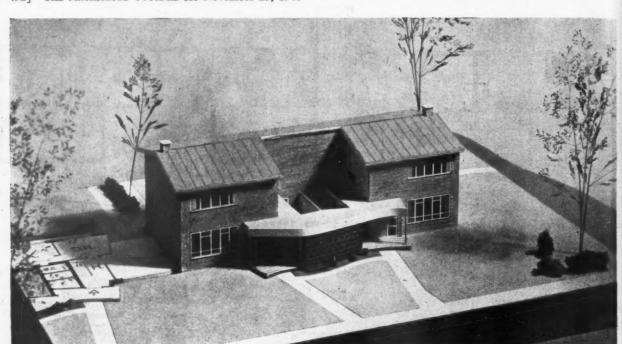


FLAT LAYOUT

(Scale: #"=1'0")



PLAN OF OLD PEOPLE'S BUNGALOWS



The entrance front.

the solid fuel boiler in the kitchen, which is so arranged to allow a grilled opening at the rear of the boiler space to provide heat in the dining room.

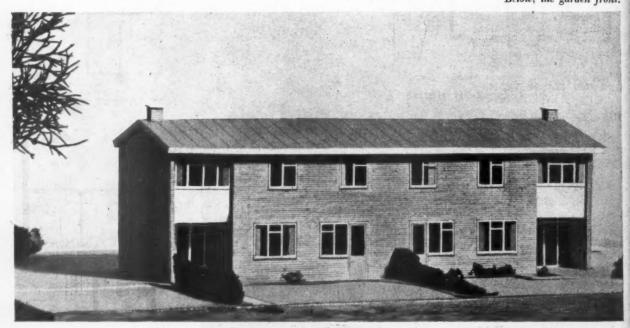
The disadvantages of terrace planning have been avoided. A small kitchen yard is provided on the front of the house and is incorporated into the entrance porch. This arrangement eliminates the need for passages through the block for access to rear gardens.

The flats have been designed so that the kitchen and bathroom are grouped together. Hot water would be provided from a back boiler to the living room which adjoins the kitchen. It is suggested that the disadvantages of the second bedroom being entered from the living room are outweighed by the additional space created by the reduction of circulation space. The entrance hall has access to the service balcony,

which is connected to ground level by a small service stair.

CONSTRUCTION.—For the houses, the structure proposed is 11-in. cavity brick walls with low-pitch copper roofing. The ground floor is in-situ concrete and the first floor would be precast concrete. The flats and old people's bungalows would have concrete flat roofs, but would be otherwise similar in construction.

Below, the garden front.



HOUSING AT WESTON GREEN, SURREY

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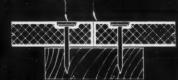
EY



### The Architects' Journal Library of Information Sheets 121. Editor: Cotterell Butler, A.R.I.B.A.

edges of board as shown or cut to form a yee full depth or chamfered or rounded (bullnose) on exposed arrises

boards nailed and stopped



PLAIN BUTT JOINT.

exposed arrises chamfered or rounded

motif of joint may be repeated on either side or a complete moulding worked on



REBATED V JOINT.

as an afternative board is not rebated but face of backing member exposed



OPEN JOINT WITH BUILDING BOARD REBATED.

space to allow for expansion



OPEN JOINT WITH TIMBER FILLET REBATED.

hardwood or metal strip screwed or nailed between boards or through ends of boards with over-size holes



CLOSED JOINT WITH BUILDING BOARD REBATED.

metal section of any profile

screwed between boards or through ends of boards with over-size holes



METAL COVER STRIP.

nailed between boards or through ends of boards with over-size holes



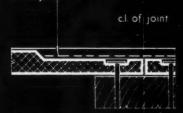
BUILDING BOARD COVER STRIP.

wide central corrugation permits movement of boards without fracture of the strip



ANAGLYPTA COVER STRIP

4" wide strip of galvanised and anneased wire mesh set in gypsum plaster and feathered off at edges



JOINTS UNDER WALL PAPER.

### 15.C1 LLOYD BOARDS: JOINTING, WORKING AND FINISHING

This Sheet illustrates typical jointing methods for Lloyd building boards and describes the finish and manner of working of the various types.

### Jointing Generally

A satisfactory method of concealing joints at the junction of the wall and ceiling is to nail a narrow strip of building board through to the timber grounds. In addition to the examples illustrated joints may be made by overlapping alternate boards or arranging them to give a weatherboard effect.

The drawings given on the face of this Sheet outline types of jointing commonly employed and are selfexplanatory.

### Working

All boards may be sawn and bent to a reasonable curve without steaming or other treatment. Medium Hardboard, Hardboard and Super Hardboard, having no grain, may be planed.

Bituminous board is normally used for expansion joints in concrete and is supplied cut to size.

Hardboards should be exposed for at least 48 hours on site with a free current of air passing between the boards. Alternatively they may be moistened on the matt surface and stacked for 24 hours.

### Natural Finish

Insulation board and Building board: Neutral coloured, lightly textured surface.

Medium Hardboard: One side smooth glazed. One side lightly textured.

Hardboard and Super Hardboard: Faintly mottled. One side smooth glazed. One side lightly textured.

### **Applied Finishes**

Bituminous boards are moisture-proof and will not rot. They may be painted, distempered or plastered if adequately primed with a petrifying liquid and an undercoat appropriate to the finish. Under normal conditions of use exposure to heat does not cause bleeding.

The following finishes apply to Insulation boards, Building boards, Medium, Hard and Super Hardboards.

Distemper: A priming of size and petrifying liquid is desirable.

Oil and cellulose paint: A priming coat of size for internal work and a waterproof primer for external work should always be used. In addition, for external work edges of boards should be sealed with primer and paint before fixing. Two or more coats are then applied as for timber.

Polish and varnish: Especially applicable to Medium, Hard and Super Hardboards.

Stains and sponge stipple: Recommended for Insulation boards where it is essential to maintain sound absorbing qualities.

Wallpapering: Joints should be reinforced (see drawing). One coat of size or other priming should be applied and, when dry, the paper hung with paperhanger's paste.

### **Plastering**

Insulation boards form the most satisfactory base for plasterwork. The surface should be moistened with a damp brush before applying the plaster. Gypsum, not lime plasters should be used.

Skim coat: Reinforce joints with 3 in. to 4 in. wide strips of galvanised and annealed wire mesh set in gypsum plaster in a recess formed by rubbing or scraping. Apply neat gypsum plaster with a float not less than  $\frac{1}{16}$  in. thick.

Two-coat work: Reinforce joints as above. First coat—gypsum plaster and washed coarse sand 1: 1. Second coat—neat gypsum plaster. Finished thickness ½ in.

This Series of Sheets on Lloyd boards covers general data, applications, fixing, thermal and sound insulation.

Compiled from information supplied by:

### Bowaters Building Boards Limited.

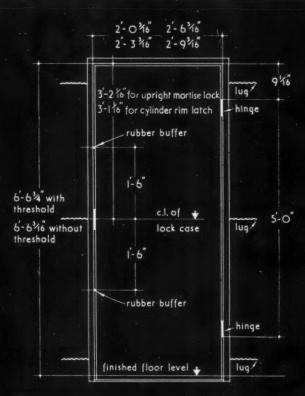
Address: 15, Portman Street, London, W.1. Telephone: Welbeck 8527.

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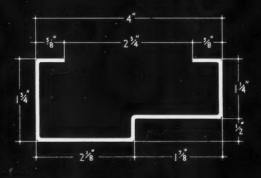




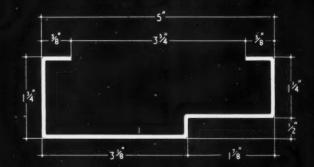
The Architects' Journal Library of Information Sheets 122. Editor: Cotterell Butler, A.R.I.B.A.



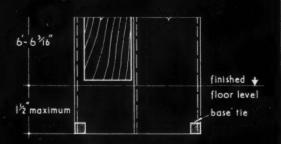
STANDARD TYPES OF INTERNAL FRAMES.



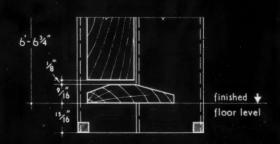
PROFILE A.



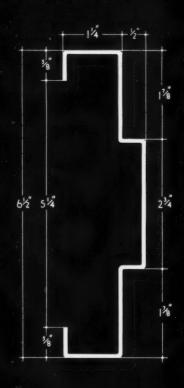
PROFILE B



WITHOUT THRESHOLD.



THRESHOLD: WOOD. (not supplied by manufacturers of door frame)



PROFILE C

STANDARD METAL DOOR FRAMES: INTERNAL.

Compiled from information supplied by the Manufacturers listed on the reverse of this Sheet

### 23.C1 STANDARD METAL DOOR ERAMES: INTERNAL

This Sheet is the first of a series and describes internal standard metal door frames. External door frames are dealt with on Sheet 23.C2 and methods of application for both internal and external frames are described on Sheet 23.C3. The frames are supplied in three standard profiles, A, B and C, and to suit doors of either hand to open inwards or outwards as required.

### Construction

Frames are manufactured from 16 gauge commercial quality mild steel sheet. Two mild steel tie bars are fixed between the lower ends of the jambs. Each frame is either welded or rigidly fixed together by mechanical means and is despatched to the site as one complete unit.

The frames are suitable for doors 6 ft. 6 in. high by 2 ft. 0 in., 2 ft. 3 in., 2 ft. 6 in., and 2 ft. 9 in. wide and up to 2 in. nominal thickness. Overall door dimensions are subject to a tolerance of  $\pm \frac{1}{16}$  in.

### Fittings

The following fittings are supplied with each door

Hinges: Two are supplied welded to the jamb in the positions shown on the face of this Sheet. They are of the five-knuckle type with a removable pin and rustproofed.

Lock strike plates: These are adjustable and can be supplied to suit either rim or mortise locks. Mortar guards are provided behind to ensure space for the latch and lock bolt. Details of the alternative strike plates are given on the face of Sheet 23.C2.

Shock absorbers: Two buffers of rubber or other suitable material are inserted in holes drilled in the rebate at centres not less than 1 ft. 6 in. above and below the centre line of the lock strike plate.

Fixing lugs: There are three adjustable corrugated fixing lugs to each jamb. A detail of the lug itself is shown on the face of Sheet 23.C2.

The frames are despatched with two coats of priming paint or equivalent finish. It is important that the final coats of decorative paint applied shall be suitable for steel and shall take over the priming paint supplied. No paint should be used which contains lithopone, titanium oxide or carbon black. If frames for internal use are required to be rustproof, they shall be finished according to one of the specifications for external frames given on Sheet 23.C2.

When ordering internal metal door frames the following particulars should be supplied:

(a) The code number of the door as given in the table below.

(b) The handing of the door. This is determined by the side at which the door is hinged when standing on the pull side of the door frame.

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b

27

in

P

(c) Type of lock.

(d) Type of door (whether all-flush, panelled, etc.)

(e) Finished total thickness of door. (f) General construction of floor.

### Table of Code Numbers

Code.	Width of Door.	Profile.
DIA 24	 . 2 ft. 0 in.	A
<b>DIA 27</b>	. 2 ft. 3 in.	A
DIA 30	. 2 ft. 6 in.	A
DIA 33	. 2 ft. 9 in.	A
D1B 24	. 2 ft. 0 in.	В
DIB 27	. 2 ft. 3 in.	В
DIB 30	. 2 ft. 6 in.	B
DIB 33	. 2 ft. 9 in.	В
DIC 24	. 2 ft. 0 in.	C
DIC 27	 . 2 ft. 3 in.	C
DIC 30	. 2 ft. 6 in.	0000
DIC 33	. 2 ft. 9 in.	C

Compiled from information supplied by the following man ufac-

Frederick Braby & Co., Ltd.
Address: Fitzroy Works, 352-364 Euston Road,

Telephone: Euston 3456.
Glasgow Office: Petershill Road, Glasgow, N.W.

Telephone: Springburn 5151.

The Crittall Manufacturing Co., Ltd.
Address: Manor Works, Braintree.
Telephone: Braintree 106. London Office: 210 High Holborn, W.C.1. Telephone: Holborn 6612.

Hills Patent Glazing Co., Ltd.
Address: Albion Road, West Bromwich, Staffs.
Telephone: West Bromwich 1025.
London Office: 125 High Holborn, W.C.1.

Telephone: Holborn 8005.

Henry Hope & Sons Ltd.
Address: Smethwick, Birmingham.
Telephone: Smethwick 0891.
London Office: 17 Berners Street, W.1. Telephone: Museum 8412.

Morris Singer Company.
Address: Ferry Lane Works, Forest Road, Walthamstow: E.15.

Telephone: Larkswood 1055.

The Rustproof Metal Window Co., Ltd.
Address: Deva Works, Saltney, Chester.
Telephone: Chester 2468, 3100.
London Office: 6, Duke Street, St. James's, S.W.1.
Telephone: Whitehall 4583.

John Thompson Beacon Windows Ltd. Address: Beacon Works, Ettingshall, Wolverhampton.

Telephone: Bilston 41944.

London Office: Imperial House, Kingsway, W.C.2.

Telephone: Temple Bar 3216.





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

### Enthoven

October 27. At the AA, 34/6 Bed-ord Square, W.C.1. PRESIDENTIAL ford Square, ADDRESS. Mr. Henry Braddock, Vice-President of the AA, was in the chair.

R. E. Enthoven: It is customary on this occasion for the President to unburden his soul, architecturally speaking, to indulge in the contemplation of ultimate causes. Tonight, however, it is not my intention to paraphrase nor even mention "Commodotie, Firmeness and Delight," except to express the rather forlorn hope that my words themselves may have something of these qualities—without that "ponderosity" which Wotton adds is a "natural inclinaqualities-without I feel that a better purpose will be served if I touch on some of our more immediate problems, in what amounts to an overture to the series of papers to be given will lie not so much in their content as in their catalytic function of drawing together here a cross-section of AA members, varying in experience and maturity, to survey I make no apology for thus choosing to tread what may appear to be a rather prosaic path. In the realm of esthetics we have been particularly well served of late: symposium has followed symposium: world-famous architects and critics have discussed in New York What is happening to Modern Architecture, in London Painting, Sculpture and the Architect, in the Architectural Review—for those who can take in what they read printed in 8-point No. 3 Old Face on blue paper—The Search for a New Monumentality. These contributions have been exceedingly valuable, and I have no wish to belittle them: rather it is a tribute to suggest that for the moment we have had our fill, that we are down to our Plimsoll line.

In this connection a great deal always seems to hinge upon the interpretation given

to words. "Functionalism," "Inter-national Style," "Sharawaggi," "Bay Region Style," "spatial enclosure," "the New Empiricism," even "pre-fabrication," all in turn have been flashed on to the screen, to be acclaimed, argued about, abused. The international dictionary for which Bernard Shaw has pleaded in the field of politics is needed no less in that of architecture. Had it been accepted twenty-five years ago that functionalism as a creed was based on satisfying not only mechanical but also human functions, it would not have appeared the strait-jacket that a one-sided interpreta-tion obviously implied, and so aroused such a resistance movement in its day. We are interested in living rather than in machines, about which we have grown from adoles-cence to be less self-conscious, taking them more for granted and less as significant models.

For architects there is always the element of danger that too much pre-natal discussion may give rise to inhibitions. If a designer be made self-consciously uncertain as to whether he is keeping up with or ahead of the latest trends, fearing all the time that he may be following what next month will be frowned on as a cul-de-sac, it will have a the inspiration and concentrated imaginative excitement which precede and go with the creation of vital architectural design. A Bernini does not deliberate on æsthetics in the moment of conceiving a Piazza di S. Pietro, however much he may later study the

proportions and detail.

### ARCHITECTURAL EDUCATION

Our main concern as an Association has always been the improvement of architecture by raising the standard of architectural education. Should we, and if so to what extent, revise our methods in laying foundations for the architectural careers now to be expected? Is our system appropriate to our times? Is it possible for any student to take a subject of the scale favoured by the Ecole des Beaux Arts, to work it out in a contemporary manner with full constructional and technical detail and keep his sanity?

As our horizons widen we tend to chase after more and more factual detail, unaware that in the process we may be cutting ourselves off from deeper realities, from the ability to acquire real knowledge. We are told that the human brain is no bigger today than it was in the ancient Greeks, although we have increased in physical stature. It is not possible in these days to be know-alls, as Benvenuto Cellini claimed in his time to be: even Leonardo da Vinci would be hard put to it to keep pace with modern science. Let us therefore avoid try-ing to keep "au fait" with too much data, turning our brains into compactoms. Take for example the fact that there are some 250 current periodicals dealing broadly with architectural matters. How can we attempt to digest them all? Rather let us rely to some extent upon the service undertaken by the RIBA Library, among so many others, of sifting and sorting, with architectural discrimination, all the information published, and pigeon-holing it for when it is required. This undertaking is one of immense responsibility, and of great importance to the profession. In the school course, our problem is to avoid letting energy and concentration required for mastering the technical requirements of building rob the mind of the genuine appreciation of ideas for which they are the medium. This brings us to the problem of examination. While it is easy to test factual memory, this may well beget what is no more than a shallow facility of expression in the manner of the moment; it is immensely more difficult to assess the capacity for reflection and inde-pendent judgment of the educated mind, for intellectual insight into underlying signi-

PROFESSIONAL QUALIFICATION
From architectural training as we see it, I
pass to professional qualification. We have
recently been sharply reminded in an Interim Report prepared jointly by the Mars
Group and the Architectural Students' Asso-Group and the Architectural Students Asso-ciation, that there are about 12,500 students now training; of the 9,500 who are likely to qualify, allowing for the pre-war rate of wastage, just over one-third, not more, will come from "recognised" schools. With regard to figures, I would say that if the number of effective architects in this country is to be doubled during the next five or six years, it is important that the intake should be related to the bulk of building work likely to be sanctioned by the Ministries concerned, rather than to any esti-

As to the jobs awaiting those completing their training, in private offices there is at the moment the problem of the lack of balance between the salaries expected by newly-trained assistants and the fees received by their employers, in connection with the jobs on which they have worked. It would seem that some measure of de-It would seem that some measure of de-centralization would here be advantageous. Where the volume of work varies, it cannot be economic for these large offices to be staffed to the maximum, nor to be con-tinually taking on and dismissing employees. In many instances the hardcore of the work could well be handled by the permanent staffs and the peak loads transferred to selected private firms under certain control. Some

success has in fact already been achieved along these lines.

EDUCATING THE CLIENT

I have said something about the education of the architect; now what of the client? He is unlikely today to have the basic discrimination and understanding of art that once went with the aristocratic patron, or the enlightenment of the client-guinea pig on whom so many experiments of the modern movement have been carried out. Already a welcome increase of interest by the public in the visual arts is showing itself. Exhibiin the visual arts is showing itself. Exhibitions of industrial art, painting, and sculpture, such as that staged with such imagination in Battersea Park, and civic improvements such as Trafalgar Square, have attracted much attention. The architectural contributions of the lay press, particularly those of *The Times*, and broadcasts of the BBC, although the latter might well give more attention to contemporary architecture. more attention to contemporary architecture, have played their part in creating this awareness. The best way of raising the standard of appreciation is to show the public as much good design as possible. It should not be insulated by the apparitual of the province of be insulted by the erection even temporarily of such things as the flagged pylons around Piccadilly at the time of the Olympic Games.

Today there is a divergence of opinion as to whether we are in a power dive from which we have little hope of pulling out, however wildly we clutch at the controls, or whether we are making good progress along our road: sometimes being halted where bridges are down, forced to go bumping and skidding along tortuous deviations, but on the whole forging ahead. I lean to this latter view. Practice today is admittedly swaddled in restrictions; we have tightened our waists and cannot yet lengthen our skirts. But all our changes are not due to the war; let me quote from one of our Presidential prophets: "Lift up your hearts. The future will be one of bureaucracy, officialdom, forms, papers, warrants, rules, regulations, bye-laws and inventories. regulations, bye-laws and inventories. Farewell to all freedom and prepare to welcome rigorous discipline. Art will be guided from Whitehall. . ." That was said in this room by Mr. Lovett Gill in 1933, fifteen years ago. The symptoms were already there. The day must come, however, when the architect will once again work out his solutions to fit broad terms of reference with regard to requirements and reference with regard to requirements and cost, unhampered by the restrictive, unavoidable technical regulations of today.

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### TECHNICAL SECTION

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

### INFORMATION CENTRE

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### 2.64 planning: general 1947 ACT : DEVELOPMENT

The Town and Country Planning (Development by Local Planning Authorities) Regulations, 1948. Statutory Instruments 1948, No. 2302, made October 14, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 2d.)

Development by Local Authorities and Statutory Undertakers. Circular No. 61, dated October 25, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 4d.)

Two official documents referring to Section 35 of Town and Country Planning Act, 1947, in respect of granting of planning permission for development to be undertaken by local planning authorities and statutory undertakers owning land or wishing to develop land under their authority.

### 2.65 planning: general **DEVELOPMENT CHARGES**

Town and Country Planning Act, 1947: Development Charge on Houses for Members of the Agricultural Population. Circular No. 62, dated October 20, 1948. Ministry of Town and Country Planning. (HMSO, 1948. 1d.)

Document drawing attention to proposed special arrangements regarding development charges on houses for agricultural workers other than built by local housing authorities. Types of cases to which arrangement will Definition of term "agricultural population." Circular not applicable to farm houses other than for smallholders or

### 2.66 planning : genera SURVEY TECHNIQUE

The School Looks Around: A Book for Teachers about Local Surveys. E. Layton and J. Blanco White. (Longmans, Green & Co., 1948. 8s. 6d.)

Excellent textbook on general planning survey technique and methods intended for use in classified order. Headings below. -by school teachers but equally applicable and important to town planning students.

Interpretation of local survey method as social link between schools and outside world, and as new approach to education in citizenship. Choice of subject matter and methods of approach such as extensive, intensive, sample, comparative and statistical. Suggested range of subjects to be investigated as basis for informed attitude on town planning. Outlines of five imaginary surveys suitable for adaptation to local use. Survey techniques and presentation of results. Description of twelve surveys carried out by different schools. Some illustrations. bibliography, and other sources of information are included.

### 3.13 planning: regional and national REPORT ON GRAVEL WORKINGS

Report of the Advisory Committee on Sand and Gravel. Ministry of Town and Country Planning. (HMSO, 1948. 3s. 6d.)

Important, comprehensive report in two parts dealing with problem of sand and gravel extraction in general and with studies related to Greater London Area in particular. Illustrated by maps.

The first part of this document, entitled General Survey, deals with nature, importance, industrial and economic aspects of sand and gravel workings, with common obsand and gravel workings, with common objections to such workings, and with methods by which worked-out land may be reconditioned. Objections to gravel working are mainly concerned with damage to amenity and damage to agriculture. The damage to amenity is partly temporary while the working is in progress, and partly permanent, as demonstrated by the disfigurement and dereliction of the landscape during and after The more serious aspect of the problem, however, is the damage to agricul-ture, especially when it is realised that the best areas for gravel working and market gardening coincide to a large extent. the conflict of interests is not an easy one to resolve, the report suggests that land con-taining gravel soils affording especially favourable opportunities for the vital market garden industry should be reserved in-definitely. Where, however, such reserved land is threatened by disturbance of another kind, such as for instance impending building operations, the reservation for agricul-ture should be terminated early enough for arrangements to be made to work the gravel and recondition the site before it is needed for its subsequent non-agricultural use. parts of a gravel field where working is to be allowed, appropriate measures should be adopted to restore the worked-out site to a condition fit for cultivation. Such measures of "after-treatment" are described in detail. They should be related to the intended we They should be related to the intended use

of the worked-out site, should be decided in advance, and be made the subject of conditions attached to the planning consent which each operator will have to obtain under the 1947 Act before opening a new gravel working.

The second part of the report makes

detailed recommendations for the solution of these general questions in relation to the Greater London area. It investigates the problem as such, describes the geological framework and the gravel reserves in the various areas, examines market trends, future control and land requirements, and makes specific recommendations regarding those areas which should be reserved in-definitely for agricultural purposes, those which are to be allocated for gravel winning. and finally those which, although already earmarked for other planning projects, are workable and might first be subjected to gravel extraction.

It should be noted that the report, in referring to the green belt around London as suggested in Sir Patrick Abercrombie's Greater London Plan, states that while the obvious desirability of preserving such a green belt is appreciated, it is nevertheless felt that the original proposals were made at a time when questions of land use for mineral purposes had not been fully investi-gated. In view of the now more precisely known facts about available supplies of gravel in the vicinity of the Greater London markets, and considering the urgent national need for it, the Advisory Committee have decided not to reject any land for gravel working solely on the ground that it was included in any green belt proposals.

### 10.42 design: building types RAILROAD BUILDINGS

Railroad Buildings. (Architectural Record [USA], Oct., 1948, pp. 122-1946.)

Development of architecture of railway stations in Europe and USA. Many illustrations.

### 10.43 design: building types SILOS

Precast Concrete Silos. (Concrete and Constructional Eng., Oct., 1948, pp. 323-326.)

Illustrations of four silos of which the walls and, in some cases, the bottoms are constructed in precast reinforced concrete.

### 12.27 materials: metals CORROSION

Prevention of Iron and Steel Corrosion, C. Dinsdale (The Louis Cassier Co. Ltd. by Iliffe & Sons Ltd. 1948. 5s.).

Specialist reference book comprising a 65page index of specifications and methods used here and abroad in connection with prevention of corrosion to iron and steel.

### 13.34 materials : timber . TIMBER BRAINS TRUST

Timber Brains Trust. (Journal of the Inst. of Clerks of Works of Gt. Britain Inc. July, Aug., Sept.)

Report of a series of questions and answers on miscellaneous problems concerning timber. Answers given by officers of the Forest Products Research Laboratory and of the Timber Development Association. Interesting general reading.

### 14.19 materials: congrete BUILDING IN COLD WEATHER

Building Technique for Cold Weather. W. Leohard (Building Topics, Oct., 1948. (Pub. by Tretol Limited.)).



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General notes on cold weather precautions for Concrete and Brickwork. 4 pp.

This article outlines the precautions needed for continuing work in cold weather conditions. It is mainly devoted to describing procedure for concrete. The effect of cold weather-as opposed to actual frost-is emweather—as opposed to actual frost—is em-phasised. Precautions described include careful covering with insulating materials and also more drastic measures such as heating the mixing water and the aggregate and also the use of anti-freeze solutions in the mix.

Though there is nothing very new in the information given the article includes a number of practical suggestions and forms a useful brief outline of a subject which might well receive more attention in Eng-

land.

### 14.20 materials: concrete CONCRETE AGGREGATES

The Durability of Concrete Aggregates. H. F. Jackson (Inst. of Clerks of Works of Gt. Britain Inc. July, Aug. pp. 63-66, and

Interesting account of survey of disintegration of bridges and other concrete structures in the states of Wyoming, Oregon, Washington and California. Author deals with types of deterioration, construction variables, air entrainment, modern and old fashioned cements, cement alkali-aggregate reaction, and gives finally recommendations for alterations to existing specifications.

### 14.21 materials: concrete CONCRETE

Making Good Concrete. J. Singleton-Queen (Keystone. Sept., 1948. p. 139.)

General summary of the design and control of concrete mixers. Some useful observations on practical points such as the results of mixing of different types of cement: the choice of aggregate: sand bulking: water cement ratio: tests: curing: and dusting.

A very short report, but better concrete would be made if every architect pinned the page up in the office, and observed the recommendations

### 15.41 materials: applied finishes and treatments MORTAR AND PLASTER

Ready-made Mortar and Plaster and Their Advantages. Alfred B. Searle. (The New House. Sept., 1948. pp. 22-23.)

A plea for the use of ready-made mortar compound of lime putty, and of ready-made lime plasters.

The author argues that the advantages of using "lime putty" for both mortars and plasters may be obtained without the delays and inconvenience of running the lime to a

putty as was done formerly Although there are, undoubtedly, occasions when lime mortar and lime plaster may be

desirable, it is questionable whether the author's view that "lime putty" is necessarily preferable to hydrated lime when properly used, is valid. Nevertheless, the advantages claimed for ready-made mortars and placetar are constinuing. and plaster are convincing, i.e.:

1. Improved quality due to manufacture under more skilfully controlled conditions.

2. Avoidance of irregularities which are Avoidance of irregularities which are unavoidable in hand-mixed products.
 Greater convenience as the mortar or

plaster is delivered as required. 4. Prevention of waste such as inevitably occurs when the material is prepared on the

5. Greater covering power, due to the superior method of preparation at the fac-

6. Complete avoidance of unsoundness when the mortar is made of properly matured lime putty.

7. All the advantages accruing from largescale production with modern methods of control, resulting in a properly prepared fac-tory product as compared with that made by crude and insufficiently controlled methods on the site.

No mention is made of the advantages as regards decoration in using a gypsum plaster instead of a lime plaster, and the question of frost resistance and strength in mortars is barely touched upon.

### 16.39 materials : miscellaneous LIME

The Uses of Lime in Building. (The Southern Lime Association.)

Second edition of brochure on properties and uses of lime with details of preparation and mixes for mortar, plastering and rendering. 31 pp.

The brochure sets out clearly and fairly the advantages and limitations of lime for use in building. It describes the main types, methods of slaking, and discusses suitable mixes and their preparation. A useful outline of the material and its use in building.

### 20.103 construction : complete structures MESS HALL EXTENSION

Mess Hall Extended while Cadets Dine. (Eng. News-Record [USA], Sept. 30, 1948,

One-storey and basement addition of about 74,000 sq. ft. to existing building carried out without interrupting mess functions. Details of construction.

### 20.104 construction: complete structures ALL-ALUMINIUM BRIDGE

All-Aluminium Highway Bridge to Span Saguenay River in Canada. (Civil Eng. [USA], Oct., 1948, pp. 42-3.)

World's first all-aluminium road bridge: arch of 290 ft. span, 47 ft. 6 in. rise with five approach spans on both ends. Weight of structure half of the estimated weight in

### 23.82 heating and ventilation WARM AIR PANELS

Panel Heating the Warm Air Way. Taylor (Sanitary Eng. (Canada), Oct. 15, 1948.)

Plans and description of warm air ceiling panel heating to small house. U value and fuel consumption given and claim made for better comfort with less fuel used than with usual warm air heating.

### 23.83 heating and ventilation

### GAS BOILERS

Gas Fired Boilers for Central Heating by Hot Water. Draft BS C. of P. 332.303:1948. (British Standards Institution, 3s.)

Selection and installation of gas-fired boilers for central heating and hot water. 11 diagrams.

The code deals with the installation of gasboilers used for the space-heating of nred boilers used for the space-heating or buildings by hot water and for the supply of domestic hot water if required. It is complementary to Code 341, "Central Heating with Steam or Hot Water," in course of preparation, and to Code 342, "Centralised Domestic Hot Water Service." The code contains matter of interest not only to the heating engineer but to the archi-

only to the heating engineer but to the architect, builder and contractor. The section dealing with design includes detailed information on siting, fire precautions, the selection of boilers of appropriate rating,

domestic hot water supply combined with central heating, gas supply and connections and various types of temperature control. A list of relevant BS is given and the code concludes with notes on work on and off site, inspection, testing, and maintenance.

### 23.84 heating and ventilation

### FLUES

Flues for Domestic Appliances Burning Solid Fuel. Draft BS C. of P. 131.101:1948. (British Standards Institution, 5s.)

Comprehensive study of requirements, design and methods of construction in a variety of materials. An important and valuable aid to sound building.

This is a lengthy code of 47 pages plus numerous diagrams. It deals with the requirements for all types of solid-fuel domes-tic appliances and with most types of material now in use for flues. It is too lengthy to summarise but it can be said that while in general it adheres to good traditional practice for traditional materials, at the same time it clears up many points on which there has been a good deal of con-fused thinking. It also deals fully with flues constructed in a less traditional manner and with the special requirements for the newer types of slow combustion appliance.

It is a most valuable exposition of the subject for students and in addition gives a number of recommendations which those with more experience may well find helpful in improving their work and in reducing the by no means uncommon occurrence of a flue which in one way or another proves un-

satisfactory.

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

2967 ACCESS TO PROPERTY

we are carrying out repairs to a property, the side wall of which abuts the garden of an adjoining house. The level of the garden is 4 ft, above the existing floor level, and if there is a vertical damp-course it is defective and wants renewing. A sanitary notice concerning the resulting dampness has been issued by the local authority. Unfortunately there has been friction in the past between the two owners over another matter, which it seems impossible to resolve. Owing to this, the owner of the garden refuses to allow temporary access for the repairs to be carried out even though a generous con-sideration has been offered. Can you advise us of any means by which access could be obtained?

Under section 92 of the Public Health Act, 1936, the dampness appears to be a "statutory nuisance." Under section 95 where a nuisance order has not been complied with, the local authority can abate the nuisance, and under section 96 recover the reasonable cost from the person liable for the cost.

It is suggested that the difficulty of com-plying with the sanitary notice be explained to the local authority and that they be asked to carry out the required work, the person liable for the cost giving an under-taking to pay the local authority's reasonable costs.

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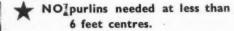
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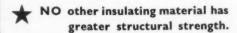
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This feature covers both the production and marketing of new materials and designs of equipment, as well as the general trend of developments within the building industry.

### THE INDUSTRY

### STANDARDS FOR PLASTICS

The British Plastics Federation has just announced a new certification mark scheme to be applied to certain moulding powders and the finished products made from them. The certification mark is a circle with the letters BS in the centre, BPF on the left and code letters and numbers on the right which refer to the manufacturer and the specification concerned, the mark being intended to show purchasers that both the material and the product conform to a specification laid down by an authority other than the producer.

The scheme has been developed by the

The scheme has been developed by the BPF in conjunction with the British Standards Institution, but at present the mark is applicable only to moulding powders made from phenol- and urea-formaldehyde resins and certain mouldings made from them. BSS have been published for plastic draining boards, lavatory seats and picnic-type tableware, and licences have already been granted to a number of firms for the moulding of these articles from certified materials and in accordance with the relevant specifications. These goods will bear the certification mark. Any firm wishing to make these goods must apply for a licence and agree to undertake certain routine tests to satisfy BSI.

The whole scheme amounts to a very adequate guarantee of quality and it is to be hoped that it will in due course be extended beyond the rather limited range of goods to which it is now applicable. For the present it should be remembered that goods such as sockets and plugs bearing the BSI mark will be to dimensional standards and that while any parts made of plastic will be to an adequate electrical standard, they will not necessarily conform to the new plastic specification. It is reasonable to suppose that ultimately the BSI mark on plastic goods of any kind will indicate that the material is to the specification of the British Plastics Federation.

### FLUORESCENT LAMP LENGTHS

From January 1, two additions are to be made to the standard range of fluorescent lamps, intended for shops and offices where greater length may be an advantage. The length of both types will be 8 ft. and they will be 1 in. or 1½ in. diameter, rated at 70 watts and 135 watts and in "natural" colour. They will be produced by all ELMA members, but no details are yet available about price. (The Electric Lamp Manufacturers' Association, 2, Savoy Hill. London, W.C.2.)

### SHOP LIGHTING

e d

2738)

The illustration on this page shows an interesting lighting installation in the Bond Street shoe shop of Russell & Bromley, designed by Mr. Lionel Brett in association with Arcon.

The main lighting features of the shop are three chandeliers, chosen by the architects as part of the decoration scheme. These alone could not provide enough illumination consequently additional lighting was required, but it was essential that this should be unobtrusive so as not to clash with the design of the showrooms. This has been achieved by installing 80 and 40 watt fluorescent lamps in reflectors mounted either in special cornices or along the top of stock fixtures. Adequate general illumination is thus provided, which also serves to brighten the ceiling and counteract the glare of the naked candle lamps in the chandeliers. Supplementary direct lighting from recessed ceiling spots (not shown in the photograph) has been included to introduce some highlights to relieve the comparatively flat effect produced by indirect lighting. These spots employ a 36-watt 12-volt car headlight lamp behind a 3 in. lens. In other parts of the store there are some louvred ceiling fittings containing 80-watt fluorescent lamps.

The display table in the centre of the photograph has sides made of plane mirrors inclined so that customers can readily see the shoes they are having fitted. Fluorescent lamps, screened from direct view and having a complete cut-off at 18 in. from the floor, are fitted beneath the mirrors to floodlight the shoes. (B.T.H. Lighting Department, The Bridle Path, Watford, Herts.)

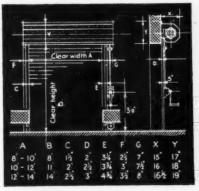
### LAGGING HOT WATER CYLINDERS

In an unlagged hot water system in the average small house, something like four fifths of the heat generated by the boiler may be lost through uninsulated surfaces. A good deal of the heat admittedly helps to warm the house, and is therefore not completely lost, but almost any form of lagging will pay for itself in a comparatively short time.

A sectional form of lagging known as Eeto is suitable for cylinders and rectangular tanks of all sizes, and is very easy to fix. In the ordinary cylinder with the hot water outlet at the top the segments are hooked to a ring passed round the outlet pipe, and after all the segments have been hooked on, the assembled jacket is held in close contact with the cylinder by stainless steel straps. As the material is pliable, and made in separate sections, existing pipe connections lead to little difficulty.

lead to little difficulty.

For pipe insulation the lagging consists of hair felt half an inch thick fixed with water-proof cement to a covering fabric. This insulation is supplied in two forms, 3 ft.



Plans, elevations and sections of crank-handle operated shutters (spur and bevel geared); and coil diameters and working clearances. (E. Pollard and Co. Ltd.)

lengths for use with pipes fixed near to walls, and in 4 in, wide strips for winding spirally round easily accessible pipes. (P. Higson & Co., River Street, Bolton, Lancs.)

### ROLLING GRILLES

Pollard & Co. have just issued a booklet dealing with Haskins Portcullis grilles which are available in a number of different patterns, chevron, brickbond, vee and diamond. These grilles are designed to protect any opening and at the same time provide ventilation and full visibility, so that they are suitable for factories or garages, or for shop windows. Made normally from mild steel tube, they can also be supplied in bronze, aluminium and other non-ferrous metals. Operation can be by chain, winding handle, or by push button electric control. For access after the grille is down, wicket

For access after the grille is down, wicket gates can be provided in two types. In the simplest type the gate is entirely removable. The stiles are placed in position on each side of the opening in the grille curtain and held in position by a bar at the top. The gate is then hooked on to butts attached to one of the stiles which enables it to swing into the opening provided. The gate panel is constructed of Portcullis rails and links which line up with the curtain rails. This type of



Lighting installation in the Bond Street shoe shop of Russell and Bromley, designed by Lionel Brett in association with Arcon. (B.T.H. Lighting Department.)

gate can be used with the opening anywhere in the grille, and the second gate is hung in a separate swinging frame which is hinged on the guide at the side of the grille. When the curtain is pulled down, the swinging frame, complete with gate, is pushed into the opening and bolted into position. The side-hung pattern is strongly recommended as it dispenses with the necessity of removing and replacing a portable gate and the various component every time the grille is raised and lowered.

The booklet clearly sets out the essential dimensions for the various sizes of grille and different types of winding mechanism. (E. Pollard & Co. Ltd., Gnome House, Blackhorse Lane, Walthamstow, London.

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### Announcements

Mr. Stephen George, Senior Architectural Assistant, Surveyor's Department, County Borough of Barrow-in-Furness, has now taken up the appointment of Chief Assistant Architects' Department, Mr. George Architects' Department, Mr. George obtained his degree of Bachelor of Archi-

obtained his degree of pacticals tecture at Liverpool University.
Lindsey Webster Alexander Thompson Drake, Russell Thomas Francis Skinner, Berthold Lubetkin and Denys Lasdun. formerly practising together as "Tecton," at 29, Sackville Street, Piccadilly, London, W.1, give notice that they have dissolved partnership as from November 8, 1948.

Mr. T. A. Collins, A.R.I.B.A., has now taken over the duties of County Architect of Leicestershire. His address is County Offices, Grey Friars, Leicester.

Messrs. W. H. Saunders & Son, Architects and Surveyors of Southearters and Posts.

and Surveyors, of Southampton and Portsmouth, announce that permanent accommohas now been obtained for their

Channel Islands' Office. The Branch operates from 4, Library Place, St. Helier, Jersey, C.I., Tel.: Central 2942, where the firm will be pleased to receive trade catalogues and publications.

Mr. T. H. Y. Bonsey, D.F.H, A.M.I.E.E., of the British Aluminium Co. Ltd.. who was seconded to the Control Commission for Germany in 1945, and was appointed Chief Control Officer in Metallurgy Non-Ferrous Control Officer in Metallurgy Non-Ferrous Division, has relinquished his appointment in order to became Sales Manager to the Aluminium Wire & Cable Co. Ltd., of Swansea and London. Mr. C. H. E. Ridpath, B.Sc., A.M.I.E.E., A.M.I.MECH.F., who has been in charge of the British Aluminium Company's Electrical Sales Development Section for a number of years and has been largely responsible for the development of the use of steel-cored aluminium overhead conductors and fittings, has also joined the new company as Deputy Sales Manager. Due to the expansion of their business, the

Stamford Trading Co. Ltd. are moving from their present address at Stamford House, 24/26, Kingsland Road, E.2, to new premises at 138, Kingsland Road. The new premises will be used for storage and ware-

still at Stamford House.

The Trussed Concrete Steel Co. Ltd., structural engineers and reinforced concrete specialists, have moved to Truscon House, 37-41, Lower Marsh, London, S.E. 1. Tekphone number: Waterloo 6922 (22 lines); telegraphic address: Truscon, Lamb.

### Correction

The design of the chair illustrated on page 321 of our issue for November 4 was attributed to Venesta Ltd. This is incorrect. The chair was designed by Mr. E. Pollak,

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

### ENOUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal."

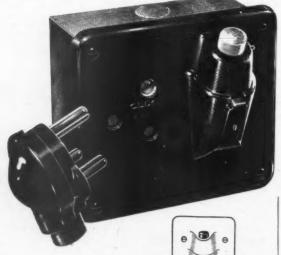
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BLOCK LETTERS, Please

A.J. 25.11.48



MODELS Horizontal Flush (above) Vertical Flush (right) Horizontal Surface

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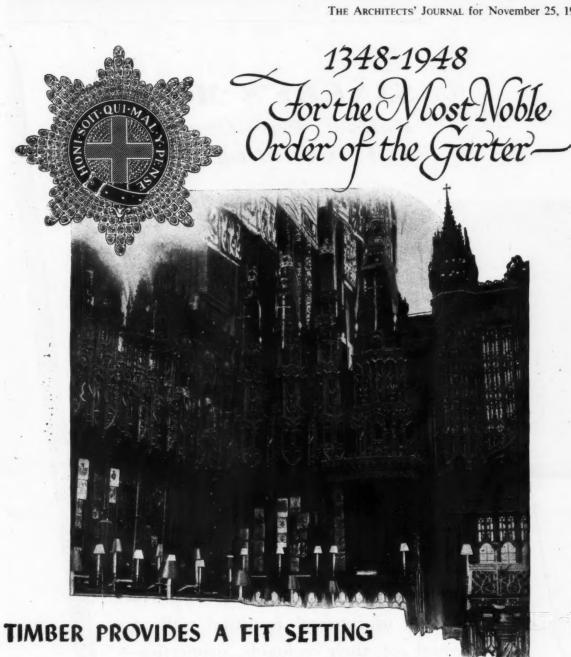
One of the new designs, described in the Architects' Classifile, Fold No. 89, comprising switches, switch socket outlets and a new 30-amp. cool control unit. Write for the illustrated CLIX Catalogue sent post free on reque



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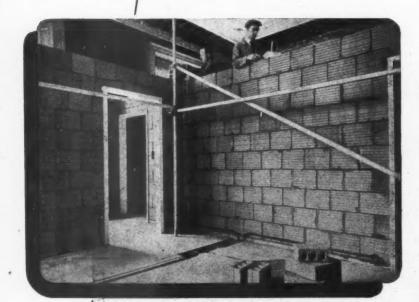
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5543

TELEGRAMS & CABLES

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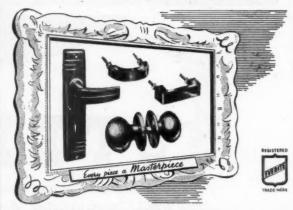
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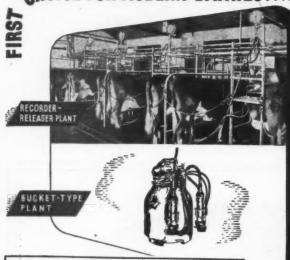
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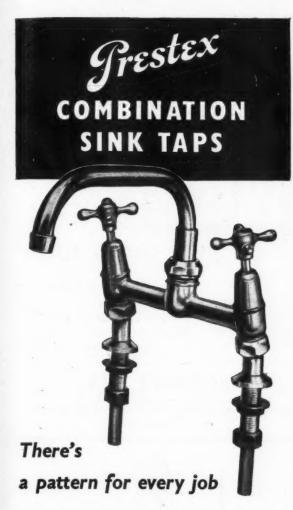


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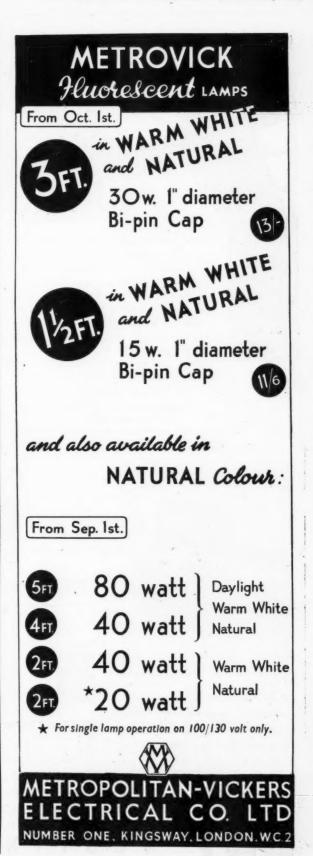


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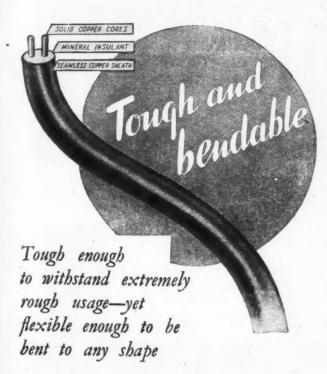
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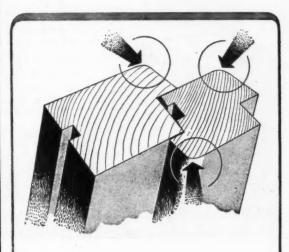
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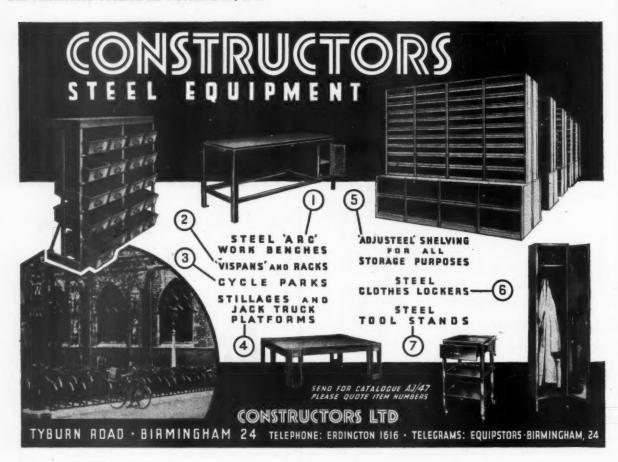




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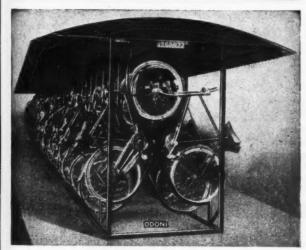
This is the first comprehensive planner's reference book. It contains in a single easily handled volume a mass of detailed and thoroughly indexed information which has hitherto been obtainable only by consulting a large number of separate publications. Over 270 excerpts from, or summaries of, published books, reports, tables, pamphlets and articles, explain the aims, policy and legislative and factual background of planning in general. It gives quickly the answers to the multitude of questions constantly confronting the planning officer and all those concerned with town and country planning.

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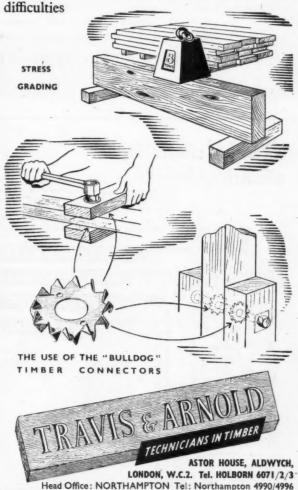
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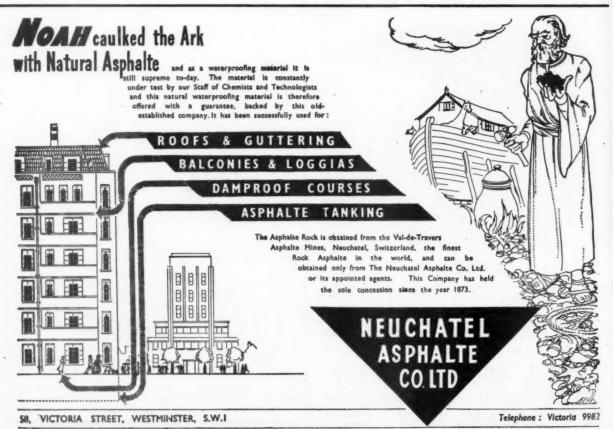
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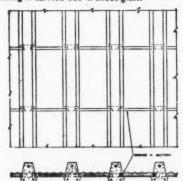


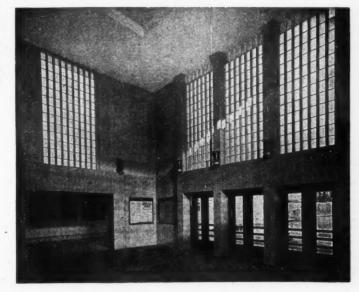
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paper.
Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address

given above.

Available only to applicants excepted from the Control of Engagement Order, 1947.

Public and Official Announcements

The Incorporation Association of Architects and Surveyors maintains a register of qualified architects and surveyors (including assistants) requiring posts, and invites applications from public authorities and private practitioners having staff vacancies. Address: Employment Roister, When Park, Whytelape. Tel.: Uplands 0935. 991

LONDON COUNTY COUNCIL.
HOUSING AND VALUATION DEPARTMENT.
ARCHITECTURAL ASSISTANTS. Applications are invited for positions of Architectural
Assistant, at salaries of up to £580 a year. 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 Superannuation contributions at the rate of 6 per cent.
of salary.

annuation contributions at the rate of 6 per centof salary.
Successful candidates will be required to undertake the design, layout, and preparation of working drawings for housing schemes (cottages and
nutti-storey flasts), and will be employed in the
Housing Architect's division.
Forms of application may be obtained from
the Director of Housing, The County Hall, Westminster Bridge, S.E.I. (stamped addressed
foolscap envelope required). Canvassing disqualifies. (570).

NEWCASTLE-UPON-TYNE REGIONAL.

foolscap envelope required). Canvassing disqualifies. (870).

NEWCASTLE-UPON-TYNE REGIONAL HOSPITAL BOARD.

Applications are invited for the under-mentioned appointment on the permanent staff of the Architect to the Board.

ARCHITECTURAL ASSISTANT.

Salary will be in accordance with Grade II of the A.P.T. Division of the National Scale, i.e., 2420-2456, consolidated.

Preference will be given to candidates who have had practical experience and passed the Intermediate examination of the R.I.B.A.

The appointment will be subject to the National Health Service (Superannuation) Regulations. 1947-8. The successful candidate will be required to pass a medical examination.

Applicants should state: (1) name and full addrass; (2) age and whether married; (3) degrees and professional qualifications; (4) experience; (5) present appointment and salary; (6) war service; (7) date available if appointed; (8) names and addresses of three referees.

Applications are to be received not later than 1st December, 1948, and are to be addressed to the Architect to the Board, "Dunira," Osborne Road, Newcastle-upon-Tyne, 2. 850

Road, Newcastle-upon-Tyne, 2. 850

WEST SUFFOLK COUNTY COUNCIL.
Applications are invited for the appointment of QUANTITY SURVEYOR, in the County Architect's Department, on A.P.T., Grade VI.VII (£595-£710), position on scale according to qualifications.

Travelling allowance in accordance with the County Scale.
Candidates should have experience in the preparation of Bills of Quantities, estimates and valuations, and settlement of accounts.

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

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

Forms of application may be obtained from the andersigned, by whom applications accompanied by three recent testimonials, should be received not later than Tuesday, 7th December, 1948.

L. G. H. MUNNEY.

Shire Hall, Bury St. Edmunds.

45

TWO PLANNING ASSISTANTS are required

Shire Hall, Bury St. Edmunds.

TWO PLANNING ASSISTANTS are required by the County Planning Department, for temporary work on the development plan for Cambridge under the direction of the Council's Consultant, Professor W. G. Holford. The work will be mainly concerned with layout and form of buildings in the central area and elsewhere. Preference will be given to candidates who are members both of the T.P.I. and R.I.B.A.

One appointment will be made to each of Grades A.P.T., III. and A.P.T., IV, of the National Scale of Salaries (A.P.T., III, 2460-2495 p.a., and will be subject to the passing of a medical examination.

tion.

Although the work is expected to take at least eighteen months, offers of temporary service (minimum 6 months) will be favourably considered.

sidered.
Applications, stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should reach the undersigned not later than the first post on Monday, 6th December, 1948.
CHARLES PHYTHIAN.
Clerk of the County Council.
Shire Hall, Castle Hill, Cambridge.

BOROUGH OF HORNSEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL

Applications are invited for the following temporary appointment:—

Architectural Assistant, Grade VI (A.P.T. Division of the National Scale), at a salary of £595-£660 per annum, plus London weighting allowance of £39 per annum.

Candidates should preferably be Associate Members of the Royal Institute of British Architects, and experienced in the design of contemporary buildings.

Applications, stating age, present and previous appointments, technical training, qualifications, etc., together with the names of three referees, must be delivered to Mr. J. H. Melville Richards.

A.M.I.C.E., M.I.Mune., Borough Engineer and Surveyor, Hornsey Town Hall, N.8, not later than the 2nd December, 1948.

Canvassing, either directly or indirectly, will disqualify.

H. BEDALE,

Town Clerk.

H. BEDALE, Town Clerk.

Town Hall, Hornsey, N.S.

19th November, 1948.

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPT.

Applications invited for following Temporary and Permanent Staff appointments:

Temporary:

Temporary:
(a) SENIOR ASSISTANT
A.P.T., Grade VI (£595-£660). ARCHITECTS.

A.P.T., Grade VI (£595-£660).

Permanent:
(b) SENIOB ASSISTANT ARCHITECTS.

A.P.T., Grade V (£520-£570).

Applicants should hold appropriate professional qualifications, and have good general experience in design and construction; experience in Local Authority office work will be an advantage.

Permanent appointments subject to provisions of Local Government Applicants required to pass medical examination. All appointments terminable by one month's notice in writing on either side.

Housing accommodation provided if necessary, at an economic rent.

Applications, indicating specific appointment applied for, stating age, training, qualifications. Applications, indicating specific appointment applied for, stating age, training, qualifications. experience, present appointment and salary, and the names of two referees, should be delivered to the undersigned not later than Menday, 29th November. J. Nelson Meredith, F.R.I.B.A. City Architect, Eagle House, Colston Avenue, Bristol, 1.

Architect, Eagle House, Colston Avenue, Bristol, 1.

COUNTY BOROUGH OF HALIFAX.

APPOINTMENT OF ASSISTANT ARCHITECTS (EDUCATION).

Applications are invited for the following appointments in the A.P.T. Division of the National Scale:—
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ASSISTANT ARCHITECTS (TWO). Grade V. £501. rising to £570 per annum.
(2) ASSISTANT ARCHITECT. Grade IV. £480, rising to £525 per annum.
(3) ASSISTANT ARCHITECT. Grade III. £450. rising to £495 per annum.
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R. DE Z. HALL. Town Clerk.

Town Hall, Halifax. 10th November, 1948.

Town Hall, Halifax.

10th November. 1948.

BARNET URBAN DISTRICT COUNCIL.

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

10th SENTION.

10th SENTION.

10th ARCHITECTURAL ASSISTANT.

10th Grade A P.T. V. 6520-6570 per annum, plus the apprendix London weighting.

10th Annual Should have sound experience of housing work, the preparation of working drawings, and the supervision of working drawings, and the supervision of working drawings, and the supervision of working drawings.

10th JINNOR ARCHITECTURAL ASSISTANT.

10th JINNOR ARCHITECTURAL ASSISTANT.

10th Grade A P.T. I. 2300-6455 per annum, plus the appropriate London weighting.

10th Applicants should be of Inter. R.I.B.A.

10th Applicants should be of Inter. R.I.B.A.

10th Applicants should be subject to one month's notice on either side and to the provisions of the Local Government Superannantion Act. 1937.

11th Successful candidates will be required to pass a medical examination.

10th No housing accommodation can be offered by the Council.

10th Applications, stating age, qualifications and particulars of present and previous appointments, together with copies of three revent testimonials.

10th Applications.

10th No housing accommodation can be offered by the Council.

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10th No housing accommodation can be offered by the Council.

ALFRED S. MAYS.

Clerk of the Council.

Sth October, 1948.

HEMEL HEMPSTEAD DEVELOPMENT
CORPORATION.
ARCHITECT'S DEPARTMENT.
Applications are invited for the appointment of
ASSISTANT ARCHITECTS, at a salary in the
scale £400-£252 p.a.
Applicants must have reached Intermediate
standard R.I.B.A., and have a sound knowledge of
planning and design of buildings.
The persons appointed will be required to work
at the Development Corporation's offices at Hemel
Hempstead, and to reside in the district. The
posts will be subject to the Development Corporation's staff rules and conditions of service
and to one month's notice on either side. Contributory superannuation (with the choice of entering or continuing in a fund under the Local
Government Superannuation Acts, 1937) will be
provided.

or continuing in a fund under the Local Government Superannuation Acts, 1937) will be provided.

Applications, giving particulars of age, qualifications, experience, present and past appointments, and the names of three persons to whom reference can be made, should be endorsed "Assistant Architects," and addressed to reach me not later than 4th December, 1948.

W. O. HART,

General Manager.

Westbrook Hay, Hemel Hempstead, Herts. 857

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

CHIEF OR SECTIONAL ARCHITECTS

(2760×252-2910).

Applications are invited for the appointment of Chief or Sectional Architects (2760×252-2910). Candidates should be Associates of the R.I.B.A., and must have had a thorough training in architecture and be experienced in the carrying out of modern building works.

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

Details of these appointments and form of application may be obtained on application by letter to the undersigned. Applications must reach this office not later than the 1st December, 1948.

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

County Architect.

County Hall, Wakefield.

LONDON COUNTY COUNCIL.

VACANCIES FOR QUANTITY SURVEYORS
AND ASSISTANTS IN ARCHITECT'S
DEPARTMENT.

SURVEYOR. Grade III, £550×£25-£700 a

SURVEYOR. Grade III, £550×£25-£700 a year.

TEMPORARY TECHNICAL ASSISTANT:

(a) £449×£20-£580 a year.

(b) Up to 167s, 6d. a week.

Commencing rates according to qualifications and experience.

Candidates for Grade III positions should be associates of the Royal Institution of Chartered Surveyors, and be experienced in abstracting and billing, estimating, interim valuations for payments on account, measuring, adjusting and agreeing final accounts, "taking off," and the preparation of Bills of Quantities. Other candidates should also have a working knowledge of these matters.

successful candidates will be superannuable, and will be considered for permanent appointment as vacancies arise.

Application forms from Architect (Q), County Hall, Westminster Bridge, S.E.1, enclosing stamped addressed foolscap envelope. Canvassing disqualifics. (2091)

stamped addressed foolscap envelope. Canvassing disqualifies. (2091)

SOMERSET COUNTY COUNCIL.

Applications are invited for the appointment of Temporary CLERKS OF WORKS, at a salary at the rate of £8 8s. per week inclusive, in connection with the erection of new Schools in Yeovil and/or Bridgwater. The successful applicants will be required to reside in the district.

Applicants must have a thorough knowledge of all types of building construction and of all building trades, and must be fully competent to perform the duties of a Clerk of Works.

Applications, stating age, experience, qualifications, and length of time required to take up appointment, together with copies of three testimonials, should be sent to the undersigned not later than the 29th November. 1948.

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

County Architect.

Park Street, Taunton. 15th November, 1948

Park Street, Taunton.

15th November, 1948.

SOMERSET COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANTS in the above Department. The posts will be in Grade IV of the A.P. and T. Division of the National Scale of Salaries, viz., 480 per annum, rising to £525 per annum. The appointments will be subject to the Council's Conditions of Service in force from time to time and to the provisions of the Local Government Superannuation Act, 1937. The selected candidates will be required to pass a medical examination. Candidates must have passed the final examination of the R.I.B.A. and preferably have had experience in Architectural work undertaken by a Local Authority.

Applications, giving full details of age, qualifications and experience, should be forwarded, together with copies of three testimonials, to reach the undersigned by the 29th November. 1948. Candidates must disclose in writing if they are related to any member or senior official of the Council. Canvassing members of the Council either directly or indirectly will disqualify.

R. O. HARRIS, F.R.I.R.A.

County Architect.

15th November, 1948.

Park Street, Taunton. 15th November, 1948.

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LANCASHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following
appointment on the permanent staff:
SENIOR ASSISTANT LAND SURVEYORS
AND VALUERS. Grade VI. Salary £595-£660
per annum. Candidates must be Associates of the
Royal Institution of Chartered Surveyors (Valuation Division).

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Boyal Institution of Chartered Surveyors (valuation Division).

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

Applications should be forwarded on the forms to be obtained from the County Architect, G. Noel Hill, F.R.I.B.A., M.T.P.I., County Offices, Preston, to whom they should be returned, accompanied by copies of three recent testimonials, to arrive not later than Saturday, 11th December.

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

County Offices, Preston.

County Offices, Preston. 16th November, 1948.

COUNTY COUNCIL OF THE WEST RIDING
OF YORKSHIRE.
COUNTY PLANNING DEPARTMENT.
Applications are invited for the following permanent appointments to the staff of the County
Planning Department:
(a) SENIOR PLANNING ASSISTANTS (salary
with \$659.295-2710 per annum.

(a) SENIOR PLANNING ASSISTANTS (salary scale £595×£25—£710 per annum).
Applicants should be Corporate Members of the Town Planning Institute or possess a recognized qualification in Civil Engineering, Surveying or Architecture, and have had considerable experience in a Planning Office.
(b) PLANNING ASSISTANTS (salary scale £50×£20—£570 per annum).
Applicants should have received training in Town Planning, Civil Engineering, Surveying or Architecture, should have had previous planning experience, and preferably be Corporate Members of one of the appropriate Institutions for the professions named. Consideration will, however, be given to applicants who possess a University begree in Economics, Geography, or allied subjects.

subjects.
(c) JUNIOR PLANNING ASSISTANTS (salary

subjects.
(c) JUNIOR PLANNING ASSISTANTS (salary scale £390 × £15—£465 per annum).
Applicants should have passed the Intermediate examination of one of the recognized Professional Institutions and have had training and experience in Engineering, Surveying or Architecture.
Freference will be given to applicants with a knowledge of town and country planning.
Successful applicants will be assigned for duties at one of the County Area Planning Offices, and applicants may express a preference for Harrogate, Huddersfield, Pontefract or Doncaster in respect of appointments (a) Harrogate, Huddersfield or Pontefract in respect of appointments (b), and Pontefract or Doncaster in respect of appointments (c).
All the appointments will be subject to the provisions of the Local Government Superannuation Act, 1937, and successful applicants will be required to pass a medical examination.
Applications, stating age, qualifications and experience, and accompanied by copies of two recent testimonials, should be received by the undersigned not later than the 4th day of December, 1946.

ARTHUR BATES,
County Planning Office. 7, Bond Street,
Wakefield.

County Planning Office. 7, Bond Street,

Wakefield.

FI.INTSHIRE COUNTY COUNCIL.

COUNTY PLANNING DEPARTMENT.

Applications are invited for the following appointments:

PLANNING ASSISTANT (ARCHITECTIBAL), at a salary in accordance with Grade A.P.T. V (£520. rising to £570 per annum. consolidated). Applicants should have had considerable experience, including the control of development, in the Planning Office of a local authority or joint planning committee, and particularly on the architectural side of planning. The passession of a recognized architectural qualification and Corporate Mombership of the Town Planning Institute is desirable. A car is essential in connection with the appointment, for which an allowance will be made in accordance with the Mational Joint Council's scale.

PLANNING ASSISTANTS (two vacancies), at a salary in accordance with Grade A.P.T. II (£420. rising to £465 per annum, consolidated). Applicants should have had experience in the work of the Planning Office of a local authority or joint planning committee, including the preparation of planning schemes and the centrol of development. A car, or motor cycle. is desirable in cenne-tion with the appointments, for which an allowance will be made in accordance with the National Joint Council's scale.

All the appointments will be subject to (a) the National Scheme of Conditions of Service, as medified by the County Council; (b) the Local Government Superannuation Act, 1937, and (c) the Passing satisfactority of a medical examination.

Applications, on forms to be obtained from the indersigned, accompanied by copy of one recent

Applications will be considered from registered disabled persons.

Applications, on forms to be obtained from the undersized, accompanied by copy of one recent testimonial and the names and addresses of two other persons to whom direct reference can be made, are to be submitted to me not later than the 6th December. 1948.

W. HUGH JONES,

Clerk of the County Council.

County Buildings, Modd.

4th November, 1948.

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COUNTY BOROUGH OF EAST HAM.
APPOINTMENT OF TOWN PLANNING
OFFICERS.
Applications are invited for the following permanent appointments in the Town Planning
Section of the Borough Engineer's Department:—
(a) ONE SENIOR ASSISTANT PLANNING
OFFICER (Grade A.P.T., V.). Salary £520-£570
per annum

OFFICER (Grade A.P.T., 11).

(b) ONE ASSISTANT PLANNING OFFICER (Grade A.P.T., 111). Salary £450-£495 per annum. (c) THREE JUNIOR ASSISTANT PLANNING OFFICERS (Grade A.P.T., 1). Salary £390-£435

OFFICERS (Grade A.P.T., 1). Salary £390.£435 per annum.

London weighting is paid in addition, and salaries in excess of the minima of the grade may be paid according to qualifications and experience. Candidates for the appointment (a) must be Associate Members of the Town Planning Institute or hold an equivalent qualification, and have had a general experience of planning work; experience in a County Borough would be an advantage.

advantage.
Candidates for the appointments (b) and (c) must be competent draughtsmen and have general knowledge and experience of Town Planning work. The persons appointed will be required to work under the direction of the Chief Assistant Planning Officer.
Housing accommodation is not provided, but the Council will be prepared to consider applications for subsistence allowances in appropriate cases from persons appointed who may be unable to obtain suitable accommodation.
Application forms obtainable from the undersigned must be returned, together with copies of three recent testimonials, not later than 6th December, 1948.

H. A. EDWARDS,

H. A. EDWARDS, Town Clerk.

Town Hall, East Ham, E.6.

November, 1948.

HAMPSHIRE COUNTY COUNCIL.
Applications are invited for the following appointments on the established staff of the County Architect's Department:—

(a) A PRINCIPAL ASSISTANT ARCHITECT.
Grade VIII. Salary £685 £25 to £760 per annum.

(b) An ASSISTANT MAINTENANCE SURVEYOR. Grade II. Salary £420×£15 to £465 per annum.

Grade VIII. Salary 2668×225 to 2760 per annum.

(b) An ASSISTANT MAINTENANCE SURVEYOR. Grade II. Salary 2420×215 to 2465 per annum.

Candidates for appointment (a) must be Registered Architects, preferably A.R.I.B.A., with wide experience in design and construction of Public Buildings, including Schools, and administration. Candidates for appointment (b) should have passed the Intermediate examination of the R.I.B.A. or R.I.C.S., and have had experience on maintenance and minor works and surveys of sites and buildings.

The appointments will be subject to the Local Government Superannuation Act, 1937, and candidates, before appointment, will be required to pass a medical examination.

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

Applications should be made on forms to be obtained from the County Architect, The Castle, Winchester, to whom they should be returned not later than the 13th December. 1948.

G. A. WHEATLEY.

Applications are invited for the fellowing appointments at the Board's Head Office, 11a.

POTURNEST METROPOLITAN REGIONAL

HOSPITAL BOARD.

NATIONAL HEALTH SERVICE.

Applications are invited for the fellowing appointments at the Board's Head Office, 11a.

Portland Place. London, W.1.

ARCHITECTURAL ASSISTANT. Grade VIII of the A.P.T. Scales, i.e., £685×255—2760 p.a., plus £30 p.a. London weighting allowance.

Applicants should be Associates of the R.I.B.A. and preferably should have had experience in hospital planning. The person appointed should be canable of advising, under the direction of the Board's Architect, on building matters generally in the Region. in addition to carrying out ordinary executive duties.

ENGINEERING ASSISTANT. Grade VIII of the A.P.T. Scales, i.e., £685×255—2760 p.a., plus £30 p.a. London weighting allowance.

Applicants should be Corporate Members of the Institution of Mechanical Engineers or Heating and Ventilating Engineers. and should pr

buildings. Some electrical experience would be an advantage.

DESIGNER-DRAUGHTSMAN. Salary £300×£20-£500 p.a., plus Iondon weighting allowance according to age. (This scale is relating to age, the commencing point being £440 p.a. for persons over 28 years of age.)

Applicants should have experience in design and in drawing up plans and specifications for the engineering equipment of Hospitals or other large buildings.

Transferable officers who are appointed may opt to retain their existing salaries, including conditions of service.

The above appointments are subject to the National Health Service Superannuation Regulations, 1947/48.

Sational Health Service Superannuation Regula-tions, 1947/48. Applications stating age, qualifications and ex-perience, together with copies of not more than three recent testimonials, should be forwarded to the Secretary of the Board, 11a, Portland Place, W.1, by not later than Saturday, 11th December, 1948. E. G. BRAITHWAITE.
Secretary.

LONDON COUNTY COUNCIL.
PLANNING STAFF.
Vacancies in the following grades (some per-Manent):—
ASSISTANT SENIOR PLANNING OFFICER.
£1.000 to £1.200 a year.
PLANNING OFFICER, Grade I. £840 to £960

a year.
PLANNING OFFICER, Grade II. £700 to £840 a year. PLANNING OFFICER, Grade III. £550 to £700 a year. TECHNICAL ASSISTANT (a). £440 to £580

year. TECHNICAL ASSISTANT (b). 55s. to 167s, 6d.

TECHNICAL ASSISTANT (a). £440 to £580 a year.

TECHNICAL ASSISTANT (b). 55s. to 167s. 6d. a year.

Candidates for Grade III positions and above should possess architectural, surveying or town planning qualifications, and will be engaged on either (a) Research; (b) Development Plan, and Survey; (c) Development applications, or (d) Reconstruction Areas and detailed planning.

For the junior positions, planning experience is not essential, but candidates should have a good general education, an aptitude for drawing, and an interest in town planning.

Full particulars and form of application obtainable from the Architect to the Council (P). The County Hall, Westminster Bridge, S.E.I (enclose stamped addressed foolscap envelope). (2212) 399

BOROUGH OF SOUTHALL.

APPOINTMENT OF TOWN PLANNING ASSISTANT.

Applications are invited for the above appointment on the permanent staff of the Corporation, at a salary in accordance with Grade A.P.T., III, of the National Scheme (£450—£15—£495), plus appropriate London weighting.

Candidates must hold a recognized Town Planning qualification.

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

It is a condition of appointment that the successful applicant shall be a member of his appropriate trade union, professional organization, or other recognized body.

Applications, on forms to be obtained from the Borough Engineer, Town Hall, Southall, must be returned to him on refere Monday, 6th December, 1948.

Canvassing will disqualify.

J. S. SYRETT.

Town Clerk's Office, Southall.

11th November, 1948.

J. S. SYRETT.
Town Clerk's Office. Southall.

11th November, 1948.

OXFORDSHIRE COUNTY COUNCIL.
COUNTY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointment:
QUANTITY SURVEYOR. Grade VI, £595-£660 (consolidated salary).
Candidates must be qualified members of the R.I.C.S.
Applications, stating age, qualifications and experience, with one recent testimonial and the names and addresses of two persons to whom reference can be made, are to be sent to the County Architect, 3, Becket Street, Oxford, not later than the 11th December, 1948.
The post is subject to the provisions of the L.G. Superannuation Act, 1937, the passing of a medical examination, and is determinable by one month's notice on either side.

F. G. SCOTT,

F. G. SCOTT, Clerk of the Council.

Clerk of the Council.

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 (2480-528) of the National Scheme. 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 Saturday, 11th December, 1948.

JOHN WHITEHEAD.

JOHN WHITEHEAD, Town Clerk.

Town Hall. Tunbridge Wells.

Town Hall. Tunbridge Wells.

COUNTY BOROUGH OF DONCASTER.

Applications are invited for the appointment of Senior Architect, in the Berough Surveyor and Water Engineer's Department.
Candidates must be qualified architects, and are required to supervise the whole of the architectural works carried out in the Department, together with the technical Works Department section.

The salary will be in accordance with the National Joint Council Scheme of Conditions of

section.

The salary will be in accordance with the National Joint Council Scheme of Conditions of Service, Grade VI (£595-£560 per annum), and housing accommodation will be provided by the Council.

Council.

Applications, stating age, experience, qualifications and other relevant details, accompanied by conies of two recent testimonials, should be delivered to the office of the Borrugh Surveyor, 2. Priory Place, not later than Friday, the 3rd December, 1948.

H. S. ESSENHIGH. H. S. ESSENHIGH. Town Clerk.

1, Priory Place, Doncaster.

BOROUGH OF WATFORD.

BOROUGH ENGINEER AND SURVEYOR'S

DEPARTMENT
APPOINTMENT OF ASSISTANT ARCHITECT.
Applications are invited for the permanent appointment of an Assistant Architect, in the Borough Engineer and Surveyor's Department.

Salary on Grade VI of the National Scale, 2596 per annum, rising, subject to satisfactory service to £660 per annum.

Applicants should hold an appropriate professional examination, and must have had good experience in architectural design and construction.

fessional examination, and must have had good experience in architectural design and construction.

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

Applications, stating age, qualifications, present and past appointments and full details of experience, must be made on the prescribed form, which can be obtained from the undersigned, and must be returned to him not later than Saurday, 4th December, 1948, endorsed Assistant Architect."

F. C. SACE, A.M.Inst.C.E.,

M.I.Mun.E.,

Borough Engineer and Surveyor.

Town Hall, Watford,

November, 1948.

COUNE VALLEY URBAN DISTRICT

COUNCIL.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, in the Engineer and Surveyor's Department, at a salary in accordance with Grade III of the A.P. and T. Division of the National Scheme of Conditions of Service. namely £450, rising by annual increments of £15 to a maximum of £95 per annum.

Applicants must have had word training and experience in design and construction, be able to survey, prepare plans, estimates, quantities and specifications for building works.

Applicants must be Registered Architects, and preference will be given to applicants who are Associates of the Royal Institute of British Architects.

Associates of the Royal Institute of British Architects.

The appointment is subject to the provisions of the Local Government Superannation Act. 1397. and to one month's notice on either side.

Applications, endorsed "Architectural Assistant." stating age, qualifications, present and past appointments, details of experience, and whether married or single, accompanied by three recent testimenials, should reach the undersigned not later than Monday. 13th December. 1948.

Candidates must state whether to their knowledge they are related to any member or senior officer of the Council.

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A. W. LOMAS,

Clerk of the Council.

BINGLEY URBAN DISTRICT COUNCIL.

SURVEYOR AND ARCHITECT'S DEPT.

ASSISTANT.

APPOINTMENT OF ARCHITECT'S DEPT.

ASSISTANT.

Applications are invited for the appointment of Architectural Assistant, at a salary in accordance with Grade II of the A.P.T. Division of the National Scale of Salaries, i.e., 2420×215 to 2465 per annum.

Candidates should have had experience in

Accommodation for the area and early superson of the National Scale of Salaries, i.e., £420×£15 to £466 per annum.

Candidates should have had experience in housing design, development and general architectural work. Preference will be given to candidates who have passed some portion of the examination qualifying for A.R.IB.A.

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

It will not be possible to provide housing accommodation for the successful applicant.

Applications, stating age, qualifications, training and experience, and details of past and present appointments, accommonied by cepies of three recent testimonials, should be forwarded, andorsed "Architectural Assistant," to the undersigned before the 12th December, 1948.

F. M. DUNWELL. Clerk of the Council.

Town Hall, Bingley

Clerk of the Council.

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ST. PANCRAS BOROUGH COUNCIL.

APPOINTMENT OF TWO TEMPORARY

ASSISTANT ARCHITECTS.

Applications are invited for the above temporary appointments in the Architect's Department.

Salary scale £480-£570 per annum (plus London weighting according to age), in accordance with Grades IV-V of the National Scheme.

Candidates must be Corporate Members of the Royal Institute of British Architects, or Registered Architects, and should have had wide experience in architectural work, more particularly in Municipal housing schemes and the construction of flats.

in Municipal housing schemes and the construclion of flats.

The Council are unable to assist in the protision of housing accommodation. Canvassing will
liaquality. Applicants must disclose in writing
whether they are related to any member or senior
officer of the Council.

Applications by letter, stating age, training,
qualifications, experience, past and present
engagements, together with copies of three recent
testimonials, must be delivered to the undersigned
not later than the 31st December, 1948.

R. C. B. AUSTIN. Bt. Pancras Town Hall. Euston Road,
London, N.W.1.

15th November, 1948.

EAST KILBRIDE DEVELOPMENT CORPORATION.

NEW TOWNS ACT, 1946.

APPOINTMENT OF ARCHITECTURAL AND PLANNING STAFF

Applications are invited for planning and designing posts in connection with the carly construction of the New Town at East Kilbride, Lanarkshire, Scotland.

There are two senior positions covering the following aspects of the work: (1) planning, and (2) the design and layout of housing and public and other buildings. The architectural and planning staff is under the direction of the Chief Architect and Planning Officer, D. P. Reay, B.Arch., M.Sc., A.R.I.B.A., A.M.I.P.I. The two posts are:

are:-ASSISTANT CHIEF PLANNER. £1,000×

posts are:—
(a) ASSISTANT CHIEF PLANNER. £1,000×
£50-£1,250 per annum.
To supervise planning steff engaged on the production of the outline plan, the phasing of development, economic and aocial studies, etc. Candidates should be Members or Associate Members of the Town Planning Institute, and should be completely familiar with the latest developments in planning technique appropriate to a new development of this scale and character.
(b) ASSISTANT CHIEF ARCHITECT. £1,000×
£50-£1,250 per annum.
To supervise design groups and senior architects working on particular projects, buildings, or groups of buildings. Candidates must be Associates of the Royal Institute of British Architects or possess similar qualifications, and should preferably be members or Associate Members of the Town Planning Institute. They should be capable of the sensitive layout and design of groups and large areas of buildings in addition to possessing a sound contemporary approach to the architectural potentialities of the project. Applications are also invited for the following posts:—
(c) \$ENIOR PLANNERS. £760×£40—£1.000

SENIOR PLANNERS. £760×£40-£1,000

(c) SENIOR FLANNERS.

per annum.

To supervise and carry out specific planning aspects of the work. Candidates should be Members or Associate Members of the Town Planning Institute. A specialist background, i.e., economist, engineer, sociologist, architect, geographer, is desirable but not essential.

(d) SENIOR ARCHITECTS. £760×£40-£1,000 per annum.

(d) SENIOR ARCHITECTS. £100×£40—£1.000 per annum.

To direct design groups working on particular projects. buildings or groups of buildings. Candidates should be Associates of the Royal Institute of British Architects or pussess similar qualifications, and should show evicence of a sensitive contemporary approach to the design, equipment, and layout of buildings.

(e) LANDSCAPE ARCHITECT. £760×£40—£3000 per sanum.

sensuive contemporary approach to the design, equipment, and layout of buildings.

(e) LANDSCAPE ARCHITECT. 2760×240—21.000 per annum. The Development Corporation consider the land-scaping aspect of the New Town of great importance, and are interested in obtaining the services of a modern landscape architect prepared to live on the site and devote all his time to the work.

Alternatively, they are prepared to consider the appointment of a landscape consultant who would give regular attention to the work, while retaining an assistant at the site.

(f) PLANNERS 2550×230—2760 per annum. To work under (c) above. Similar qualifications.

(a) ARCHITECTS. 2550×230—2760 per annum. To work under (d) above. Similar qualifications.

(b) PLANNING AND ACHITECTURAL ASSISTANTS. 2450×255—2525 per annum. To work under (d) above. Similar qualifications.

(b) PLANNING AND ACHITECTURAL ASSISTANTS. 2450×255—2525 per annum. There is a superannuation scheme and selected candidates will require to pass a medical examination. Applications containing details of the candidate's age, qualifications and experience, together with the names of three referees, should be submitted in four cepies to the Ministry of Labour and National Service, quoting 2429/424/48 (K Section). Technical and Scientific Register, York House, Kingsway, London. W.C.2. not later than (give 14 days from publication crawssing, directly or indirectly of the members of the Corporation will constitute an absolute disqualification. 2.11.A.1 (20)

NORTHAMPTONSHIRE COUNTY COUNCIL. COUNTY ACCHITECT'S DEPARTMENT. Applications are invited for the following technical appointments (A.P.T., Grade V, salary

Applications are invited for the following technical appointments (A.P.T., Grade V. salary scale \$250-250):—
(a) ASSISTANT ARCHITECTS (TWO).
Candidates should be qualified Members of the R.J.B.A., with good general experience in the design and construction of public buildings, including schoels. Training at one of the recognized schools of architecture will be an asset.
(b) ASSISTANT QUANTITY SURVEYOR.
Candidates must be capable of undertaking all stages of the work in the preparation of bills of quantities, specifications, and preliminary estimates. Preference will be given to qualified members of the R.I.C.S.
The appointment will be determinable by one month's notice on either side, and will be subject to the provisions of the Local Government Superanuation Acts.
Forms of apolication may be obtained from the County Architect. County Hall. Northampton, to whom applications, accompanied by a copy of one recent festimonial, must be delivered not later than 9th December, 1948.

J. ALAN TURNER.—

J. ALAN TURNER,-Clerk of the County Council. County Hall, Northampton. 25th November, 1948.

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

DEPARTMENT OF ARCHITECTURE AND BUILDING.
The Governors invite applications from suitably qualified persons for the permanent full-time post of SENIOR ASSISTANT IN TOWN PLANNING AND ARCHITECTURE in the Department of Architecture and Building of the College. Salary in accordarce with the Burnham Further Education Report for Senior Assistants, i.e., £700×£25—£800 per annum, plus London allowances, and the usual training and graduate allowances.

allowances.

Applications (no forms) giving full particulars of training, qualifications and experience, should be submitted to the Clerk to the Governors, at the College, within two weeks of the appearance of this advertisement.

B. E. LAWRENCE,

County Offices, Chelmsford.

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

appointments to Established posts in the Deparment:—

(1) SENIOR ASSISTANT QUANTITY SURVEYOR, on A.P.T., Grades IV and V (2400 to 2570 per annum). Applicants must have had considerable experience in the preparation of Bills of Quantities, estimated costs, measurement on site, and the settlement of final accounts.

(2) SENIOR ASSISTANT ENGINEER, on A.P.T., Grades IV and V (2400 to 2570 per annum). Applicants must be experienced in the design and preparation of schemes for central heating and hot water supply installations.

The appointments will be experienced in the torms of the National Joint Council's Scheme of Conditions of Service, and to the provisions of the Local Government Superannuation Act, 137. Successful applicants will be required to pass a medical examination.

Forms of application may be obtained from the County Architect, Mr. A. G. Chant. F.R.I.B.A., 5. Belment. Shrewsbury, to whom they must be returned, accompanied by copies of not more than three recent testimonials, not later than 10 a.m. on Saturday, 11th December, 1948.

G. C. GODBER.

G. C. GODBER, Clerk of the Council.

November. 1948.

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

(a) ASSISTANT ARCHITECT. Salary, Grade
A.P.T., VI (£959-£20-£660).
(b) ARCHITECTURAL ASSISTANT. Salary,
Grade A.P.T., II (£920 × 215 - 2465).
(c) QUANTITY SURVEYOR. Salary, Grade
A.P.T., VII (£958 × 225-£760).

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

Candidates for (a) should be Associates of the E.I.B.A. and should heve recent experience in the design and construction of educational buildings.

R.I.B.A. and should be delivered to the undersigned not construction of educational buildings.

Candidates for (b) should preferably have passed the Intermediate examination of the R.I.B.A. and have good general experience in architectural work, preferably with a Local Authority.

Candidates for (c) should be Associates of the Royal Institute of Chartered Surveyors (Quantities Section), and be experienced in the preparations, Measuring for Interim and Final certificates and settling Final Accounts.

Applications, suitably endorsed, stating age, qualifications experience, previous appointments, present appointment and salary, accompanied by two recent testimonials, and giving the name of one referee, should be delivered to the undersigned not later than Saturday, the 18th December, 1948.

IVOR EVANS.
County Council Offices, Aberystwyth.

County Council Offices, Aberystwyth.

COUNTY BOROUGH OF BURNLEY.

COUNTY BOROUGH OF BURNLEY.

BOROUGH ENGINEER AND SURVEYOR'S

Applications are invited for the appointment of PLANNING ASSISTANT. at a salary in accordance with Grade II of the National Scales (£420, rising to £465 per annum).

Applicants should have had experience in a Planning Office, and preference will be given to candidates who have passed examinations of the Town Planning Institute.

Conditions of service are those formulated by the National Joint Council, and the appointment is on the established staff and subject to the provisions of the Local Government Superannation Act. 1937. The successful applicant will be recuired to pass a medical examination. Forms of application may be obtained from the Borouch Engineer and Surveyor. Town Hall Burnley, to whom applications should be returned in the envelope provided not later than Saturday, the 11th December, 1948.

C. V. THORNLEY.

Town Hall, Burnley. November, 1948.

NORTH-H Applicati

Staff :-(i) QUA (i) QUA £715×£25-the Final Chartered had considered Bills of Builders' Settling mating question with (ii) VAI (ii) VAI 2715×£25 of the Re or possess have had buildings nection w be purcha

property (iii) AS £580×±22 of the Experience Each s trial per National ns. 194 Application, sal names of Nicol,

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Clerk.

NORTH-EAST METROPOLITAN REGIONAL
Applications are invited for the following appointments on the Board's Headquarters'
Staff:—
(i) QUANTITY SURVEYOR. Salary scaleCIDIS-225-E790. Candidates should have passed the Final examination of the Royal Institute of Chartered Surveyors (Quantity Section), and have had considerable experience in the preparation of Bills of Quantities, Estimates, the Checking of Bills of Quantities, Estimates, the Checking of Bills of Gonarities Estimates, the Checking of Bills of Gonarities Experience in estimating quantities of controlled materials in connection with building projects is also necessary.
(ii) YALUATION ASSISTANT. Salary scale 2115-225-2790. Candidates should be Associates of the Royal Institution of Chartered Surveyors or possess an equivalent qualification, and should have had experience in the valuation of land and buildings and the preparation of reports in consection with inspection of sites and properties to be purchased, and the maintenance of a central property register.

(iii) ASSISTANT ARCHITECT. Salary scale 2500-221-1640. Candidates should be Associates of the Royal Institution of British Architects. Experience of hospital work is desirable but not essent.ai.

Each salary scale includes London weighting, and the appointments are subject to a six months' trial period and medical examination. The National Health Service (Superannuation) Regulations, 1947, are applicable.

Applications, showing name, age, present position, salary and experience, together with the names of three referees, should reach C. E. Nicol, Secretary, North-East Metropolitan Regional Hospital Board, Ila, Portland Place, W.1, not later than 14 days after publication of this advertisement.

Conversion of the properties of the publication of this advertisement.

Conversion of GLASGOW.

HOUSING DEPARTMENT.

Canvassing disqualifies.

CORPORATION OF GLASGOW.
HOUSING DEPARTMENT.
Applicants are invited for appointments as QUANTITY SURVEYORS, Grade II.
Applicants should have passed the Final examination of the Royal Institute of Chartered Surveyors, and should have had experience in taking off quantities from plans, preparing schedules and specifications, making up payments, probable costs and valuations, measuring up and adjusting final measurements for all trades.
The applicants will require to pass a medical examination for admission to the Corporation's Superannuation Scheme.
The salary is on a scale £390 per annum to £570 per annum. In certain circumstances a commencing salary above the minimum, but not exceeding £435, will be paid.
Applications, stating age, and giving particulars of training and experience, should be addressed to the undersigned, and should be received within fourteen days of the publication of this advertisement.

THOMAS W, ROBB.

ment. THOMAS W. ROBB. Assistant Director. Glasgow, C.1. 928

Housing Department, 20, Trongate, Glasgow, C.1. 928

GLENROTHES DEVELOPMENT

APPOINTMENT OF CHIEF ARCHITECT AND PLANNING OFFICER.

Applications are invited for the post of Chief Architect and Planning Officer to the Development Corporation. The functions of the post include the direction of the architectural and planning departments of the Corporation, and advising the Corporation on all questions relating to the planning of the new town and the design and execution of development projects carried out by the Corporation. Candidates should be Members of the Royal Institute of British Architects, and preferably of the Town Planning Institute, and should, in particular, be completely familiar with the latest developments in planning standards and technique appropriate to a development of this scale and character.

The salary range for this appointment will be 21.500 to \$1.750, and the initial salary payable will depend upon the qualifications and experience of the successful applicant.

The Cornoration intend to make housing provision, and will give all assistance in securing temp rary accommodation intend to make housing provision, and will give all assistance in securing temp rary accommodation of the successful applicant.

The Cornoration intend to make housing provision, and will give all assistance in securing temp rary accommodation of the successful applicants.

Canvassine, directly or indirectly, of the members of the Development Corporation will constitute an absolute disqualification.

Apolications, containing full details of the candidate's age, qualifications and experience, together with the usual references, should be submitted to the Interim Secretary, Glenrothes Corporation, Coanty Buildings, Cupar.

20th November. 1948.

METROPOLITAN BOROUGH OF POPIAR.

APPOINTMENT OF ARCHITECTURAL

20th November, 1948.

METROPOLITAN BOROLIGH OF POPLAR.
APPOINTMENT OF APCHITECTURAL
ASSISTANT (A.P.T., V).
Applications are invited from suitably qualified
persons for the above-mentioned appointment, on
the permanent establishment of the Borough
Burineer and Surveyor's Department.
Fell details of the appointment and form of
application may be obtained from the Berough
Eugineer and Surveyor, Poplar Town Hall. Bow
Road, E.S. to whom completed applications must
be delivered not later than first post on Monday,
13th December, 1948.

MINISTRY OF WORKS.
DIRECTORATE GENERAL OF WORKS.
Applications are invited for fining vacancies in the foliowing grade:—
ARCHITECTURAL DRAUGHTSMEN, having had a full period of recognized training and experience in the preparation of drawings for good class building work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualifications and experience within a scale rising to £495 per annum.

casses outding work. The work is varied and not confined to standard schemes. Starting pay will be assessed according to age, qualincations and experence within a scale rising to £495 per annum.

Vacancies are at Tunbridge Wells Office of the Ministry, but applicants may state a preference for appointments in London or eisewhere in the country.

Applications, stating age, present and previous appointments, training, qualincations, etc., should be sent to the Principal Officer, Ministry of Works, Government Buildings, Hawkenbury, Tambridge wells, Kent.

SOUTH-EASTERN REGIONAL HOSPITAL BOARD OF MANAGEMENT.

Applications are in-ited for appointment as CLERK OF WORKS to the above Board.

The person appointed will be resp. nable for the maintenance of the fabric of the hospitals and clinics in the Group, supervision of repairs and new works where necessary, and supervision of part of the engineering services.

Applicants should preferably be Members of the Institute of Cierks of Works, or should hold some other suitable qualification and have extensive experience in all branches of the Building trades. Applicants should also have a good knowledge and experience of the various engineering services in connection with hospitals and be capable of directing the work of overhauls and repairs.

The salary will be £500 per annum, and the post is subject to the provisions of the National Health Service (Scotland) (Superannuation) Regulations, 1948; the successful candidate will be required to pass a medical examination.

Applications, 1948; the successful candidate will be required to pass a medical examination.

ONE ARCHITECTURAL ASSISTANT. A.P.T. Division, Grade V. (Applicants should be Members of the Borough Engineer of Hidrod, to deal with work for the Committee for Education.

ONE ARCHITECTURAL ASSISTANT. A.P.T. Division, Grade III. (Applicants should have had good general training and avaccince.)

Members of the Royal Institute of British Architects.)
ONE ARCHITECTURAL ASSISTANT. A.P.T.
Division, Grade III. (Applicants should have
had good general training and experience.)
Application must be made on a form to be
obtained from the Borough Education Officer and
returned to him at the Town Hall, Illord, together
with copies of not more than three recent testimonials, within 14 days of the appearance of this
advertisement.
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monials, within 14 days of the appearance of this advertisement.

STAFFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. APPOINTMENT OF SENIOR PLANNING ASSISTANTS.

Applications are invited for appointments as Senior Planning Assistants, in the County Planning Department. Vacancies exist in the Area Office at Quarry Lodge, Tamworth Read, Lichfield, and the Head Office at Stafford. The persons appointed will work under the County Planning Officer, and will be mainly engaged on the preparation of outline and development plans and reporting on processls for development. The person appointed to fill the vacancy in the Area Office will act as Deputy to the Area Planning Officer.

Applicants should be qualified Planners, and preference will be given to those who have, in addition, a recognized qualification in Architecture. Engineering or Surveying. They should have had practical experience in planning and in the application of modern planning legislation and technique. As an alternative to those already mentioned, a qualification in landscape architecture or forestry would be considered an advantage.

The salary will be in accordance with A.P.T.

mentioned, a qualification in landscape architecture or forestry would be considered an advantage.

The salary will be in accordance with A.P.T., Grade VI, of the National Scales, viz., £595.£660 per annum.

The appointments will be subject to the provisions of the Local Government Superannuation Act. 1937; the National Joint Council's Scheme of Conditions of Service as adopted by the County Council; the passing of a medical examination; and to one month's notice on either side.

Canvassing, directly or indirectly, will be deemed a disqualification, and relationship to any Member or Senior Officer of the Council must be disclosed.

Applications should give details of age, education, technical training, qualifications, present and previous apprintments, and experience, and should include copies of two recent testimonials and the names of two other persons to whom reference can be made. They should be addressed to the County Planning Officer, County Buildings, Stafford, so as to be received not later than the 11th December, 1948.

T. H. EVANS,

T. H. EVANS,

Clerk of the County Council.

County Buildings, Stafford.

19th November, 1948.

METROPOLITAN BOROUGH OF
HAMMERSMITH.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.
Applications are invited for the permanent appointment of Architectural Assistant, in the Borough Engineer and Surveyor's Department, at a salary in accordance with Miscellaneous Division I/II, commencing at 2315, plus London weighting. Candidates must be good Draughtsmen and should have had architectural experience in housing and general building work.
Forms of application and further particulars may be obtained from the undersigned upon receipt of a foolscap stamped addressed envelope.
HORACE SLIM,
Town Hall, Hammersmith, W.6.

Town Hall, Hammersmith, W.6. 19th November, 1948.

19th November, 1948.

Amended Advertisement.
BOROUGH OF MACCLESFIELD.
APPOINTMENT OF ARCHITECTURAL
ASSISTANT.

Applications are invited for the appointment of an Architectural Assistant, at a salary in accordance with Grade A.P.T., II, of the National Scales (Consolidated), commencing at £450 per annum, rising to £495 per annum, rising to £495 per annum, rising to £496 per annum and with his period of the R.I.B.A. and must have had a thorough training and experience in Architectural work. Preference will be given to applicants who have had experience in Municipal housing.

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

Applications, stating age, experience and qualifications, and accompanied by a copy of a recent testimonial, and giving the names, etc., of two referees, should reach the undersigned not later than Tuesday, 7th December, 1948.

WALTER ISAAC,
Town Clerk.

Town Hall, Macclesfield. 20th November, 1948.

Architectural Appointments Vacant 4 lines or under, 3e.; each additional line. 1s. 6d.

A N expanding Middle East Oil Company urgently requires a SENIOR ARCHITECTURAL ASSISTANT, for the London office, to be engaged in the preparation of sketch plans, working drawings and details for domestic, commercial, industrial, social and civic buildings usual to the development of Municipal Estate; at least 5 years' practical experience, if school trained A.R.I.B.A., or 15 years' experience design and working drawings with architects of standing; quick accurate draughtemanship, with sound knowledge of construction, essential; age 39-6; salary at least £600 per annum, but according to age and experience. Write giving brief details for application form, and quoting LO 118, to Box "R.P.," c/o J. W. Vickers & Co., Ltd., 78, Great Winchester Street, London, E.C.2. 740

A N expanding Middle East Oil Company

Great Winchester Street, London, E.C.2. 740

A N expanding Middle East Oil Company urgently requires an ASSISTANT ARCHITECT, in the London office, for the execution of sketch and working drawings connected with any architectural items required; should be up to senior architectural standard, A.R.I.B.A. preferable; not less than 7 years in drawing offices, engaged on housing schemes, public buildings, town planning, etc., knowledge of Middle East architectural practice, climatic difficulties, materials, is an advantage; some knowledge of reinforced concrete and specialised construction, including the "Bellrock" system, desirable; age 25-40; salary £600.2750 per annum, according to age and experience. Write giving brief details for application form, and quoting LO 125, to Box "Z.K." e/o J. W Vickers & Co., Ltd., 7/8, Great Winchester Street, London, E.C.2.

ARCHITECTURAL ASSISTANT (SENIOR) required for Dublin City office; expert know-ledge working drawings; Building Construction and alteration work; 10 years' office experience essential; salary £650-£750 per year. Box 825.

essential; salary £650-£750 per year. Box 825.

NATIONAL COMPANY, with interests an ARCHITECTURAL ASSISTANT in their London offices; the work is generally industrial, and calls for quick and accurate drauchtsmanship, detailing, and ability to write specifications, make surveys, take levels, and deal with all Authorities concerned; applicants should be capable of taking a job from the sketch stage to final account, with slight supervision; salary £600 per annum; Member of the R.I.B.A. preferred. Bex 831.

QUALIFIED ASSISTANT ARCHITECT required for Commercial and Industrial work; salary £500 to £2720. according to experience and capabilities. Full information to A. C. Blackmore & Co., Chartered Architects, Ruskin House, Princes Avenue, Hull.

A RCHITECTURAL DRAUGHTSMAN required by an industrial concern in the East London area; salary from £600. Box 806.

A RCHITECTURAL ASSISTANT required; Inter. standard; good draughtsman; West Oxfordshire and Cotswold district; state experience, age, and salary required. Box 814

SENIOR and Intermediate ARCHITECTURAL ASSISTANTS required immediately; salary according to experience and qualifications. Farmer and Dark, Chartered Architects, Terminal House, Grosvenor Gardens, London, S.W. 818

ASSISTANT AECHITECT required by Samuel Williams & Sons, Ltd., for industrial work at their Dagenham Dock Works and Estate, and in connection with many clients' factories in the Greater London area; applicants should be first-class draughtamen, with sound knowledge of construction, and not less than 7 years' experience of industrial buildings; a good salary is offered to an experienced man, and the appointment is pensionable; assistance will be given in finding a house if required. Write Personnel Manager, Samuel Williams & Sons, Ltd., Dagenham Dock. Emsex.

VACANCY for ARCHITECT'S ASSISTANT; Inter. R.I.B.A. standard. Gotch, Saunders & Surridge, F./A.R.I.B.A., High Street, Kettering.

PROGRESSIVE appointment, with prospect of early Partnership, offered to capable and energetic qualified ARCHITECTURAL ASSISTANT (30/40) in private general practice near London (E.), with country connections; design, surveying and levelling, and some knowledge of quantities; minimum salary £500. Box 846.

A RCHITECTURAL ASSISTANT required in Lancashire office; must be good draughtsman, with general all-round office experience, and accustomed to preparation off working drawings and details from preliminary sketches and instructions; state age, experience and salary required, and give copies of two testimonials.

URGENTLY required ARCHITECTURAL practice. Reply, giving particulars of age, experience, salary required, and when available, to Herbert J. Stribbing, F.B.I.B.A., Highfield, Bath Road, Slough. Telephone: Slough 2371. ARCHITECTURAL

EXPERIENCED ARCHITECTURAL ASSIS-TANT required, dealing with Multiple Store, Industrial and Domestic Work, etc. Apply, giving full particulars of experience, salary, age, etc. Norman Jones, Son & Rigby, 271, Lord Street, Southport.

ASISTANT QUANTITY SURVEYOR required in Manchester office; should be experienced in preparing Bills of Quantities, measuring work, and adjusting variations on Contracts; successful candidate will be required to pass a medical examination for entry into compulsory Superannation Scheme. Applications, stating age, qualifications, experience, and salary required, with copies only of testimonials, to Box 897.

ENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required. Apply in writing to Lucas, Roberts & Brown, Architects and Sur-veyors, Barnfield Hill, Exeter. 888

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10 portant work, SENIOR ASSISTANT and INTER-STANDARD ASSISTANT; previous good office experience essential in both cases. 'Phone WELbeck 8898 for appointment.

A RCHITECTURAL ASSISTANT SENIOR SE

A RCHITECTURAL ASSISTANT required; experienced in industrial work and working drawings. Write, stating salary and experience, to L. G. Mouchel & Partners, Ltd., 38, Victoria Sireet, S.W.L.

A RCHITECTURAL ENGINEERING A TANT required for small London office; experienced in Industrial buildings, reinforced concrete detailing; must be quick, neat draughtsman; permanent progressive position for man with initiative; salary £550 to £650, according to experience. Box 904. A RCHITECT'S ASSISTANT for progressive general practice; Inter. B.I.B.A. minimum standard; commencing salary £450 per annum. Please write with full particulars of training, experience, etc., to Edward Narracott, A.R.I.B.A., 48, Torwood Street, Torquay.

ULIAN LEATHART & TINGAY require two experienced ASSISTANTS, to work on military barracks, flats and factories; salary according to experience and ability; interview by appointment. Telephone Welbeck 0555.

DRAUGHTSMAN required (London), preferably with experience in one or more of the following: Structural Engineering, Roofing, Patent Glazing, Heating and Ventilation; must be prepared ultimately to take full responsibility technical affairs in absence of Technical Director. Full details and salary expected to Box 882.

A RCHITECTURAL ASSISTANT required; pre-ferably experienced in the design, alteration and maintenance of industrial buildings, and capable of preparing surveys, working drawings, details and specifications; knowledge of quantities an advantage; the appointment would be per-manent and pensionable. Applications, stating age, experience, qualifications, and salary re-quired, should be sent to the Staff Controller, The Gas Light & Coke Company, 30, Kensington Church Street, W.8.

A RCHITECT'S ASSISTANT required; up to Intermediate standard. Write, stating ex-perience, salary required, to Graham Crump, F.R.I.B.A., 43, George Street, Croydon. 880

A RCHITECTURAL ASSISTANT required; school trained, with office experience of sketch planning for design work in Architects' office, London West Central area; age up to 35. Write, giving details of experience and salary, to Box 881.

A RCHITECTURAL ASSISTANT required for City Office; R.I.B.A. Inter. standard prefer, able; must be good draughtsman; salary by arrangement. Please telephone Messrs. Hadfield & Jenkins, Mansion House 9262.

JUNIOR ARCHITECTURAL ASSISTANT required in Staff Architects' Office of large London Building Society; salary according to age and experience. Write, stating age, experience, and salary required, Box 912.

WANTED. — JUNIOR ARCHITECTURAL ASSISTANT, in West Riding of Yorks; good draughtsman; details of experience and salary required. Box 918.

CHELMSFORD Architect requires TANT; qualified by examination or ence. Write full particulars to Box 915.

A RCHITECT, with office in Bedford, requires ASSISTANT; capable of taking charge in principal's absence. Reply by letter, stating age, experience, and salary required, Box 916.

A RCHITECTURAL ASSISTANT required in Hertford Office; experience in Housing Contracts essential. Write stating age, experience, and salary required, Box 917.

SENIOR and Intermediate standard ARCHI-TECTURAL DRAUGHTSMEN required immediately. Hugh Roberts & Davies, FF.R.I.B.A., 27, Grosvenor Place, S.W.1. 925

PPLICATIONS are invited for ARCHITEC.
TURAL ASSISTANTS, in the C.W.S. Architect's Department, London; applicants should be good draughtsmen, possess a sound knowledge of building construction, and be capable of preparing working drawings; appointment to the permanent staff, and Superannuation Scheme after 3 months' satisfactory service. Applications, stating age, qualifications, experience, and salary required, to W. J. Reed, F.R.I.B.A., C.W.S., Ltd., Architect's Dept., 99, Leman Street, London, E.1.

A RCHITECTURAL ASSISTANTS wanted; salaries up to £10 per week. Watkin & Willis, Chartered Architects, Burslem, Stoke-on-

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willis, Chartered Architects, Burslem, Stoke-on-Trent.

ARCHITECTURAL ASSISTANTS and R.C.
DESIGNER required, for the Central Repeatering Department of the Distillers Co. Ltd., for work on the design of industrial, administrative and laboratory buildings, foundations and services for Chemical factories; applications are invited from qualified men, capable of working on their own initiative; appointments will be on a salary own initiative; appointments will be on a salary salications, and evidence of ability. Applications, which should state fully experience, qualifications, age, and salary required, should be addressed to The Appointments Secretary. The Distillers Co., Ltd., Central Engineering Department. 82. Piccadilly, London, W.1.

ARCHITECTURAL DRAUGHTSMAN required; age 30 to 35; salary according to qualifications and experience; 38-hr. week, no saturdays; pension scheme. Apply in writing, giving details. to Humphreys & Glasgow, Ltd., 22. Carlisle Place, S.W.1.

### Architectural Appointments Wanted

A PPLICANT, with good experience and references, seeks employment as CLERK OF WORKS or supervising officer, with a progressive firm of Building Contractors or Interior Decorators. Box 201.

R EGISTERED ARCHITECT, Chartered Surveyor (37), Article trained, 21 years' experience, provinces, London and Continent, seeks post, with family accommodation guaranteed.—Browa, 16, Highbury Place, N.S.

JUNIOR ARCH. ASSISTANT (22. male) requires post in Architect's Office in the London area; previous experience, 6 months Architect's Office in S.E. London; taking full Architectural Course (Evening Classes) at Regent Street Polytechnic; capable of executing details and working drawings, etc., under supervision. Write M. Asbridge, "Blencathra," Hurst Road, Bexley, Kent.

QUALIFIED QUALIFIED ARCHITECT requir gressive position; London area; 12 years' practical experience. Box 210. requires res pro-

### Other Appointments Vacant 4 lines or under, 5s.; each additional line, 1s. 6d.

BOULTON & PAUL, LTD., Norwich, invite applications for senior post of COM-MERCIAL MANAGER of their Woodworking Department; similar experience and knowledge of woodworking essential for this responsible position. Write fully, stating qualifications, experience, age and salary required, to the Chairman, 14, Stanhope Gate, London, W.1. 884

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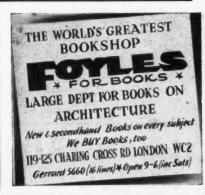
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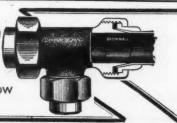
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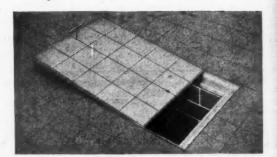
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