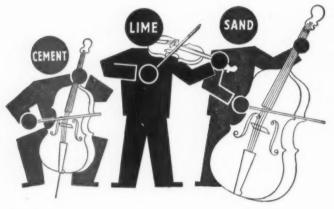
RTS DEPT!		The Architects' JOURNAL for March 1, 1951
THE A	R	CHITECTS'
	I (OURNAR 1 6451 L sary of abbreviations of Government Departments and Societies and Committees
	of all kinds, lished in two mentioned th AA A AAI A ABS A ABT A	A, together with their full address and telephone numeers. The glossary is pub- to parts—A to le one week, Ig to Z the next. In all cases where the town is not the word LONDON is implicit in the address. Architectural Association, 34/6, Bedford Square W.C.1. Museum 0974 Association of Art Institutions. Secy. : W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhampstead, Herts. Architects' Benevolent Society. 66, Portland Place, W.1. Langham 5721 Association of Building Technicians. 5, Ashley Place, S.W.1. Victoria 0447-8 Arts Council of Great Britain. 4, St. James' Square, S.W.1. Whitehall 9737
	ADA A	Aluminium Development Association. 33, Grosvenor Street, W.1. Mayfair 7501/8 Association for Planning and Regional Reconstruction. 34, Gordon
endard contents every issue does not necessarily contain all these contents, but they are the regular features which continually recur.	ARCUK ASB	Square, W.C.1. Euston 2158-9 Architectural Students' Association. Department of Architecture, School of Building, Ferndale Road, Brixton, S.W.4. Brixton 7048 Architects' Registration Council. 68, Portland Place, W.1. Welbeck 9738 Architectural Science Board of the Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721 Association of Scientific Workers. 15, Half Moon Street, Piccadily, W.1.
EWS and COMMENT	BAE	Board of Architectural Education. 66, Portland Place, W.1. Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1.
iary iavs stragal's Notes and Topics atters	BC BCCF BCIRA BDA BEDA BGF	Reliance 7611, Ext. 1706 Building Centre. 9, Conduit Street, W.1. British Colour Council. 13, Portman Square, W.1. British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. British Cast Concrete Federation. 17, Amherst Road, Ealing, W.13. British Cast from Research Association. Alvechurch, Birmingham. British Door Association. 10, The Boltons S.W.10. British Electrical Development Association. 2, Savoy Hill, W.C.2. Temple Bar 9434 British Ironfounders' Association. 145. Vincent Street, Glasgow, C.2.
cieties and Institutions ECHNICAL SECTION	BIAE BID BINC BOT BRS	Glasgow Central 2891 British Institute of Adult Education. 29, Tavistock Square, W.C.1. Euston 5385 Building Industries Distributors. 52, High Holborn, W.C.1. Chancery 7772 Building Industries National Council. 11, Weymouth Street, W.1. Langham 2785 Board of Trade. Millbank, S.W.1. Whitehall \$140 Building Research Station. Bucknalls Lane, Watford. Garston 2246
formation Sheets	BSA BSI BTE	Building Societies Association.14, Park Street, W.1.Mayfair 0515British Standards Institution.28, Victoria Street, S.W.1.Abbey 3333Building Trades Exhibition.4, Vernon Place, W.C.1.Holborn 8146/7
formation Centre urrent Technique	CABAS	City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Borough Architect, Town Hall, Newport, Mon. Newport 3111 County Architects Society. C/o F. R. Steele, F.R.I.B.A.,
uestions and Answers	CCA	County Hall, Chichester. Chichester 3001 Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. Sloane 5255
rices The Industry	CCP CDA CIAM CID CPRE CUJC	Council for Codes of Practice. Lambeth Bridge House, S.E.1. Reliance 7611 Copper Developmenn Association. Kendais Hall, Radlett, Herts. Radlett 5616 Congrès Internationaux d'Architecture Moderne. Doldertal, 7.Zurich, Switzerland. Council of Industrial Design. Tilbury House, Petty France, S.W.I. Whitehall 6322 Council for the Preservation of Rural England. 4, Hobart Place, S.W. Sloane 4280 Coal Utilization Joint Council. 13, Grosvenor Gardens, London, S.W.I.
HYSICAL PLANNING SUPPLEMENT	CVE DGW	Victoria 1534 Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1 Reading 72255 Directorate General of Works, Ministry of Works, Lambeth Bridge House S.E.1
URRENT BUILDINGS	DIA DOT EJMA	Design and Industries Association. 13, Suffolk Streei, S.W.1. Department of Overseas Trade. 35, Old Queen Street, S.W.1. English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1. Regent 4448
OUSING STATISTICS	EPNS FAS	English Place-Name Society. 7, Selwyn Gardens, Cambridge. Faculty of Architects and Surveyors. 8, Buckingham Palace Gdns., S.W.1. Sloane 2837
rchitectural Appointments Wanted and Vacant	FASSC FBI FC FCMI FDMA FLD	Federation of Association of Specialists and Sub-Contractors. 21, Tothill Street, S.W.1. Whitehall 9696 Federation of British Industries. 21, Tothill Street, S.W.1. Whitehall 6711 Forestry Commission. 25, Savile Row, W.1. Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. Sloane 1002 The Flush Door Manufacturers Association Ltd. Trowell, Nottingham. Ilkeston 623 Friends of the Lake District. Pennington, House, nr. Ulverston, Lacs.
	FMB	Ulverston 201 Federation of Master Builders. 26, Great Ormond Street, Holborn, W.C.1. Chancery 7583
	FOB 1951 FPC FRHB	 Festival of Britain 1951. 2, Savoy Court, Strand, W.C.2. Waterloo 1951 The Federation of Painting Contractors, St. Stephen's House S.W.1. Whitehall 3902 Federation of Registered House Builders. 82, New Cavendish Street, W.1. Langham 4041
No. 2922] [Vol. 113	FS (Eng.) GG	g.) Faculty of Surveyors of England. Buckingham Palace Gdns., S.W.1. Sloane 2837 Georgian Group. 27, Grosvenor Place, S.W.1. Sloane 2844
THE ARCHITECTURAL PRESS , 11 and 13, Queen Anne's Gate, Westminster,	HC IAAS	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. Sloane 5615
W.1. 'Phone: Whitehall 0611 Price Is. Od	ICA	Institute of Contemporary Arts, 17-18, Dover Street, Piccadilly, W.1 Grosvenor 6186 Whitehall 4577
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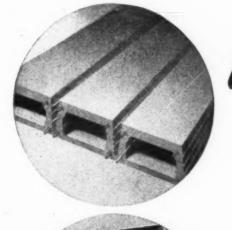
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increments. Typ
in lengths over
indicated below.
: These are bas

3 ft. to 7ft. rising by	
increments. Types avail	
in lengths over 7 ft.	are
indicated below.	
: These are based on	
average make of the	сог-

responding roofing sheets. The following list gives *some* of the types of

C.P. Max.		Max.	For we with		
Type No.	Pilch Langth		For use with		
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$\frac{280}{281}$	2§″	120"	Standard (3" nominal) asbestos cement		
309	3"	120"	8/3" iron and similar		
311	3"	120"	10/3" iron and similar		
505	5"	90″	5/5" iron		
518	51"	84″	Eternit No. 5 asbestos cement		
535	51"	84"	Robertson Protected Metal 'V Beam'		
567	53"	120"	'BIGSIX' style asbestos cement		
568	51"	120″	New 'BIGSIX' style asbestos cement		
588	51"	120"	SUPER-SIX' asbestos cement		
606	6"	84″	6" (actual pitch) asbestos cement		
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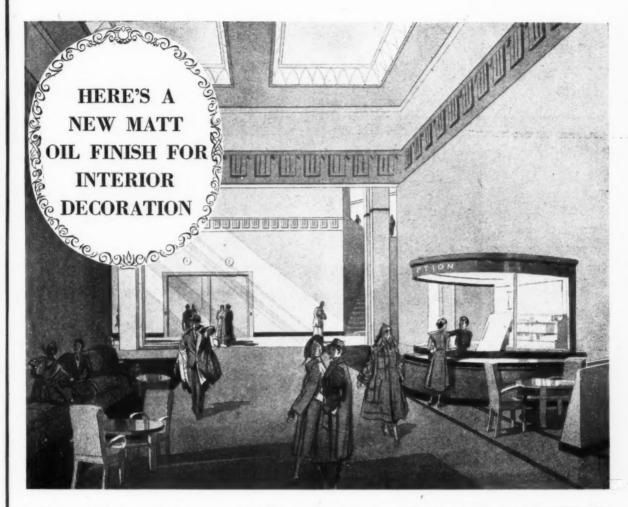
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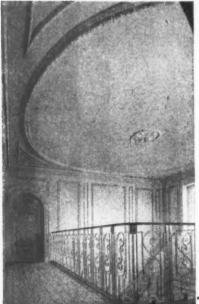


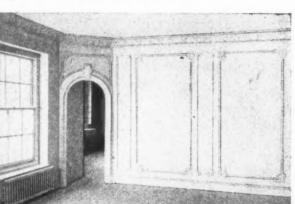
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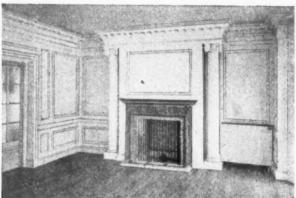
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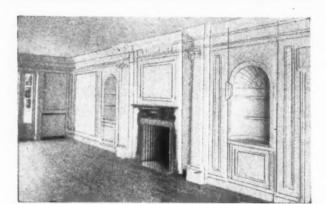


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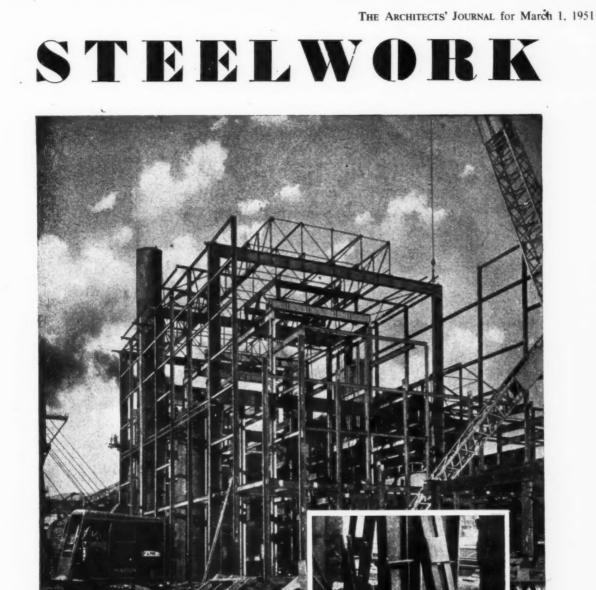




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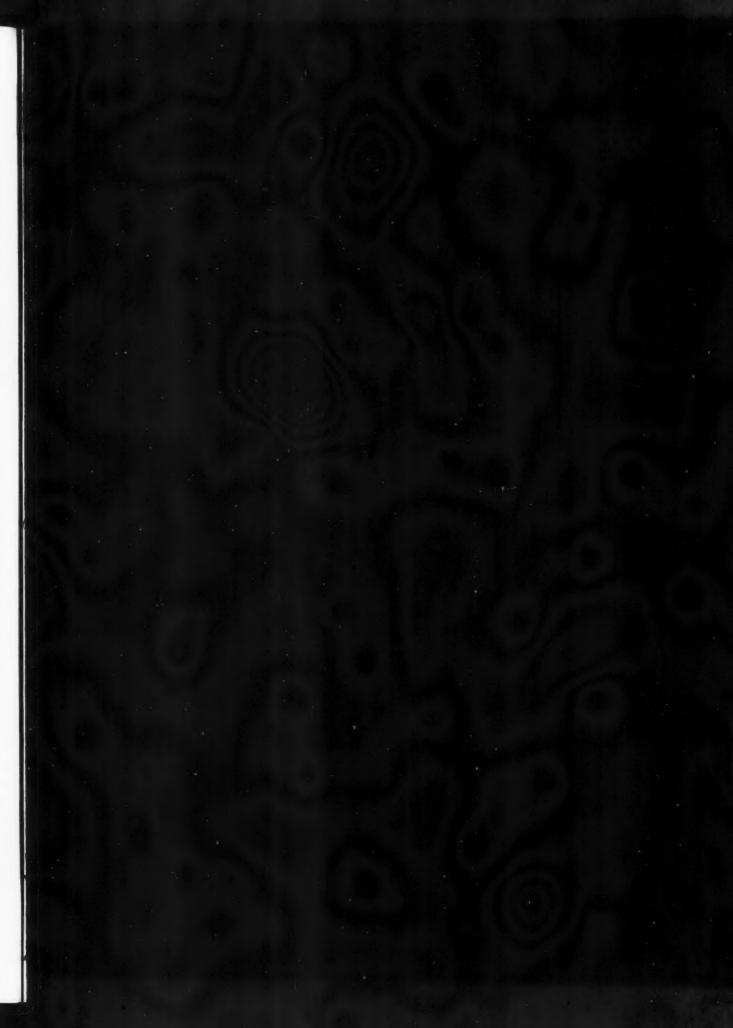


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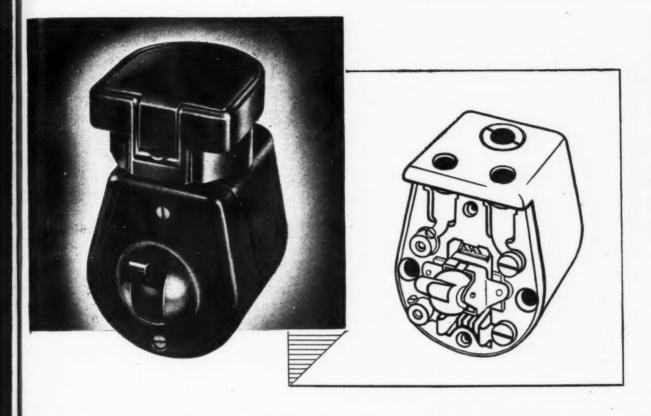
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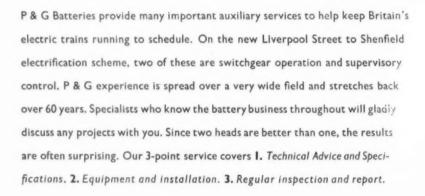
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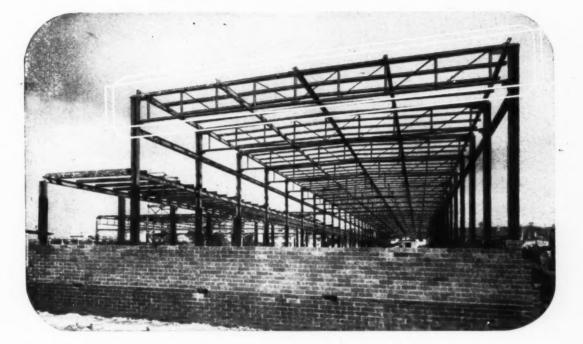
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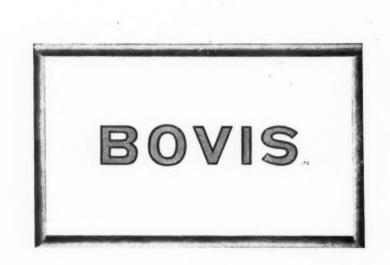
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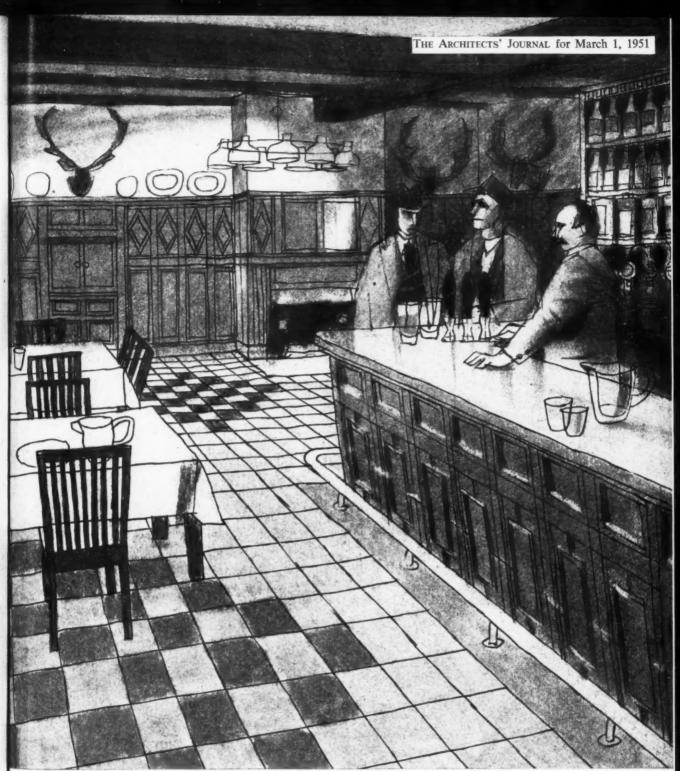
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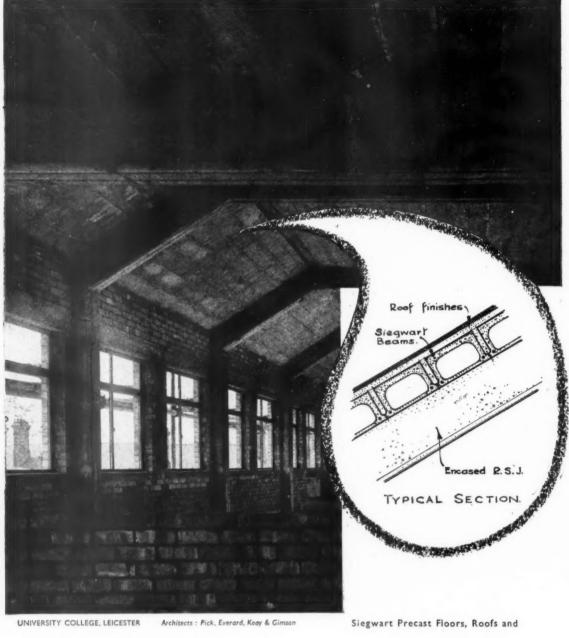
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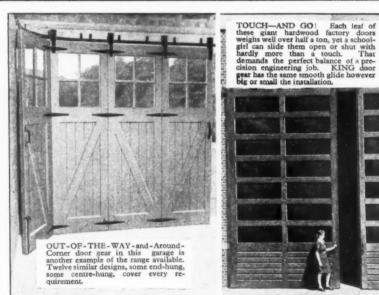
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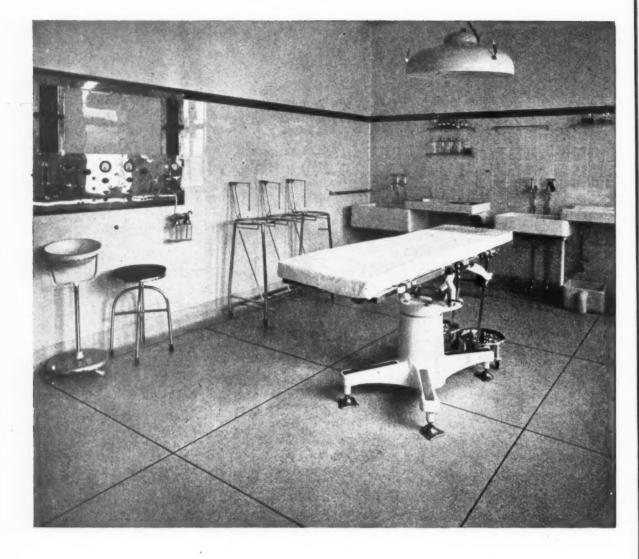
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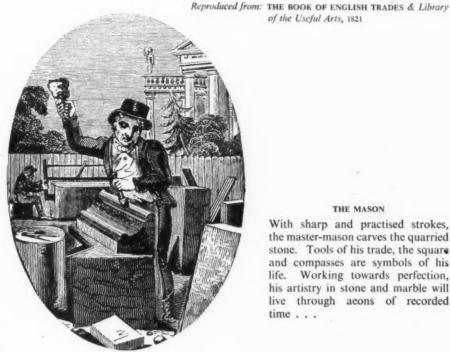
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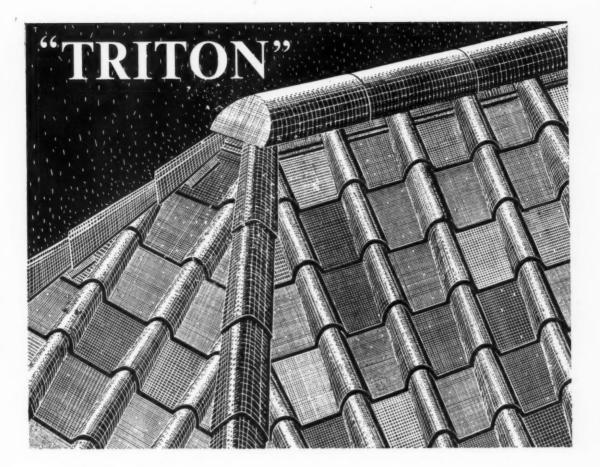
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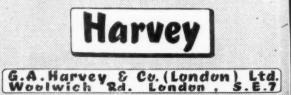
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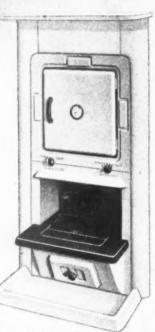
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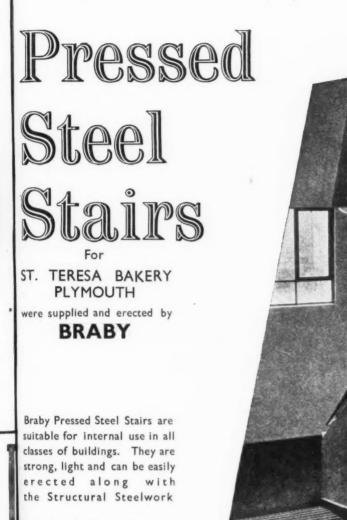
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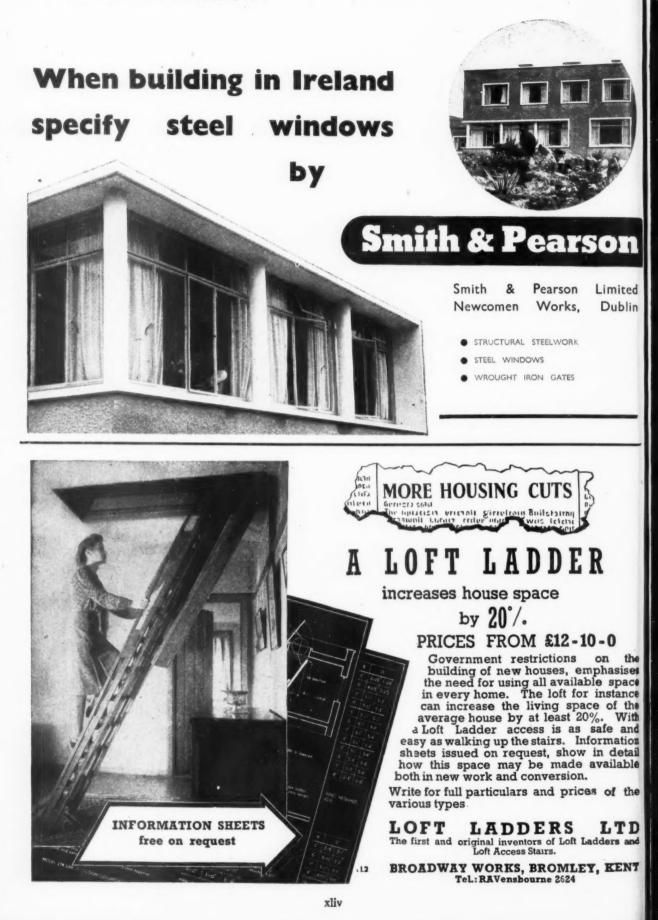
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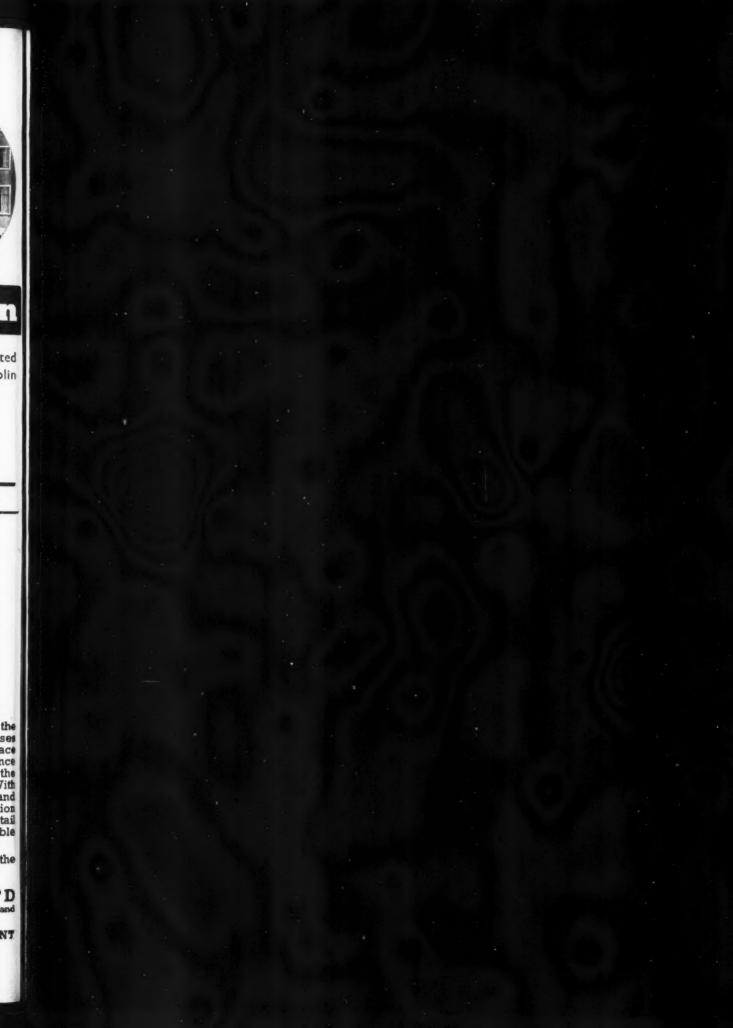


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HE COLONIAL OFFICE

suppose we must regard the overnment's promise to set the cade of the new Colonial Office back other 30 feet as a victory. It would churlish not to do so, as it represents real concession and the Minister of Vorks is clearly trying to satisfy the ublic's wishes. But I cannot help aking two comments. One is that tall building set back so far, though may be less of a threat to the Abbey. no contribution to the ultimate ideal completely restoring the collegiate haracter of the Westminster precinct. What is required for this purpose is a odest building designed to closeisually speaking—the vista down Victoria Street from Parliament quare.

My other comment is that the new an coincides, roughly speaking, with what the Royal Fine Art Commission

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thought desirable when they considered the project a long time ago. But all the public knew was they had approved it. Their real views, accompanied by their regrets that these had not been accepted, were only made known when their annual report was published much later. If they had spoken out in the first place, they would have plenty of public support and the change could have been made before the plans had gone so far, saving everyone a lot of inconvenience.

I hope the experience of this case will encourage the Commission to speak out more bravely in future.

SWEDEN: BY KIDDER SMITH

Stiff art paper, and an intriguing, opulent, intangible smell (is it the ink or the paper?) greet the person who opens Sweden Builds,* the second survey, by the American architect, G. E. Kidder Smith, of European architecture. The first book, also published by the Architectural Press, was Switzerland. This companion on volume is every bit its match as an all-embracing survey of Sweden's past and present architectural achievements, and it is illustrated by the same brilliant photography, an example of which, I am told, is on page 264.

It is refreshing to find, despite the repeated strong doses of Swedish design which have been fiercely injected into our muddied aesthetic bloodstream by illustrated lectures, magazines and professional plagiarists, that there remains a considerable amount of material which has not been illustrated before over here. I have, however, one complaint, which I also made about the Swiss book: the colour plates might have been more * Sweden Builds, by G. E. Kidder Smith. The Architectural Press. 458.

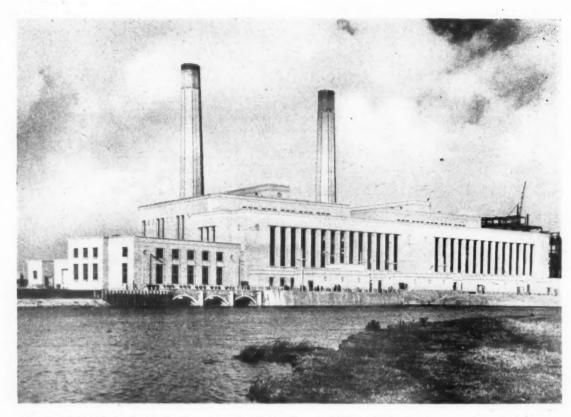
carefully chosen to illustrate the deliberate use of colour in buildings. In this instance, too, the colours are rather harsh.

Kidder Smith has adopted the same successful method of exposition as before. He starts with a study of the traditional and simple functional types of early native building as a basis for his full and careful study of contemporary designs. The result is as stimulating and provocative to dreary slumridden Englishmen as was once a 1945 election promise.

THE FUNCTIONAL TRADITION REGAINED Two feathers adorn the RIBA's cap this week. The first; their Architecture of Transport exhibition, now open, which should go far to educating the general public in the quality of design they should expect to find in public transport. The standard of presentation is of the neatness and clarity which one almost automatically expects from the **RIBA** Exhibition Group.

It seems a pity that no exact record in miniature is kept of the RIBA exhibitions. It would be fascinating, for instance, to be able to compare the Architecture of Transport exhibition held at Conduit Street twenty-five years ago with the current show on the same subject. If we could do so, we would be impressed, I believe, not only by the remarkable advance in structural technique during the last quarter of a century but by the evidence that an unequivocal style is at last emerging from a century's confusion.

Foreign work is, of course, predominant, and I thought that the barrel of good design in this field had been fairly well scraped. Indeed, the exhi-



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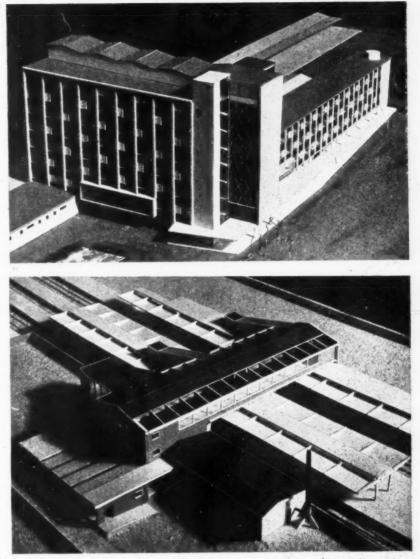
As was disa how arriv of 1 four at con met bition committee has been forced, perhaps, to be slightly more catholic than usual in its choice.

As far as British design is concerned. the good work will all be fairly familiar to readers. Two projects, however, caught my eye as being well up to, if not above the comparatively high standard of foreign work in the same subject. I refer to designs by H. E. B. Cavanagh, the chief architect to the Western Region of British Railways, for stations at Plymouth and Banbury. which are illustrated on the right. The simple, precise planning, with a clear separation of functions, is made, in each instance æsthetically delightful by the interesting relationships of rooms, concourses, and platforms. I wish Mr. Cavanagh and his assistants a speedy completion of the two buildings.

The moral of the promising new railway architecture seems to be: if you want character in the new bureaucratic building, decentralize design control and give the utmost possible freedom of expression to the man on the job. Only thus will you regain that fine functional tradition founded by the early canal and railway engineers, which has unity without boredom.

The second feather in the RIBA cap is for their enterprise in getting Wallace K. Harrison, the chief architect for the United Nations building, to come over here and give a talk on this building at Portland Place. As prophesied, the hall was packed to overflowing—as I am sure it will always be so long as the RIBA pursues the policy of getting foreign architects to talk publicly and freely on current architectural problems.

As regards Mr. Harrison's paper, I was, I reluctantly confess, somewhat disappointed. He said a little about how the design of the secretariat was arrived at, but very little on the problem of how architects and engineers from fourteen different countries, speaking at least ten languages, managed to combine as a group, and whether such methods of group designing really



These projects for stations at Plymouth (top) and Banbury (bottom), designed by H. E. B. Cavanagh, the chief architect to the Western Region for British Railways, are on view at the exhibition of "Architecture of Transport" at the RIBA, 66, Portland Place, W.1, which will be open until March 22.

work out in practice. And he told me nothing at all of what, to us, is one of the most important and fascinating aspects of American building: the high speed of erection and the mechanical and structural factors involved. Perhaps Mr. Harrison can be persuaded to give a further talk soon. believe that they will be able to work right up to the moment they step into their coffins and leave their widows and dependants with some security. The experience of the Architects' Benevolent Society shows this to be a very mistaken idea.

THIS WEEK'S GOOD CAUSE

Those interested in geriatrics will have realized that not only is the population of the British Isles becoming a more aged one, but on the average architects are apt to live longer than those following many other professions. In spite of this there are apparently thousands of architects who appear to The ABS recently celebrated its centenary by appealing for a sum of £50,000 to enable it to build and endow homes for its beneficiaries. The RIBA feels this is a suitable time to put on a small exhibition designed to show the progress that has been made in providing accommodation for old people. It will be held at the RIBA



Civilized Architecture

This illustration of a block of flats by Backström and Reinius, in Elfvinggärden, Stockholm, appears in the book *Sweden Builds*, by G. E. Kidder Smith, recently published by the Architectural Press, London, and Bonniers, New York, at 45s. This book, like its companion volume, *Switzerland Builds*, published last year, deals with a country which came a few years late to the development of modern architecture, but which has completely surpassed its early inspirers. Swedish buildings, writes the author, may be " well built," beautifully detailed, colourful, and even playful, but *civilized* is the generic term for most modern work. Mr. Kidder Smith not only supports his statement with nearly 250 pages of photographs and descriptions of buildings, but gives a brief survey of the country and shows the part that climate, national temperament and architectural inheritance has played in making the Swedish architect concentrate on producing the highest general level of architecture in the world. headq There subject Old "

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T ho pie headquarters from April 13 to 28. There will also be a discussion on the subject of "Housing Needs for the Old" on the first day of the exhibition.

It is a commendable move on the part of the RIBA to call attention to this accommodation problem at a time when we are faced with a possible reduction in the building programme a reduction which might well restrict the building of old peoples' dwellings. Incidentally, my readers may be able to help the ABS in this matter. If you know of any interesting schemes or conversions for old peoples' homes of special interest, which have been undertaken recently, please get in touch with the Exhibitions Officer at 66, Portland Place, W.1.

One more point. In spite of your generosity the ABS is still a long way from its £50,000 mark. Those of you who subscribe annually may like to be reminded that you can nearly double your contributions at no extra cost to yourself if you covenant to make your contributions for seven years.

OH! I SAY; LOOK HERE!

Not many of my readers will take the trouble to get hold of a copy of FG/Press/4/50—a hand-out about the Battersea Festival Gardens — before visiting this amusement area. If they did so they would read the following about the main Vista (designed by Osbert Lancaster and John Piper):— "Although all the buildings are only temporary structures, they will be exciting and gay in appearance."

Well, that's all right; there's nothing there we need be ashamed of telling our Festival visitors from overseas. But this leaflet is prepared only for circulation to the Press. The Festival powers-that-be have something rather different up their sleeves for distribution to the public. In their prettily produced vellow and blue leaflet, containing similar information, they make the following statement about the main Vista: -- "Though only temporary structures, the buildings will be attractive and entirely original, in striking contrast to present - day architecture."

There's a difference, I feel, between honest humility and such a blatant piece of self-denigration.

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ASTRAGAL ·

The Editors

THE PROFESSION'S GAMBLE (2)

T first glance, the statement made on this page the week before last that architectural competitions are not attracting enough entries would appear to be refuted by the three-hundred-odd entries for The Builder's low-cost housing competition.. This figure certainly compares favourably with the thirty-nine entries for the Edinburgh University competition and fifty-nine designs submitted for the Nairobi city hall competition. However, it must be remembered that the subject for the competition is perhaps the most challenging and provocative one which could be presented. Probably more architects have been concerned with designing houses, during the last few years than ever before. What is more, house planning, despite its infinite variations and complexities, is, perhaps wrongly, considered a relatively easy subject. It is the deceptively simple puzzle which rests permanently in the back of the architect's minds until a challenge or irritant brings his full mental powers to bear and one more perfect solution is brought to light on the back of an envelope.

Considering, then, the energies which have been devoted to the subject, the number of entries (about 2 per cent. of the profession) does not suggest the enthusiastic response to be expected from a profession which is really satisfied with the competition system.

There are too few competitions, and there are too few entrants for them. That is a major problem for the profession to solve. The alternative, and signs of it can already be seen, is that the competition system will become the method of selecting only those works which are primarily sculptural, or of artistic content only, such as war-memorials, with the minimum of functional and structural complexities possible. The complex structures, with intricate planning and servicing problems, as things stand at present, will prove more and more unpopular as subjects for competitions. The competition system started when structural systems were comparatively simple and when, as H. S. Goodhart-Rendel pointed out in his recent talk at the RIBA, the average builder could build a house soundly guided by little more than eighth scale plans and elevations. Such days are over, but their influence remains, as can be seen in the average set of competition drawings. At a time when building and design problems have never been more complicated, when considerable research has often to be undertaken, and when close co-operation is called for between designer and builder, it becomes obvious that an architect cannot lightly enter for a competition unless he has great confidence in himself or in his ability to satisfy the assessors.

The problem of maintaining a satisfactory competition system hangs on three inter-related factors. First, ensuring a supply of buildings whose design can be satisfactorily solved by competitive methods. Second, as we said the other week, the elimination, as far as possible, of the "human factor" in 266] THE ARCHITECTS' JOURNAL for March 1, 1951

assessing. Third, the evolution of the method most economical in effort of presenting the competitors' knowledge and ideas. A possible first step towards solving the last problem may be the holding of two-stage competitions. The pros and cons of this system will be discussed at a later date.

No. 4: Technical Editor

REDUCING COSTS-ON PAPER

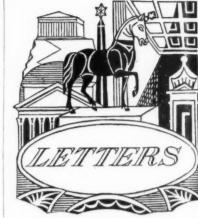
On pages 284 and 285, we review *The Builder* Low-Cost Housing Competition. The 322 schemes entered for this competition, which have been exhibited at County Hall, provide a measure by which can be judged the contribution which architects can make towards reducing the cost of houses and alleviating the housing shortage. On the whole, the designs confirm the contention, made by Grenfell Baines (JOURNAL, Dec. 7, 1950) that, by skilful planning, it is possible to reduce the floor area of a house by 20 to 25 per cent. and yet design a comfortable home for the average family of four or five. But it must be realized that this does not represent anything like a proportional saving in cost.

Few of the entrants tried to reduce cost by using unconventional building materials or methods, for the building industry in this country is not organized in such a way as to make non-traditional building economical. In order to keep within the $\pounds_{1,000}$ limit most competitors, besides cutting floor area, cut thermal and sound insulation standards, cupboard space and equipment generally. It has been emphasized time and again that to cut cupboard space is false economy, for wardrobes cost more than built-in cupboards, and that to cut thermal insulation raises fuel bills and wastes fuel.

In fact, most of the designs exhibited at County Hall were smaller, draughtier, noisier and more difficult to furnish than the houses most local authorities are building. On the whole the plans were better and, if the standard of insulation and equipment were improved, many of these designs would be better than the average council house, but they would then, doubtless, cost as much.

If this competition has proved anything, it has proved that academic exercises on paper cannot reduce the cost of building or solve the housing problem. The solution, unfortunately, depends on many factors which are not entirely under the architect's control—factors such as the general level of efficiency amongst building contractors, the supply of materials and the proportion of building labour allocated to housing (at present under 25 per cent.).

It was, however, interesting to note that nearly all the competitors specified the use of highly efficient heating and hot water appliances. This is very significant, for it is in the field of heating that research has been carried out most persistently and most successfully. It is encouraging to know that in this field, at least, architects are beginning to take advantage of the findings of their research workers.



(Ian M. Leslie, Hon. A.R.I.B.A. J. L. Womersley and G. Hopkinson, A/A R.I.B.A. G. L. Taylor

The £950 House

SIR,—So generous was the space devoted in your last issue to our Low-Cost Housing Competition results that you will not expect me to comment upon a matter of opinion raised in your leading article—that the assessors should have published reasons for their choice, other than to say that while MARS has made this suggestion, the RIBA Competitions Committee, so far as I know, has not accepted it.

I must, however, challenge the suggestion made in the same article that the prices given for the cost of building the houses shown in the competition designs "cannot be considered as more than approximate." In fact, the winners' full Bill of Quantities (for a house estimated to cost £950 at prices ruling at January 1 last) was checked by Mr. Edward Palmer, F.R.I.C.S.. of Gardiner and Theobald, and accepted without fault; in addition, reference to the winners' report in your possession will show that they hold a signed undertaking by a builder of repute to the effect that, subject to Ministry approval, he will erect 50 houses to the winning plans at £950 each.

Unless checked quantities and firm estimates are held to be meaningless, and a new genus of builder has been discovered, the estimate of cost must, I suggest, be accepted as correct.

London.

IAN M. LESLIE, Editor, The Builder.

SIR,—Whilst expressing our appreciation of your admirable reproduction of our design for the above we must, so far as our scheme at any rate is concerned, cross swords with you over the first of the two points you raise in your leading article on this Competition—" it must be realised that the designs are largely theoretical architectural exercises on paper"

We can assure you, gentlemen, that at our age, regrettable though it may be, we have neither the time nor the inclination for this sort of exercise. Our main object in entering this Competition was to take advantage of the inducement it afforded to prove to our Housing Committee that we could provide pleasant and healthy living conditions in a three-bedroom type house for £1.000 if we were freed from certain Government restrictions. We therefore produced two schemes—one was unplaced—which we felt we could wholeheartedly recommend our Committee

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to build irrespective of the results of the Competition.

Competition. These schemes were fully priced by the same independent Quantity Surveyor who carries out similar work on our housing programme of some 300 houses a year and his pricing was, in turn, checked by the Surveyor appointed by "The Builder." Further than this, however, as allowed by the Conditions, we discussed the schemes in detail with a local builder of standing, whose business is highly organized for renetitive business is highly organized for repetitive house-building. This Contractor worked out his costs entirely from his own standpoint and after completing his calculations gave us a written undertaking to build houses of this type, in contracts comprising at least 50 houses, at 4950 per house, based on rates obtaining at 31st December, 1950. Thus there still remains a not inconsiderable margin of £50 per house in hand.

We admit that the houses are still to be We admit that the houses are still to be built and the contractor's solvency at their completion to be proved, but short of this, we should be glad to know what further steps, gentlemen, you would have had us take to prove the realism of our case. Or, since you say the Assessors have not stated why we won the Competition, may we be so bold as to suggest that our essentially realistic approach to this vital problem possibly had something to do with it.

J. L. WOMERSLEY. G. HOPKINSON.

[With regard to Mr. Leslie's point on the Assessors' report, while agreeing that the assessors' are under no obligation to give their reasons, the RIBA does not specifically their reasons, the RIBA does not specifically prohibit them from doing so, and we feel that it is precisely this absence of detailed criticism which competitors find discourae-ing. With regard to the other points made in both the above letters, on the cost of building the houses, surely it is common throwledge in the profession that an estimate knowledge in the profession that an estimate based on preliminary drawings and an out-line specification, without full size details or a knowledge of the site, must include a number of provisional sums and cannot with certainty be considered a "firm estimate." As regards pricing by quantity surveyors, it is no criticism of them to say that their esti-mating cannot but exclude a rumber of factors known only to the builder.—ED.]

Edinburgh Competition

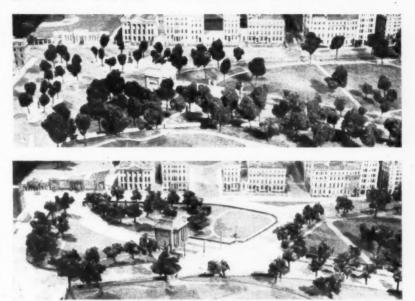
SIR,—As one of the unsuccessful I am interested in your report and editorial com-ment on the competition for Edinburgh University Medical School's extension (February 8 and 15) with which 1 heartily agree. I cannot venture to be democratic but I think as architects we take account of the obvious fact that only one can win and cheerfully accent the We take account of the obvious fact that only one can win and cheerfully accept the possibility of having an outside chance However, when the winning scheme is pub-lished it is comforting to the also rans to find that they have been outmatched by ingenuity and talent. In this case my re-action was one of estonishment which scenes action was one of astonishment which seems to be shared to some degree by others. Knowing that the accommodation could

only be fitted on the site with difficulty, one would suppose that the main concern of competitors and the assessor should have been the planning of a medical school. The winner's scheme does not solve this problem. In the fog of discussion about elevations this important point seems to have been overlooked.

I cannot agree with the assessor that the winning scheme is flexible. Its many diffi-culties can be overcome only by radical alterations to the design.

Rotherham.

RE-PLANNED HYDE PARK CORNER



The models above show Hyde Park Corner (top) as it is now, and (bottom) as it will be when the Ministry of Transport's long-term scheme for replanning has been completed. (See news note on page 269.)

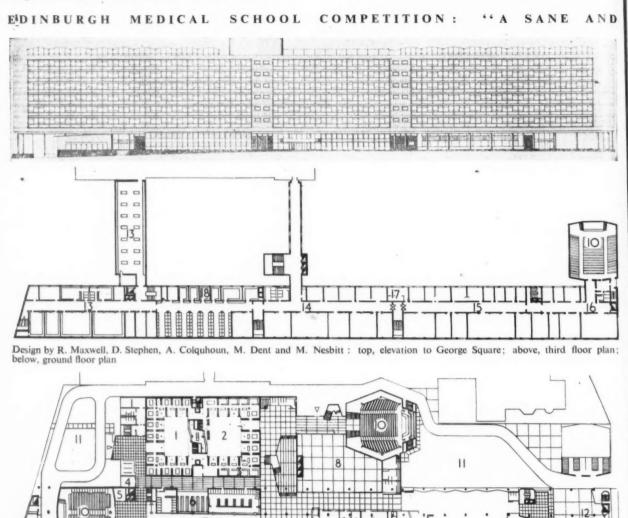
SHOWROOM IN SAVILLE ROW, W.1.

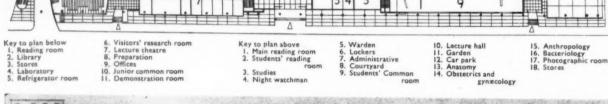


The new showroom of Partos (Brassieres), Ltd., 11, Saville Row, W.I, designed by Dennis Lennon. Furniture is by Scottish Furniture Manufacturers' Association. Colour scheme : ceiling, pale blue ; window walls, white ; other walls, grass paper and white paper with pink dots. Upholstery in various colours, defining groups of furniture. Wall lights, in metal, reproduce Partos Trade Mark, as do handles of drawers in table.

G. L. TAYLOR.







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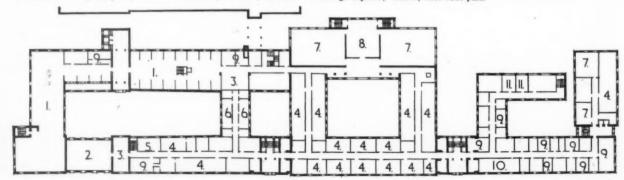
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First prize-winning design by W. N. W. Ramsay: above, elevation to George Square; below, first floor plan

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The design on the opposite page, top, was submitted in the recent competition for a medical school for Edinburgh University by R. Maxwell, D. Stephen, A. Colquhoun, M. Dent and M. Nesbitt. It was selected, as reported by ASTRAGAL last week, by the Edinburgh Students Architectural Group as a "sane and honest solution . . pleasant to work in," in preference to the design awarded the first premium, illustrated on the opposite page, bottom. These two designs show with startling clarity the wide divergence of viewpoint which still exists today on the relative emphasis to be given to the two essentials of architecture : functional efficiency and the asthetic content. In the winning design, the functional aspect tends to be subordinated to the asthetic standards demanded by its author. This is best illustrated by comparing the standards of daylighting. In the top design, the attempt to obtain as high a daylight standard as possible is a dominating factor which immediately precludes any attempt to group the buildings round a courtyard. In the winning design the standard of daylighting must be considerably inferior, particularly in those rooms, in the lower corners of the courtyards. Similarly in providing services, the top design, with vertical service ducts running alongside the central columns provides an economical and flexible solution considerably simpler than in the other design, where the services are carried in ducts behind false ceilings in the corridors. The policy for those drawing up conditions for competitions, as advocated by the JOURNAL, is that where possible the physical measurable standards of performance required should be clearly stated and that failure to conform to them should disqualify the design. The reduction of the "unknown factor" in conditions will ease the competitors problem, and increase the popularity of competitions.



RIBA ABS Exhibition

The Architects' Benevolent Society has just celebrated its centenary and hopes, when funds permit, to build and endow houses for its beneficiaries. The **RIBA** feels this is, therefore, a suitable time to have on view an exhibition designed to show the progress made in providing accommodation for old people. The exhibition will be on view at the RIBA, 66, Portland Place, W.1, from April 13 to 28.

On the first day of the exhibition a dis-cussion meeting on "Housing Needs of the Old" will be held at the RIBA under the chairmanship of H. S. Goodhart-Rendel. The speakers will include Sir Edward Bligh, chief officer of the welfare department of the LCC; Mrs. M. M. Hill, chairman of Hornsey Housing Trust and of Hill Homes; and A. Llewellyn Smith.

The Institute hopes that the meeting will be well supported by architects as it hears that representatives from many of the bodies concerned with housing old people are in-tending to be present. Those wishing to tending to be present. attend may obtain tickets and programmes free on application to the secretary, RIBA, 66, Portland Place, W.1. Envelopes should be marked "Housing Needs of the Old." See also ASTRAGAL'S note on page 263.

MOT The Re-planning of Hyde Park Corner

The photographs on page 267 show models of Hyde Park Corner as it is today and as it will be when proposed reconstruction has taken place. MOT call this a long-term policy

Before reaching Wellington Arch at the top of Constitution Hill the road will be diverted to the left to join Grosvenor Gardens, taking in a narrow strip on the edge of Buckingham Palace grounds. The archway will no longer be passed by traffic-except on State occasions-and will stand in an area of lawns and trees.

The existing carriageways through Apsley Gate will be closed and a new two-way road will appear in the gap made by bombing between the houses at the top of Piccadilly. •This road will lead to a large grass-covered roundabout in Hyde Park.

Beyond the new road at Hyde Park Corner the carriageway will curve to the right, leav-ing a green triangle on the left in front of Hamilton Place, the houses facing Hyde Park Corner at this point having a service road which will be a cul-de-sac. Park Lane will become a one-way street

from north to south and the new road from

Hyde Park Corner will lead to the present ring road through the park, which will become one-way from south to north. Between these carriageways will be a wide These strip planted with trees and flowers. alterations will be made at the expense of Hyde Park itself, the boundary of which will be set back behind the ring road.

LESSOR SCHEME No New Plans Authorized

The position regarding the building-lessor The position regarding the building-lessor scheme (a scheme which, as readers will remember, was severely criticized by J. M. Richards in the JOURNAL last March) is under review at the moment according to Richard Stokes. In a written answer to H. Hynd, who asked if the Minister of Works was aware of the disadvantages associated with the building-lessor scheme, Mr. Stokes stated that nearly all these schemes were planned in order to release requisitored accommodain order to release requisitioned accommodation as quickly as possible. He was aware that they had certain disadvantages and no new schemes were being authorized. The position was under review, having regard to the needs and effect of the defence programme.

NATIONAL PARKS Snowdonia Designation Order

The Chairman of the National Parks Com-mission, Sir Patrick Duff, has signed the Snowdonia National Park (Designation) Order. In the last six weeks two other Orders, one relating to the Peak District and the other to the Lake District, have been signed.

The effect of the Order is to constitute the land to which it relates a National Park. The Order is about to be submitted to the Minister of Local Government and Planning for confirmation.

The area, the boundaries of which are subtantially those proposed in 1947 by the Hobhouse Committee on National Parks, comprises approximately 837 square miles situated in the Counties of Caernarvon, Denbigh and Merioneth.

DIARY

The Architecture of Transport. Exhibition at the RIBA, 66, Portland Place, W.1, show-ing projects in this country and a selection of material from abroad. Weekdays 10 a.m. to 7 p.m. Saturdays 10 a.m. to 5 p.m. MARCH 22

Structural Use of Timber in Building. A Structural Use of Timber in Dunung. A course of six lectures by D. H. Moss. At S.E. London Technical College, S.E.4. March 2 and five following Fridays. 7 p.m. to 9 p.m. MARCH 2 to 9 p.m.

The Festival of Britain Exhibition and the South Bank Scheme. J. C. Ratcliff, At Royal Society of Arts, John Adam Street, W.C.2. (Sponsor, IRA.) 6.30 p.m. MARCH 2

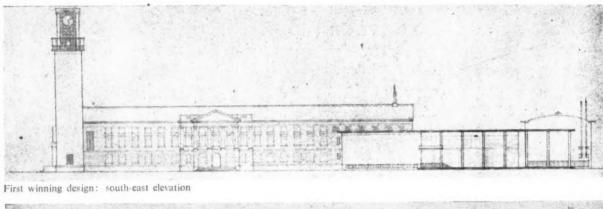
Special Treatment for Portland Cement Concrete, C. L. a'Court. At 11, Upper Belgrave Street, S.W.1. (Sponsor, ISE.) MARCH 8 6 p.m.

The Engineer and the Public. Discussion opened by H. Nimmo, At Caxton Hall, Caxton Street, S.W.I. (Sponsor, The Engineer, Guild) Caxton Street. Engineers Guild.) 6 p.m. MARCH 8

"The Builder" Competition for a £1,000 house. Talk by A. W. Kenyon. Chairman, J. H. Forshaw. At the Housing Centre, 13, Suffolk Street, S.W.1. 5.30 p.m. MARCH 6

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WINNING DESIGNS IN COMPETITION FOR CITY HALLS



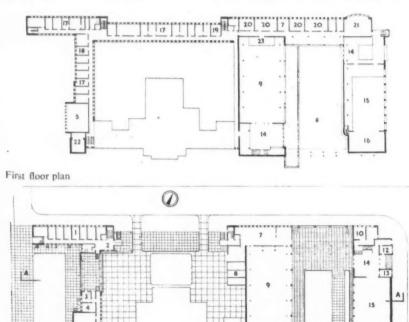


Section A-A

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	Municipal offices	13. Speakers
2.	Staff entrance	14. Foyer
3.	Magistrate	15. Assembly hall
4.	Clerk	16. Stage
5.	Courtroom	17. Offices
6.	Entrance and waiting hall	18. Clinic 19. Laboratory
7.	Kitchen	20. Committee rooms
8.	Vehicle ramps	21. Main committee room
9.	Banqueting hall	
0.	Cloakrooms	22. Tower
11.	Post	23. Musicians' gallery
12.	Press room	24. Gallery

On February 15, a site plan and elevations of the first (£550) prize-winning design (by C. A. Levick, P. H. Connell and L. T. Croft, of Durban, South Africa) in the competition for a civic hall at Nairobi, appeared in the JOURNAL. This week plans and elevations of the three winning designs (which have been specially re-

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First winning design ; ground floor plan

J. B

drawn) are published. The assessor, L. W. Thornton White, who was assisted by H. R. Bridger and H. Thornley Dyerand later by S. C. Lock, who took the place of Mr. Dyer when he resignedmade the following report :-- " In addition to the problems involved in providing a satisfactory disposition of the accommodation required, all competitors, as is clear both from their designs and reports, considered very seriously (a) how best to relate the existing town hall to the new work (either by isolating it in contrast to, or linking it in harmony with, the new work); (b) how best to give the scheme a distinctive character taking full account of the temperate tropical climate of Nairobi, and (c) how best to dispose the several entrances to the site, both for pedestrians and cars, taking full account of the effect of the new East African Highway upon the future movement of traffic in the vicinity. I have no hesitation in awarding the first premium. This design is a distinguished piece of work. It not only solves all the problems involved in a simple, straightforward and imaginative manner, but it takes pains to integrate the present town hall and the new work, and in doing so corrects some of the asthetic

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THE ARCHITECTS' JOURNAL for March 1, 1951 [271

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OFFICES AT NAIROBI, SPONSORED BY CITY COUNCIL AND

faults of the present building, without adding a single room having the present unsatisfactory fenestration or proportion. The scheme places the banquet hall immediately to the east of the present building, with the assembly hall on the Eliot Street frontage. Between these two main halls is a garden and system of partly covered terraces open both to Queensway and Fourth Avenue, controlled at both ends or left open as a public amenity at will. The covered terrace forms a spacious and 'tropical' setting for the congregation of diners for refreshment before a formal banquet—an essential preliminary to a successful banquet which some competitors ignored. The two halls are well proportioned and though similar in bulk, through subtle contrasts in window systems, balconies and supporting columns, they are quite different in character. Both are well designed acoustically, and well disconnected structurally to avoid noise

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KEY

I. Fover

3. Kitchen

7. Terrace

II. Courtroom

8. Pool

2. Assembly hall

H. Entrance hall

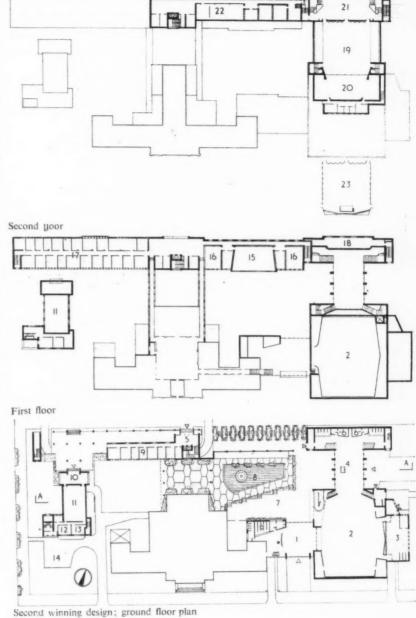
5. Staff entrance

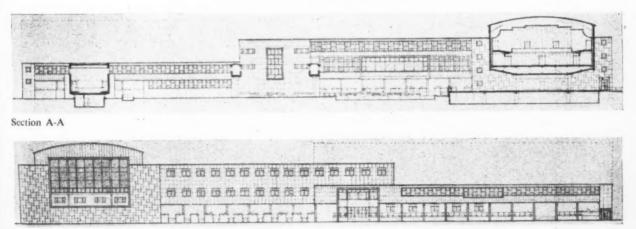
9. Municipal offices

10. Entrance and waiting hall

E. Cloakrooms

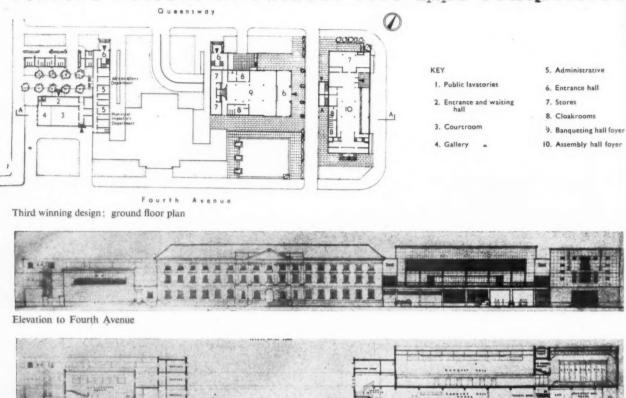
- 12. Clerk 13. Magistrate 14. Car park 15. Main committee 16. Committee room 17. Administration 18. Ventilation duct 19. Hall 20. Stage 21. Entrance fover
 - 22. Tea room 23. Banqueting hall





Second winning design; elevation to Queensway

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Section A-A

nuisance from one to the other. The new municipal offices are efficiently arranged on two floors, and those rooms which are to be temporarily used by the legislative council are so placed that they form a natural extension to the offices, the committee rooms being at the same level as, and convenient to, the present council chamber and committee room. The large committee room is well placed so that it need not be altered in converting the suite to council use. The magistrate's court is ideally placed at the west end of the site, with a large garden reasonably private for visitors, and moreover with a covered area for waiting in inclement weather. The public lavatories are conveniently placed. The court garden is linked through a colonnade to a formal garden at the back of the present building and is in turn connected through an open colonnade to Queensway. The author arranges for future offices to be built in two floors over the new offices. A third floor of future extensions, though not shown on the design, could readily be added within the limits of height. I am satisfied that the scheme can be built within the stipulated 10 per cent. of the cost limit, on the basis of prices at the time of publication of conditions. Of the second winning design (£450) by A. Ball, of London, the assessor wrote : " This, too, is an excellent scheme, compact and highly imaginative. The general disposition is similar to that of the first design, except that the assembly hall is very cleverly placed partly over the low banquet hall. In some details however it does not show the same maturity as the first award scheme; the kitchen and service entrance are exposed to the Eliot Street frontage, the pavement on Fourth Avenue is interrupted by two ramps to the basement, and the offices section is not so flexible in use or in extension. The scheme, none the less, has very great merits, particularly in its open character and in the architectural quality of its sections and elevations. It has all the quality of a winner and in a less hotly contested or less successful competition it might well have gained a first premium." Of the third winning design (£250) by R. S. Cobb, H. D. Archer and A. G. Scammell, of Nairobi, the assessor wrote : " In this scheme, too, the general disposition agrees with the two previous designs. The banquet and assembly halls are placed at the first floor level, with generous foyers below and with car access to the banquet hall within the site itself. The advantages of this arrangement are offset to some extent by a multiplicity of staircases, committee rooms on a second floor and by suites of offices which though conveniently situated will not develop their full convenience until one floor of the future extensions is built. While the scheme has an excellent terrace, it lacks the garden court amenities of the first and second premiated designs."

WINNING DESIGNS IN NAIROBI CI[®]TY HIALL COMPLETITION

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The Architects' Journal for March 1, 1951 (273

FLATS

on the HARTSHOLME ESTATE, LINCOLN designed by P. F. BURRIDGE, CITY ARCHITECT Deputy (Housing) Architect B. WOODIWISS

The five blocks of flats illustrated here form part of a housing estate of 700 dwellings just within the City boundary. Dwellings on this estate were required for aged couples and adult families of up to four persons who did not want their own private garden, and this also gave the opportunity to relieve the monotony of too many two-storey houses in the scheme. There are trees around the perimeter of the site, except to the south, and the area has been left unfenced.

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ced · it ie; reet two ible reat iral of a tion ing ell, eral uet rous the t to oms ntly r of lent and South facade of one of the blocks:



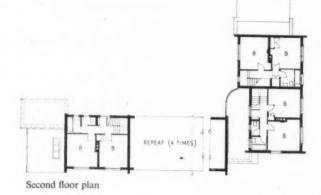
274] The Architects' Journal for March 1, 1951

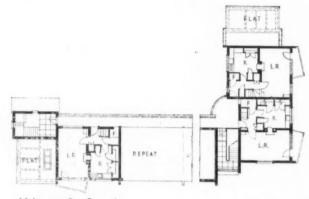
SITE.—The site is quite flat and occupies the north-west corner of the large Hartsholme estate. Behind the fine belt of trees on the western boundary there is extensive permanent parkland with a lake. Around the flats the ground is being laid out with paths and grass and left entirely open.

PLAN .- The five blocks are set to give a southwest aspect to the majority of the rooms, overlooking the best view, and the balconies, each of which is large enough to accommodate two deck chairs, are designed to take advantage of this view. The L-plan for each block was chosen mainly to reduce the common circulation space to a minimum. Maisonettes over flats were adopted so as to bring all living rooms and kitchens within one storey of ground level. It is said that a greater degree of privacy than usual has been achieved, here; the only windows overlooking the access balcony are built at a fairly high level and glazed with obscured glass. With the exception of the ground floor kitchens, all living rooms, bedrooms and kitchens face south-east or south-west. Each maisonette has, in one or other of the ground floor outbuildings, a store capable of housing a bicycle, small bench, etc.

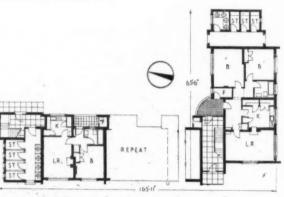
on the HARTSHOLME' ESTATE, LINCOLN designed by P. F. BURRIDGE, CITY ARCHITECT

FLATS





Maisonette first floor plan

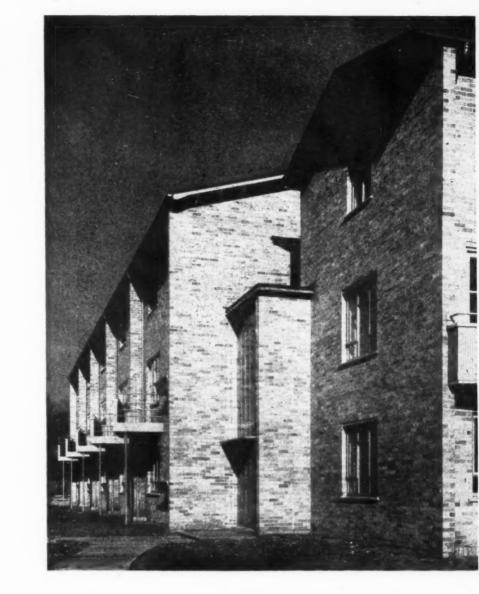


Typical ground floor plan [Scale : #"=1' 0"]



West facade of typical block from the northern edge of the site.

Site



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TREE BELT AND PARKLAND

CONSTRUCTION.—External walls and party walls between flats are of 11-in. cavity brickwork. There are load-bearing internal walls and partitions of hollow blocks. Roofs are of 7-in. by 2-in. purlins carried on cross and party walls. Ground floors are of concrete, first floors of precast concrete beams, and second floors of normal joist and board construction.

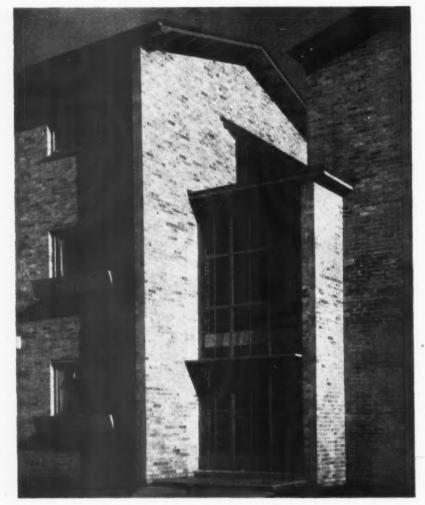
FINISHES.—The ground floors have "asbestic" floor tiles in living rooms and halls, boards on battens in the bedrooms and quarry tiles in kitchens. First floors are finished with battens and boards and a glass silk blanket. Balconies have asbestos tiles on built-up bitumen roofing. On the roofs, wood wool slabs are nailed direct to the purlins and finished with built-up bitumen felt with a green mineral finish. Windows are standard and special

Looking north at the junction of the long and short wings, with the west facade of the long wing on the left.

Site plan

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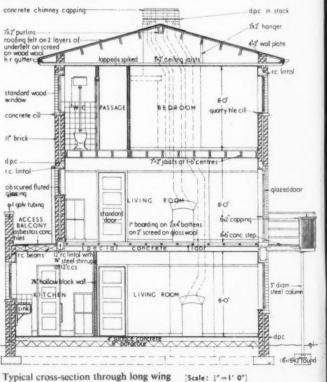
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FLATS

on the HARTSHOLME ESTATE, LINCOLN designed by P. F. BURRIDGE, CITY ARCHITECT

EJMA casements with precast concrete heads and cills. Flower boxes are of precast concrete treated with cement paint. Facing bricks are 25-in. mixed golden brown rustic wirecuts. Windows are painted eau-de-nil; railings, downpipes and asbestos balcony facings, light battleship grey; soffits and entrance doors, pale cream. Internally all halls, living rooms and bedrooms are plastered and finished with washable distemper in pastel shades. All kitchens and bathrooms have been decorated with oil paint and washable distemper. Walls of communal entrance halls are of fair-faced brickwork and concrete stairs have a granolithic finish sprinkled with carborundum. One bedroom in each flat and maisonette has a built-in cupboard. Kitchens have built-in cupboards and gas drying cabinets.

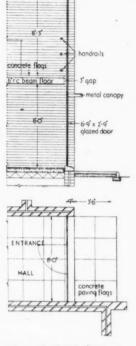


Section - [Scale: :"=1'0"]

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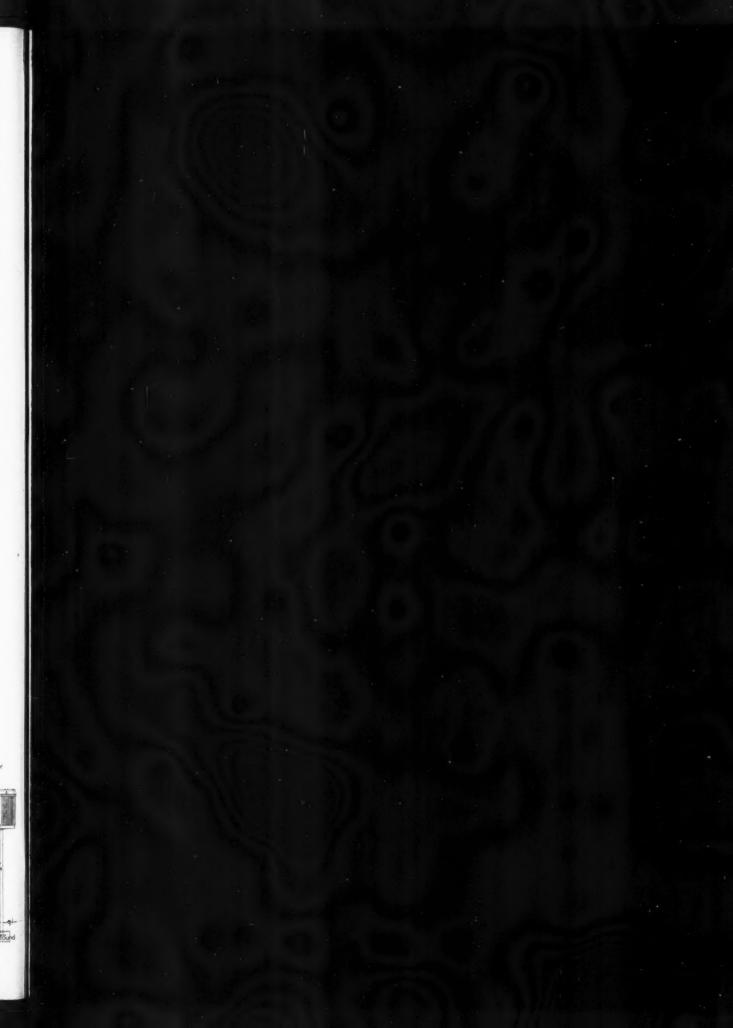
rc beam roof covered with roofing felt on underfelt on

screed



Plan of glazed front to communal stair

Left, the glazed staircase window, which forms the link between the long and short wings.





WALL FITMENT: HOUSE AT HANOVER, NEW HAMPSHIRE E. H. and M. K. Hunter, architects

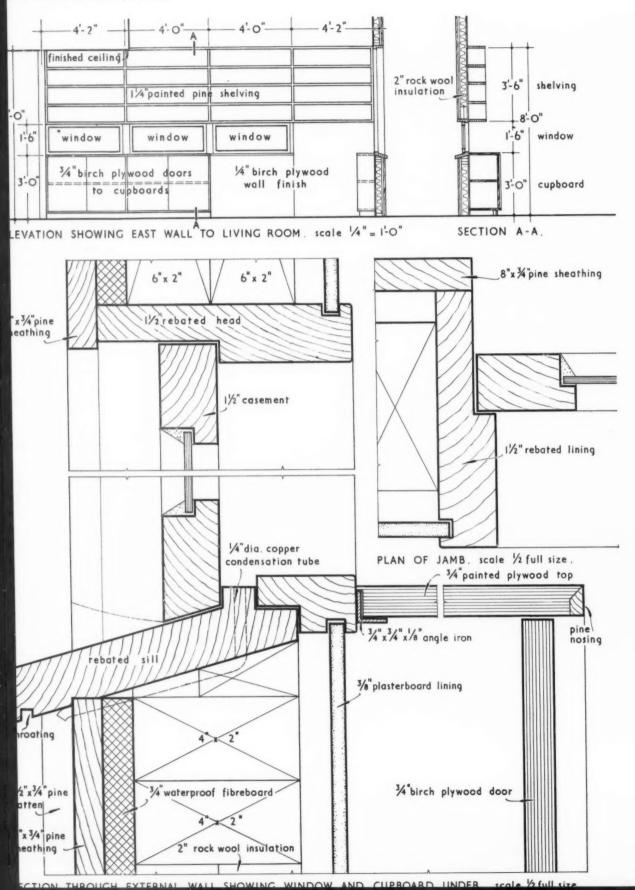


The lighting from the main window wall of the living room is supplemented by strip windows under the book shelves.

FURNITURE AND FITTINGS : 1

WALL FITMENT: HOUSE AT HANOVER, NEW HAMPSHIRE

E. H. and M. K. Hunter, architects

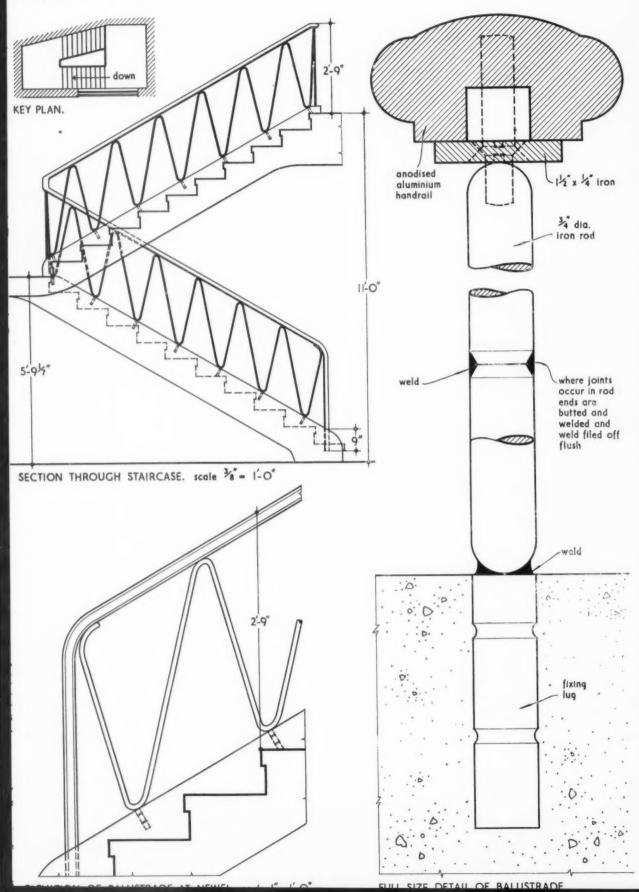


BALUSTRADE: AIRCRAFT BUILDINGS AT FILTON Eric Ross, architect

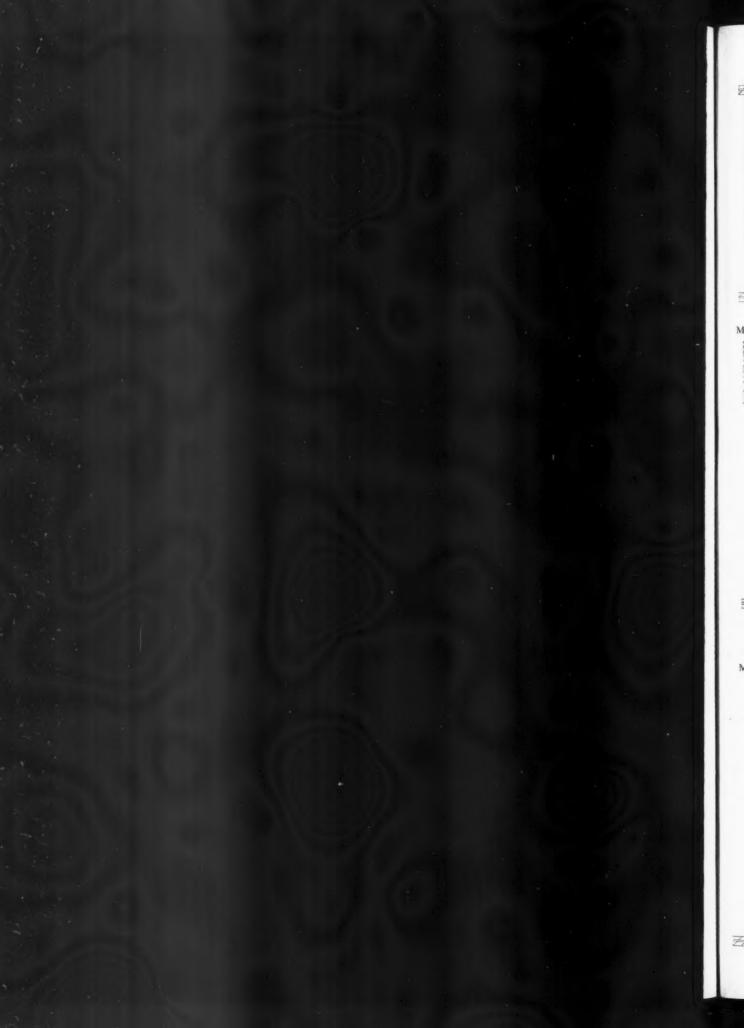


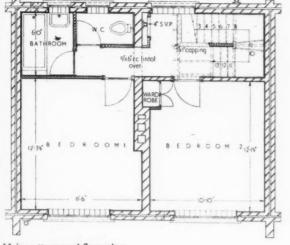
Any joints in the iron baluster are welded so that it appears as one length supporting the anodised aluminium handrail.

BALUSTRADE: AIRCRAFT BUILDINGS AT FILTON Eric Ross, architect

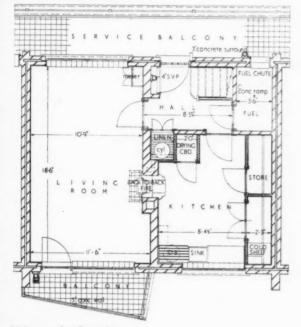




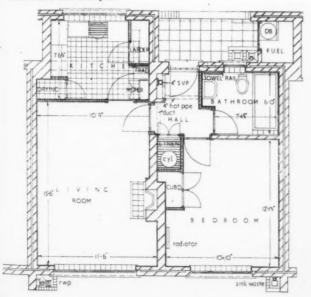




Maisonette second floor plan



Maisonette first floor plan





General view looking west.

SERVICES.—Ground floor flats have an open fire with back boiler in each living room for hot water and for heating radiators in the bedrooms and kitchens and for towel rails in the bathrooms. In the maisonettes, back-to-back fires are provided. Refuse chutes were considered neither necessary nor advisable, and domestic refuse bins are provided under cover adjacent to the stores. Vertical ducts with removable panels take all service and soil pipes internally.

The contract price (excluding only seeding and planting) was $\pounds 82,756$, or 28. $3\frac{1}{2}d$. per cub. ft.

The general contractors were M. J. Gleeson, Ltd. For list of sub-contractors, see page 290.

Typical ground floor flat plan [Scale & -1'0']

> Looking north, with the access balcony to the first floor maisonettes on extreme left.



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For the fifth of our series of discussions we have chosen, for the first time, a scheme designed by a City Architect of a provincial county town. Many architects are engaged on relatively small jobs of this nature, and the following discussion shows that many controversial points can arise in work of this kind. The A.7. editors can be identified by reference to the front page of the JOURNAL.

FLATS T LINCOLN A Discussion between the Architects and the Editors

TWENTY: What family composition do the maisonettes cater for ? Surely for any family larger ^than husband, wife and one child it does not provide wholly satisfactory accommodation. What do parents do if they have a second baby? It should not sleep with the other child, or with the parents, or in the living room.

ARCHITECTS : You are raising the whole question of the need for two-bedroom dwellings. The Ministry of Health has, we believe, supported the view expressed in the Second Girdwood Report that a preponderance of three-bedroom houses is not necessary and that a much greater proportion of the two-bedroom type should be erected. Local Housing Authorities, in our experience, support this view, particularly as the greater proportion of their applicants are childless couples or families of three. The problems created by the growing family and the segregation of the sexes are not new and when a family outgrows its home it can be transferred.

TWENTY : Don't you think that 820 square feet is rather extravagant accommodation for three people? Some of the three-bedroom flats recently built in London provide adequate accommodation for five people with a floor area under 900 sq. ft. ARCHITECTS : You should remember that these are two-storey maisonettes not flats. The floor area, taking into account storage, is in accordance with Housing Manual Standards and is no different in this respect to other family dwellings being erected in Lincoln.

TWENTY-THREE : Surely the thermal insulation value of the external walls is rather low. Why did you not use light-weight concrete blocks for the inner skin? This is becoming quite common practice.

ARCHITECTS : We estimated that alternative materials for the inner skin, such as foamed slag, would have put about one shilling per square yard on the cost of the external walls. An unventilated cavity brick wall does, of course, achieve the minimum insulation standard laid down in the Housing Manual.

TWENTY-THREE : That isn't a particularly ambitious standard. In some parts of the country, light-weight concrete works out cheaper than brick -breeze certainly does.

ARCHITECTS : All the external walls are loadbearing and, in any case, there is a great deal of prejudice against breeze in Lincoln.

TWENTY-THREE : That is a pity. There are now available some very good breeze blocks which have overcome the old snags which gave breeze a bad name.

ELEVEN : Why did you use precast concrete beams for the first floor and timber joists for the second floor? Which do you find cheaper ?

ARCHITECTS : We find timber floors cheaper, but the bye-laws require a fire-resisting floor between the ground floor flats and the maisonettes, as they are two independently occupied dwellings.

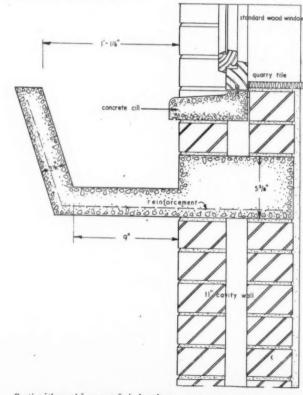
ELEVEN : And why did you use boards on battens for the first floor finish instead of the "asbestic" tiles you used on the ground floor ?

ARCHITECTS : When we designed the buildings, there was a strong local demand for wood floor finish wherever possible. Recently, the advantages of alternative materials have been appreciated by the tenants and "asbestic" tiles are now being used on most solid floors.

FOURTEEN : How is the second bedroom of the maisonette to be warmed?

ARCHITECTS : It is standard practice in Lincoln, and, I think, usual in most municipal housing projects, except where central heating is used, to provide the main bedroom with a space heating appliance but to leave the tenant to provide a portable electric fire for the other bedrooms.

EIGHTEEN : Surely it is no saving if the Council omits something and the tenant has to put it in.



Section through concrete window box [Scale: 1]" = 1'0"]



Concrete window boxes outside ground and first floor windows.

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ARCHITECTS': From the national point of view that is true, but we try to keep the rents down to a reasonable figure and to do that we have to draw the line somewhere-in this case, at the electric fire for the second bedroom.

FIFTEEN : All the bedrooms in the long wing face west. Do you advocate this?

ARCHITECTS : We do in this particular case since we considered the view rather important. From all the windows facing south-west can be seen the tree belt to the adjoining park.

EIGHTEEN: It seems logical that the private balconies on the west facade should widen out towards the south and it is also pleasant in appearance, but on the south facades it seems unfortunate that the wide, open ends should face each other.

ARCHITECTS : We agree-you have picked on one of our own criticisms-we regard this as a fault we would adjust.

TWENTY : Why do the brick cross walls protrude on the west facades? Is this done for constructional reasons, or to act as a light baffle, or for purely decorative reasons ?

ARCHITECTS : 'It is introduced primarily to give privacy to the living rooms from the balconies of the adjacent maisonettes. It also has some structural value. The outer skin of the brickwork is not restrained (except by the wall ties) for a clear length of 120 feet. The projections greatly increase its rigidity.

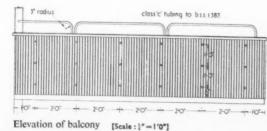
TWENTY-THREE : Would your local by-laws have permitted such a long wall without this additional restraint ?

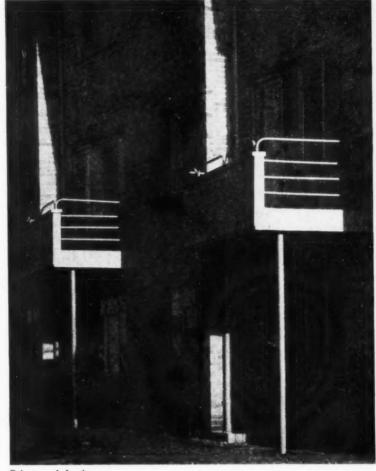
hores first

> ARCHITECTS : Yes, but we would not have felt very happy about it.

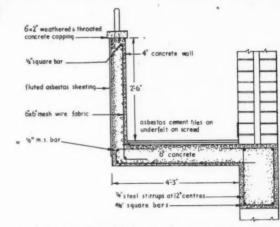
> TWENTY : Although it is not apparent from the photographs, when we were on the site we noticed that the colour and tone of the bricks varied, not only from one block to the next, but even within a single block. Why was this ?

ARCHITECTS : We had very bad luck with brick deliveries. The manufacturer of the bricks selected was unable to maintain deliveries to schedule after the work had started and two blocks had to be built in a different facing brick. Furthermore, there were never sufficient bricks on the job to permit stacks being mixed or for reserves to be put to one side for completing the access balcony parapets which were built at a later stage. It would help if bricklayers and their labourers were a little more co-operative; we think that they can do a lot to make or mar a building's finish.

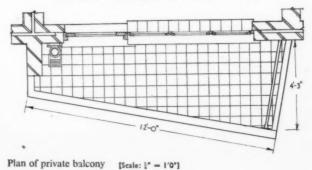








Cross-section through balcony [Scale:]" = 1'0"]



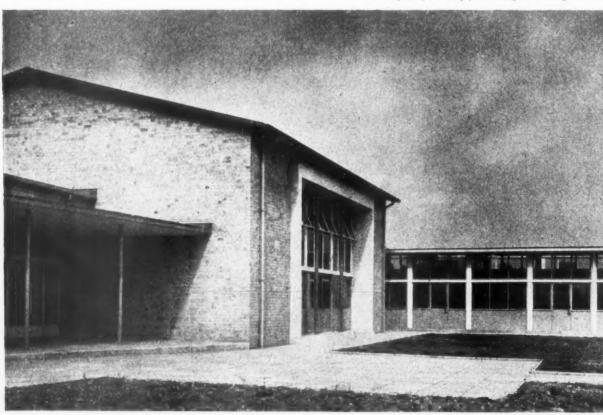
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PRIMARY SCHOOL

at DAGENHAM, ESSEX designed by H. CONOLLY, COUNTY ARCHITECT Assistant Architect, J. T. BELL

The primary school at Becontree Heath, Dagenham, near the Civic Centre, was designed for 240 infants and 320 juniors of both sexes, with dining accommodation for 500. The site is level and covers an area of $7\frac{1}{2}$ acres, bounded on the south and west by a new housing estate and on the north by cottages, which will eventually be replaced by further civic buildings. A position in the north-west corner of the site has been allocated for a future nursery school.

Assembly hall, on the left, and dining hall looking northwest.



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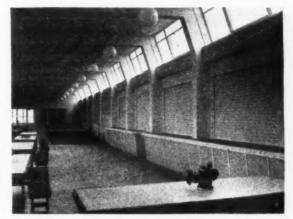
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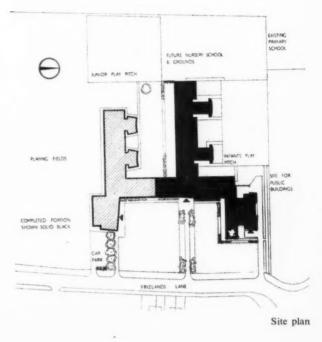


Above, typical infants' classroom. Above right, the dining hall and servery. Below right, terrace and south facade of infants' classroom wing, showing windows to general purpose room.

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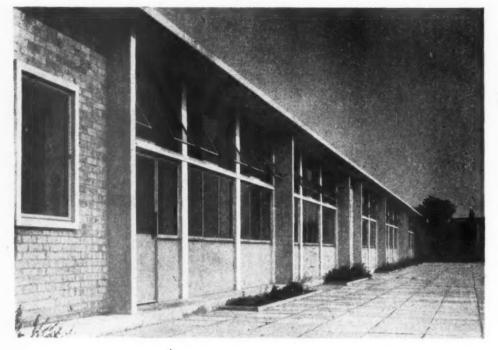


PLAN.—The completed school will have an irregular H-shaped plan, with a south aspect for classrooms and dining hall. At the time building began, only part of the site was available; consequently the infants' wing had to be built to the north of the two-storey junior classrooms. The staff accommodation and assembly hall join the junior and infant departments and face east.

CONSTRUCTION.—The building has a pre-cast concrete frame with brick panels faced with primrose facing bricks. Roofs are of pre-cast concrete.

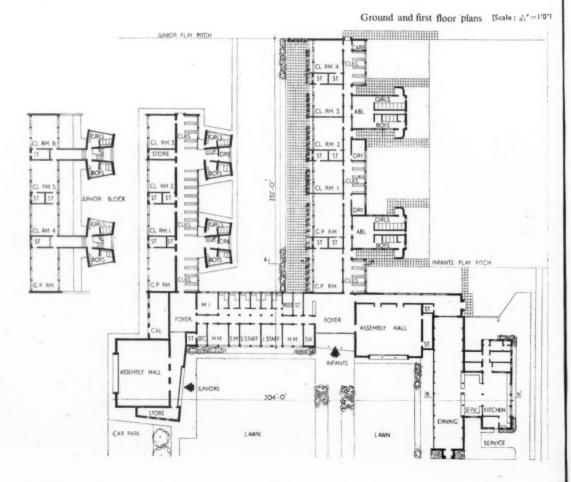
FINISHES.—There is a white artificial stone trim and roofs are covered with wood wool insulation and bituminous felt. Metal window casements are fixed direct to concrete roofs and frames. Internal walls of classrooms and staff rooms are finished with hard plaster and elsewhere with a cement glaze. The concrete frames are unrendered and finished with lightly stippled off-white plastic paint. Walls are coloured grey, olue or cream. Externally, the colour scheme is willow green and white, with the concrete frame rendered white to match the artificial stone trim. Paths and terraces are of multi-coloured concrete paving to reduce glare. Flower beds are to be laid beside paths and on the edge of the terraces, with lawns between the teaching blocks.





PRIMARY SCHOOL

at DAGENHAM, ESSEX designed by H. CONOLLY, COUNTY ARCHITECT



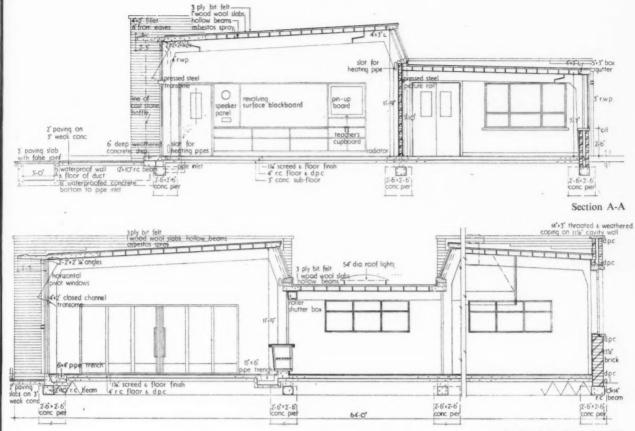
Infants' classroom wing and terrace, looking north-east.

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Section B-B [Scale : #"=1'0"]

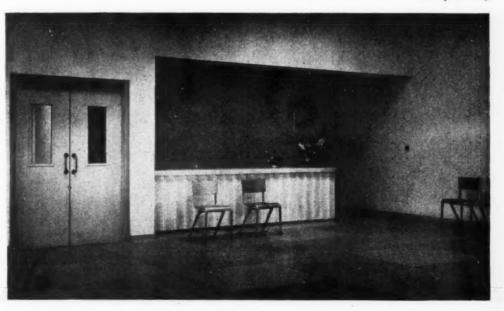
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and

SERVICES.—Hot water supply and heating are provided from the district heating scheme which serves the adjoining housing estate.

The general contractors are Edward W. Smith (Romford), Ltd. For list of sub-contractors, see page 290.

Entrance hall to the infants' wing.



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INFORMATION CENTRE . INFORMATION SHEETS QUESTIONS AND ANSWERS . CURRENT TECHNIOUE THE INDUSTRY . PRICES . TECHNICAL ARTICLES

TECHNICAL SECTION

The 322 entries for "The Builder " Low-cost Housing Competition were on view last week at County Hall, Westminster. (The prize-winning designs were illustrated in last week's JOURNAL.) No revolutionary developments have been revealed, but the plans indicate that many architects are now giving serious thought to what is probably the most difficult building to design -the small house. Following is a report on the designs exhibited.

"THE BUILDER" LOW-COST HOUSING COMPETITION

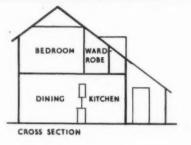
There was nothing outstanding to be seen at There was nothing outstanding to be seen at this exhibition with regard to economy in materials; the majority of the designs are on traditional lines, but it was noticed that the clinker concrete block is used in many cases as an inner lining. This was recom-mended in the first edition of the Housing Manual and represents an obvious economy which explicate the provide a base time to which architects have taken a long time to recognize.

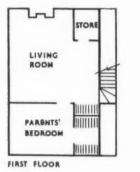
CONSTRUCTIONAL DESIGN

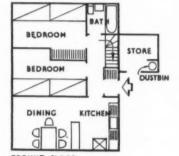
The walls in these designs are not on the whole very interesting. It was sad to see in how many cases the cavity party wall has been sacrificed in the interests of economy, and rather interesting to note that the three winners have abandoned the cavity party wall.

Most entrants used traditional roofs, though a few introduced innovations. The flat roof can, of course, be a cheap method of construction for the architect who will brave its unpopularity. But it must be realized that the cheaper flat roof coverings require periodical maintenance, which is not always an acceptable condition. There is a curious compromise in a number of entries; these feature a low pitched roof with bitumen felt or similar coverings. This seems to be an attempt to take advantage of the economy of a flat roof while retaining something of the appearance of a pitched roof. Like most hybrids, it does not achieve either of these objects. A curious form of construction, which appears in several schemes, is a low pitched roof with the ridge running from the back to the front of the terrace, with gutters over the party walls (see Fig. 6). This is an extraordinarily bad form of con-struction from the point of view of mainten-ance and there seems to be no justification for it on the grounds of economy.

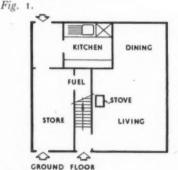
A few architects used a steeply-pitched roof















Figs. 3a.

and tried to fit the first-floor rooms into it. Few were successful; most of these designs were ugly. However, one design of this type (see Fig. 1) was rather ingenious. It avoids the use of dormers, except for one over the staircase, and the roof is carried down over a small outhouse. The plan, too, is unusual and is described below.

The total labour content in the normal house represents only about $\frac{1}{2}$ of the total cost, so there is not much room for economy in this direction. Perhaps that is why there were very few schemes submitted which sug-gest any appreciable economy.

The constructional design of the winning entry is entirely conventional, the only innovation being the use of precast eaves blocks. The winner of the second prize uses con-crete blocks throughout, except for the ex-ternal skin of the cavity wall. His drawings show a raft foundation; the use of this may show a raft foundation; the use of this may be a risk with most building contractors. He uses a flat roof of 2-in. wood-wool slabs covered with bituminous felt, but it is diffi-cult to understand why such a light roof needs RC beams at 2-ft. centres for its sup-port. The design placed third is constructed of 6-in. hollow clay blocks. This is an eco-nomical form of walling and the architect proposes to increase its insulation value by proposes to increase its insulation value by using what he calls "vermiculite loaded plaster." In order "not to overload these hollow blocks," once again quoting the architect, "the floor loading (is) carried by spanning the floor joists from party walls to a 4-in. block partition half way between them." Not only is this bad on the grounds of sound insulation, but reference to the drawings shows that the partition is only 6 ft. $\tilde{9}$ in. long and some sort of beam would be required over the remaining 7 ft. 6 in., bearing, after all, on the hollow block external wall!

PLANNING

One of the most interesting features, found on many of the plans, is a large store or utility room situated at the front of the house. This is intended for the storage of bicycles, pram, fuel and dustbin and to serve as a small workshop. It eliminates the need for an outhouse or the gloomy tunnels, commonly associated with terraced houses, without involving the expense of an access need bic constructed of the race of the road being constructed at the rear of the sites.

In many of the designs the kitchen is placed at the rear of this store and in some cases is only partially separated from it (see Fig. 8). In these cases the living room (few designs have two) runs from front to rear; the rear portion, adjacent to the kitchen, being the dining area (see Fig. 2). In some designs the entrance opens directly on to the living room, and the staircase rises from this room. This type of scheme would, of course, necessitate the use of some form of draught excluder around the front door, but the main snag would be that the housewife, when in the kitchen, would have a long walk through the living room to the front is only partially separated from it (see Fig. when in the kitchen, would have a long walk through the living room to the front door (the design placed third is of this type). An alternative, chosen by a number of architects, is to put the kitchen at the front too, and to have the living room running across the rear of the house. Such a living room does not, of course, have cross ventilation. Most architects who chose this type of plan found it difficult to compose an attractive front elevation in their placing of the doors and the windows to the kitchen and store

A third alternative is the use of a small internal passage to a utility room at the rear of the house.

THE WINNING DESIGN

The first winning design has the utility room at the rear, but no access passage. Although this house has four entrances, all sources of draught and heat loss,

WATERPROOFED CEMENT DAMP COURSES AT THE KING GEORGE V HOSPITAL, MALTA, G.C.



Adams, Holden & Pearson, FF.R.I.B.A., Architects

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John Laing & Son, Ltd., Contractors

N opening this merchant seamen's hospital, Lady Mountbatten said: "I have been astonished at the fine job that has been achieved in spite of difficulties, of shortages and other problems." The reason for this highly successful outcome was made plain by J. W. Laing, who, at this same ceremony, described the pleasure which arose from the enthusiastic co-operation of all who had been concerned with the design and execution of the work. It is seemly that protection against ground dampness has been provided by the use of 'PUDLO' Brand cement waterproofer because the merchant navy carried supplies of this pioneer British waterproofer in the convoys which, with their escorts, fought their way to Malta through the Mediterranean.

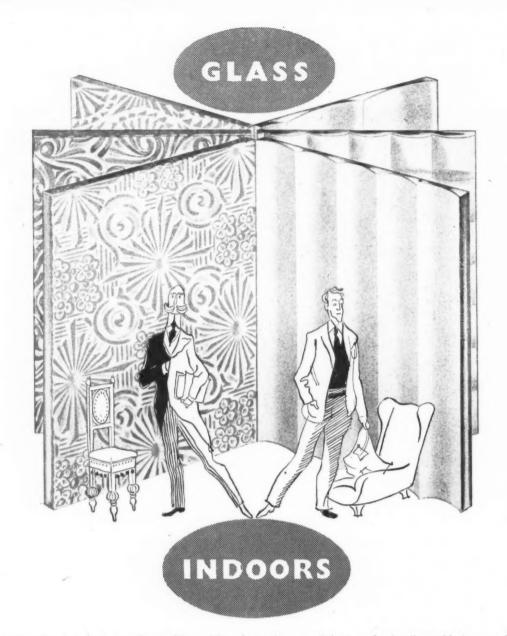


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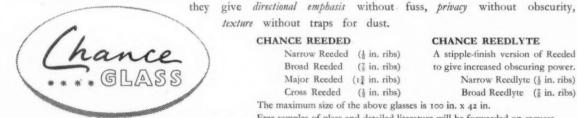
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PLAN

Othe by gi equip beds, ing. C from room child Fig. paren with in or of pla

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SANIT Mos

w.c. a Some on th basin. a sec consid who placir Other direct attem one-p the c Fig. 8 (not as in floor Mos board in cu a wa To n

dustbins are kept in a little brick box at the front of the house and coal deliveries must pass through the kitchen! Another fault which this design has, in common with several others, is that the entrance "lobby" is too small (see Fig. 3a), even for a draught lobby. On one of the "Mentioned" designs this difficulty is overcome by placing both doors on the splay (see Fig. 3b).

The design awarded second prize has no way through from front to rear; the site plan shows a service road. An interesting feature of this design is the "children's den" on the ground floor. Mother, at the kitchen sink, can watch the children through the "parents' peep hole." But when she sees little Tommy about to strangle little Mary, she must dash through the kitchen, the living room and the entrance hall before she can interfere!

PLANNING FOR THE CHILDREN

Other designs cater for the children's needs by giving them the largest bedroom and equipping it with two-tiered bunks or folding beds, so as to leave plenty of space for playing. One architect has separated the children from their parents by elevating the living room to the first floor and planning the children's bedrooms on the ground floor (see Fig. 1). A few others have omitted the parents' bedroom recess off the living room, in order to give the children the maximum of play space in their bedrooms.

Some architects have either failed to appreciate the economics of land values or have assumed a revolution in land ownership. One design has a frontage of 31 ft. (see Fig. 4). Although the depth of this design is only 13 ft., its author has failed to take advantage of this fact structurally, for his floor joists do not span from front to rear. Other architects, realising that land is usually bought by the frontage, have attempted to reduce the width of their houses (see Fig. 5). The smallest example was only 13 ft. from centre to centre of the party walls (the amusing cross-section of this house is shown in Fig. 6), but the planning of entries of this type was hardly up to the standard of Le Corbusier's flats at Marseilles (clear width, 11 ft.).

Only one competitor designed a 3-storey house (see Fig. 7). It seems doubtful whether the third storey is justified; but there is no reason why the house should be more expensive than one of two storeys. The first floor, which contains nothing but a living room, is an attractive feature. And the architect, having placed the bathroom on the second floor, has remembered the bedroom on the ground floor—there is another w.c. and a lavatory basin on this floor.

SANITARY ACCOMMODATION

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Most of the entrants omitted the second w.c. as they considered it an extravagance. Some compromised by having the only w.c. on the ground floor, together with a lavatory basin, the bathroom containing the bath and a second lavatory basin. Some obviously considered it economical to put the bathroom on the ground floor, but most of those who did this failed to see the advantage of placing the bathroom adjacent to the kitchen. Others were satisfied to put the bathroom directly over the kitchen; few made any attempt to economize on p'umbing, although one-pipe systems were very popular amongst the competitors. The scheme illustrated in Fig. 8 has the bathroom on the ground floor (not adjacent to the kitchen) and the result, as in several schemes, is a very simple first floor plan.

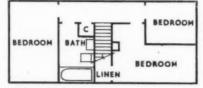
Most of the schemes have too few cupboards. This is a false economy, for a builtin cupboard has two sides and a top, whilst a wardrobe has four sides, top and bottom. To make matters worse, many of the bedrooms are so small that there is no room for a wardrobe. It is a stupid compromise to provide tiny cupboards which are too shallow to hang clothes in.

CONCLUSION

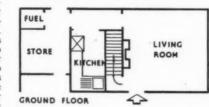
Since the competition was for urban housing (quantity surveyors were asked to calculate the cost on grade "A" labour rates), living room/kitchens, provided by some architects, are out of place, for this is a rural preference.

To sum up, none of the entries show any significant developments in building technique; most of the competitors chose to reduce the cost by simpler, but less desirable, means—by cutting standards of insulation, omitting cupboards, etc., and reducing floor areas.

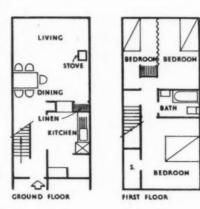
Although, many plans were, obviously, the result of imaginative thinking, there appeared to be a wide divergence of opinion as to what the housewife (or her family) actually want. Social surveys should, by now, have settled this question.



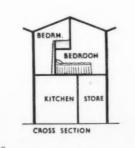




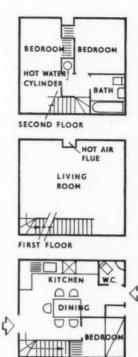






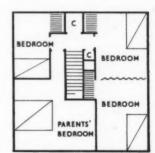






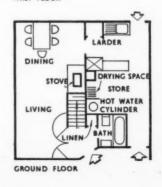
TECHNICAL SECTION





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THE ARCHITECTS' JOURNAL for March 1, 1951

A digest of current information prepared by independent specialists; printed so that readers may cut out items for filing and paste them up in classified order.

INFORMATION CENTRE

5.40 planning: public utilities ROAD DESIGN

Design of Safer Roads. E. Ogden (The Surveyor. Dec. 22, 1950, pp. 665-666; Dec. 29, 1950, 678-679.)

Paper by member of Lancashire County Surveyor's Office relating accident rates to road design and traffic volume.

Before the war about 8,000 road casualties, including 300 deaths, occurred annually on the roads of Lancashire. It has been calculated that the cost to the community of these accidents was about £34 millions per year. The recent Lancashire road plan was, in part, based upon an inquiry into the cost of different types of road improvements relative to the likely improvements in road safety. The basic investigation carried out comprised an analysis of accidents, which occurred, from April, 1946, to March, 1947, on 212 miles of classified roads. The result of the investigation showed that, apart from segregation the most fruitful

The result of the investigation showed that, apart from segregation, the most fruitful remedy for the prevention of road accidents lies in the improvement of intersections. For example: it was shown that the incidence of accidents was about 13 times as great near junctions as it was at places remote from them. This paper goes into the subject very thoroughly and is worth reading in full.

13.64 materials : timber

FOREST PRODUCTS RESEARCH LABORATORY REPORT

Forest Products Research, 1948. Department of Scientific and Industrial Research. (HMSO, 1950. 2s.)

General report on work of 1948, with list of publications.

13.65 materials : timber

BEETLES AND FUNGI

The Identification and Treatment of Defects in Timber. E. H. Brooke Boulton (Journal of Royal Institute of Chartered Surveyors, Dec., 1950.)

Brief outline describing recognition, type of attack and how to discover and treat damage from beetle and dry rot.

Mr. Boulton is an authority on the subject and has given a brief but clear summary of essential points. He describes the death watch, the furniture beetle (common woodworms), the lyctus or powder post beetle and the less known, and rather localized, longhorn beetle. In addition to a clear description of the type of damage and methods of treatment, there are useful notes on where to look for damage. Dry rot is dealt with in a similar way.

15.83 materials: applled finishes and treetments GRANOLITHIC FLOORS

Granolithic Concrete Floors. BRS Digest No. 24. Nov., 1950. (HMSO, 1950, 2d.) Describes suitable sub-floors, their prepara-

tion, thickness and mix, methods of laying, surface hardening treatments, and causes of slipperiness.

This Digest commences with a timely reminder that far too many failures occur with this, very commonly used, type of finish, and it is pointed out that, in the case of factories, the result of poor specification or workmanship may hold up production thereby causing expense far in excess of the actual cost of repairs.

Sub-flooring is considered for both solid ground floors and suspended floors. The essentials are: good quality concrete (without the addition of waterproofers which reduce the adhesion of the finish); positioning of joints to coincide with joints in the finish; the very important question of cleanliness; and the application of a slurry immediately before the laying of the granolithic finish.

Materials and mix for the finish are specified, and the possible value of adding calcium chloride is discussed. This not only assists setting in cold weather but may also give a better wearing surface.

However good the base concrete, the preparation of its surface and the specification for granolithic surface, success will still only be achieved if the actual laying is well done. This requires both skill and hard work, and should only be done by specialists. The thickness required depends on whether the finish is laid on green concrete, when $\frac{1}{2}$ in. is enough, or on set concrete, which may mean using a minimum of $1\frac{1}{2}$ in. Proper trowelling of the finish is vital. All too often the trowelling is done incorrectly and the mix is too wet.

On all the above points the Digest gives clear and direct advice. There are also some notes on surface hardening treatments, using either sodium silicate, or magnesium or zinc silico fluoride. Finally there is a brief mention of possible causes of slipperiness; the two most common being the use of rounded aggregates and the spreading of wax from adjacent areas of polished floors.

15.84 materials : applied finishes and treatments PLASTERING

Blowing. Popping or Pitting of Internal Plaster. BRS Digest No. 26. (HMSO. Jan., 1951, 2d.)

Describes how and why defects occur, and how to avoid popping, etc.

Most of the text of this Digest is given up to describing how and why popping, etc., occurs in plaster finishes. Primarily, the cause is the expansion of unslaked particles of quicklime. The recommendations for avoidance of this type of trouble, given in a single paragraph at the end of the Digest, are: Specification of materials in accordance with British Standards; when there is site slaking of quicklime it should be done in accordance with the recommendations in C of P 211 (Internal Plastering); the bottom layer of quicklime, which runs to putty, should not be used, as this is where most unsound material will be found; dry-hydrated lime should be soaked overnight.

16.69 materials: miscellaneous WINDOW DESIGN

A Guide to the Design of Windows. Neville Woodbury. (Neville Woodbury, Ltd. 1950. 6s.)

Small book treating design in the æsthetic sense. Deals with effect on elevations of shape, size and placing of windows.

This is a curious little book. It is extremely elementary and full of platitudes and dogmatic statements, yet one feels nevertheless, that the author has set down in simple form many of the points

about the design of windows which really determine the success or otherwise of elevations. It is unfortunate that the very small section headed "Practical" does not really contain any information about how to design for either good lighting or good ventilation. In fact there is scarcely any reference to the effect of windows on interiors. Simple sketches explain clearly the author's arguments on proportion and the design of façades. This is really what the book is about and it might have been advantageous had the title indicated the fact more clearly.

18.71 construction : theory ATMOSPHERIC POLLUTION

TECHNICAL SECTION

Citics Without Smoke. Albert Parker. (Journal Royal Society of Arts, Dec. 15, 1950.)

Extent of pollution and its nature. Detrimental effects. Methods of reduction. Coal cleaning. Efficiency of utilization. Generat paper by an authority. Gives interesting, data and sober picture of future programme for improvements.

18.72 construction: theory

PROTECTION AGAINST TERMITES

White Ants. Termite-proofing of Buildings in Australia. (Commonwealth Experimental Building Station, Dept. of Works and Housing, Australia. 1950.)

Specialist interest but useful. Recommendations for fitting of termite shields. Sketch illustrations.

18.73 construction: theory SMOKE ABATEMENT

Proceedings of the Margate Conference 1950.

(National Smoke Abatement Society, 1950, 6s.)

107-page report of papers. Some of considerable general interest.

The profession ought to be very interested in this subject and the report of the proceedings of the 1950 conference include a number of papers of general interest. Two papers on the effect of atmospheric pollution on health are important but, to architects, the most interesting part of the proceedings will be the papers dealing with smoke prevention as applied to new housing. Of these, a brief, but important and hopeful, report of action by the LCC is given by Cyril H. Walker, the LCC Valuer, while a paper by J. Robinson, an alderman of the Stretford Borough Council, reports on the effective measure of making the use of smokeless fuels a condition of tenancy.

While most people are probably in general agreement with the aims of the NSAS, architects and builders can greatly influence the effectiveness of the Council's efforts by installing appropriate appliances in their buildings. There appear, therefore, to be good reasons why every member of the building industry should study this publication.

19.112 construction: details FOOTINGS AND FOUNDATIONS

The Design of Footings for Small Masonry Buildings on Plastic Soil. Footings and Foundations. III. (Commonwealth Experimental Building Station, NSW, Australia. 1950.)

Loads on foundations. Strip footings. Beam footings. Pier and beam footings. 4-page leaflet, illustrated.

This leaflet, which is one of a series issued by the Department of Works and Housing of the Commonwealth Experimental Build-

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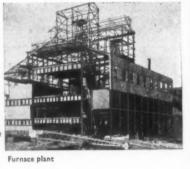
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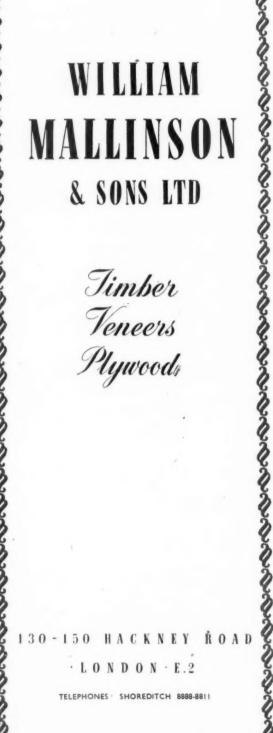
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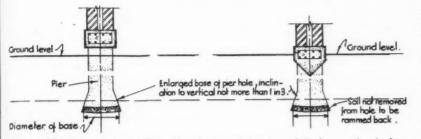
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THE ARCHITECTS' JOURNAL for March 1, 1951



Pier and beam foundations. Precautions to prevent heaving; left, beams placed above ground; right, beams have knife-edge on underside. See 19.112.

ing Station, is a sensible examination of the subject of foundations for small buildings. First, comes a simple statement of the heaviest loadings likely to reach the base of footings for typical brick dwellings of one or two storeys, with either concrete or timber floors. The normal type of strip footing is then examined, especially in relation to sites with plastic soils, and a number of common fallacies are exposed. Footings of the deep beam and inverted T-beam type are also discussed and recommendations on size and reinforcement given. Lastly, pier and beam foundations are examined. A warning is given that, with this type, precautions should be taken to prevent heaving of the ground lifting beams off their piers. This may be done, either by placing the beams above ground, or by forming a knife edge on the underside of the beams (see illustration). Tables give suggested spacing and sizes for piers and beams.

23.143 heating and ventilation SKIRTING HEATING INSTALLATIONS

Residential Baseboard Heating. William J. Architecture McGuinness. (Progressive [USA]. Dec. 12, 1950.)

Article on skirting heating equipment, installation and performance.

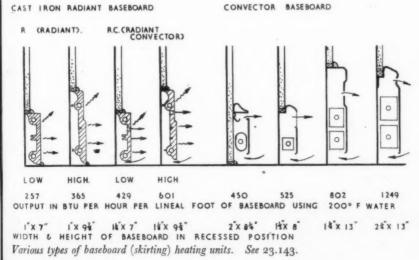
The number of articles on this subject now appearing in American magazines is a measure of the interest being taken in this

type of heating in that country. This article gives much useful information on the subject. In it, the author describes typical heating units, which may be of the cast iron or steel radiant type; similar types with convertion firs and cases at the back. with convection fins and space at the back; and the fully convective type, consisting of silled tubes with a cover. Typical profiles, sizes and outputs are shown (see illustration).

The cover plate of convective types is detachable for cleaning. In general, steam is un-suitable for such systems owing to condensate drainage difficulties, and staining of walls due to high temperatures. Hot water at not more than 200° F. avoids this trouble. Base-board heating is applicable to existing as well board nearing is appreadic to existing as were as to new buildings. The importance of insulating the back of the heaters is stressed (4-in, mineral wool is suggested) and the desirability of using weatherstripping and insulation to reduce heat losses generally. Otherwise, it may be necessary to use heaters on inner walls as well as outer with increased difficulty of installation. The system shares with radiant panel heating and perimeter heating (by warm air in ducts round the perimeters of rooms) the advantage of overcoming low temperatures at the outer edges of floor slabs, due to rapid heat loss at these points

Simplified installation is possible by using series loop" connections.

Pipe connections between units can be run in hollow steel baseboards, to match the heating units. Individual control of the units is not possible, but some control may be achieved with the convective type by using a damper to open or close the louvres. compensate for the lower water temperatures in the units farther from the boiler flow, it is usual to add $7\frac{1}{2}$ per cent. area to the middle section and 15 per cent. to the last section. Alternatively, an ordinary piping layout may be used, as with standard radiators. Individual control is then possible and balancing can be carried out in the ordinary way. Proper venting of units is necessary; ordinarily, air valves are used but, by making the water velocity sufficiently high and using suitably small pipe sizes, the air may be en trained with the water, and thus discharged. A suitable boiler installation is described; this is of the typical American pattern, operating under pressure, with relief valve



TECHNICAL SECTION

and air vessel. Provision must be made for 1-in. expansion for each 10-ft. run of heater, by expansion loop or other means. A loop under a door may serve this purpose.

Advantages claimed for this type of installation are: Lower parts of walls are warmer, and losses at edge of slab are offset; output largely radiant, and convection is well distributed; downdraughts from windows are avoided, and temperature gradients small; it can be installed and used before plastering is completed, and need not be removed for decoration.

An experimental installation of this type has been made in houses in Ipswich. In view of the undoubted advantages, it may be expected that others will follow in this this country when equipment becomes available. The use of the series-loop layout demands the use of a circulating pump. These are not available here in the very small sizes suitable for domestic installations, and unnecessarily large and costly pumps would have at the moment, to be used. As such small pumps would also be of value for small radiant panel systems, there seems to be scope here for an enterprising manufacturer. One of the particular points claimed for One of the particular points callined for installations in this country is the absence of staining of walls. This is no doubt due to the comparatively low temperatures (seldom higher than 180° F.) at which hot water



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14.L4 REFERENCE BACK

heater apparatus is operated here.

Readers are asked to note the following revision and to amend their copy of the Information Sheet in question:

Reverse of Sheet-At the end of the paragraph headed "Construction" the last line should read "ceiling without an aluminium head rail" and not with as printed.

INFORMATION CENTRE INDEX, 1950

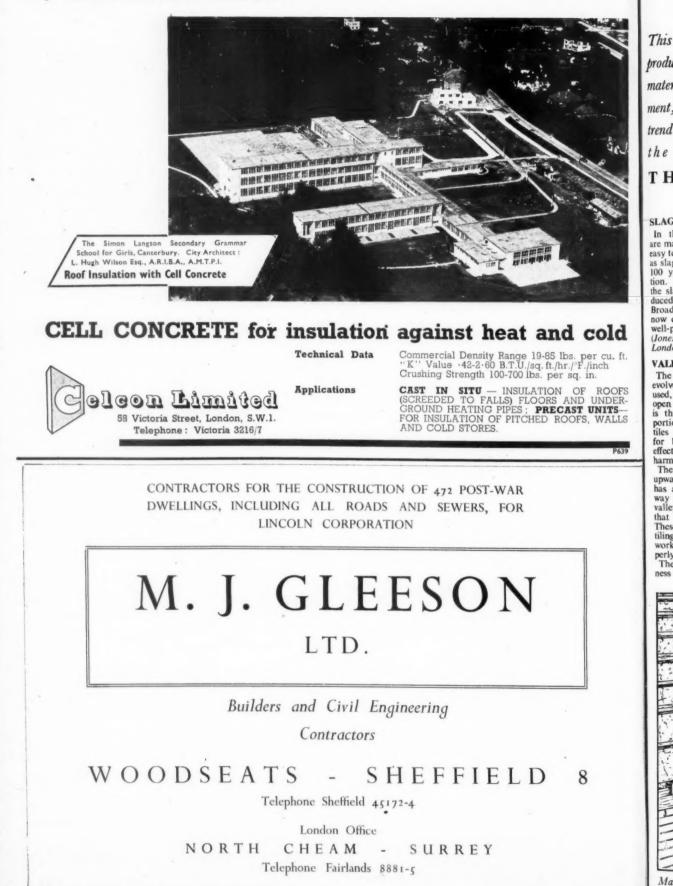
An alphabetical index covering items published during the twelve months ended December 31, 1950, is being prepared. Readers who wish to have a copy-it is free of charge-should complete the form below and post it to the Technical Editor, THE ARCHITECTS' JOURNAL, not later than March 9, 1951.

Please send me the Information Centre Index for 1950 :-

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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

By Brian Grant

SLAG WOOL

In these days when insulating materials are made of so many unusual substances, it is easy to forget such a long-established material as slag wool, which has been used for nearly 100 years for both heat and sound insula-For the last 20 years the majority of tion. the slag wool in this country has been pro-duced by F. Jones & Co. of London and J. C. Broadbent of Redcar. These two firms have now combined and thus have a network of well-placed depots up and down the country. (Jones and Broadbent Ltd., Perren Street, London, N.W.5.)

VALLEY TILES

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The Marley Tile Company have recently evolved a trough valley tile. This can be used, as an alternative to metal, for making open valleys. The appearance of the roof is thereby improved because the exposed portion of the valley tile matches the other tiles of the roof and the cement used for bedding, which may have a harmful effect on certain types of flashing, does not harm tiles harm tiles.

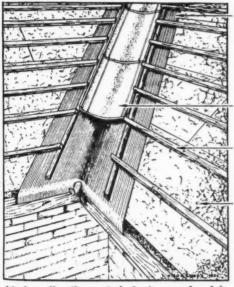
The tile has trough-shaped sides sloping upwards from the centre. The outer edge has a raised rim, which acts in the same way as the welt, or tilting fillet, of a metal valley and prevents the entry of any water that may percolate through the bedding. These tiles can be used with any form of tiling or slating, provided that the ground-work, on which the roofing is laid, is properly prepared.

The rib on the valley tile plus the thick-ness of the tile itself brings the top of the

tile $1\frac{1}{4}$ in. above the level of the rafters of a roof with a 35° pitch. If the pitch is less than 35° the tile projects a little farther. The upper face of the groundwork, to which the tiles are fixed, should be in the same plane as the top of the rib on the valley tile, or even higher. If the roof is counterbattened, fixing is simpler, but, as a result of the present day timber shortage, this solution is not always possible. The manufacturers have, therefore, produced a booklet which describes methods of using these tiles for different types of roofs. The valley tile should lie in the centre of the valley and must be supported at three points; the centre of the valley tile resting on the valley rafter. If the pitch of the roof is very steep, the valley tile may bridge from rafter to rafter without touch-ing the valley rafter. In this case, the is counterbattened, fixing is simpler, but, as ing the valley rafter. In this case, the latter must be battened to support the base latter must be battened to support the base of the valley tile. If, on the other hand, the pitch is low and the valley tile lies on the valley rafter so that it is free to rock from side to side, then battens must be fixed in the valley, parallel to the rafter, to support the edges of the valley tiles. Although careful attention must be paid to detailing there is no reason why the use to detailing, there is no reason why the use of these tiles should cause any difficulties on the site. (Marley Tile Co., Ltd., London Road, Riverhead, Sevenoaks, Kent.)

LIFTS FOR HOUSES

Even in a large house, the problem of installing a passenger lift can be compli-cated by the amount of space needed for the lifting gear and the enclosure for the cage. By using the Shepard lift this diffi-culty can be overcome. This lift requires an enclosure on the upper floor only; the lift cage being carried on four wheels which run in guides on the wall of the ground floor room. The wheels are made of Bakelite and require no lubrication, so that the wall guides are not greasy and can be painted to match the wall decoration. The winding gear and control equipment are mounted above the enclosures, at first floor level, so that the only builders' work re-quired consists of building the sides of the quired consists of building the sides of the enclosure, cutting a hole $42\frac{1}{2} \times 40\frac{1}{2}$ in. in the floor and fixing the wall guides. The lift motor is rated at 1 kW, and the lift is suitable for carrying two people. These lifts are also available with modified gates which enable the lift to take a wheel chair. They are designed by the Shepard Elevator



Marley valley tiles, method of using on a boarded, felted and battened roof.

Roofing felt laid along complete length of valley before valley tiles are placed in position.

Trough valley.

Tiling batten.

Marlith wood wool slabs secured to rafters.



TECHNICAL SECTION

" Sandalite" metal-clad S. P. & N. splitter. List price : 14/9.

Company of Cincinnati, and the manu-facturing rights, in this country, are held by Hammond and Champness, Ltd., Gnome House, Blackhorse Lane, London, E.15.

SWITCHGEAR AND FUSES

There has been, since 1939, a growing tendency not to put any fuse in the neutral conductor of current supplies but, instead, to use a simple fuse on the live side. There to use a simple fuse on the live side. There is no need to explain the reasons for this, but the relevant clauses can be found in the IEE wiring regulations. However, only a few manufacturers have been producing main switches and splitters with single pole main switches and splitters with single pole fuses, mainly because there is still a good demand for double pole gear. Sanders of Wednesbury have now standardized a large range of switches and splitters, one of which, a 21-amp. main switch with two 15-amp. outgoing fuses and two neutral ways, is illustrated here. The entire range of the barder burger fuse conis fitted with the Sanders Duplex fuse, conis nited with the Sander's Duplex fuse, con-sisting of a standard base which can be used in conjunction with the cartridge fuse carrier or one of the re-wireable types; either is available at the same price. (Wm. Sanders & Co., (Wednesbury) Ltd., Falcon Electrical Works, Wednesbury, Staffs.)

A FILM ABOUT CONCRETE

A film ABOUT CONCRETE A number of readers may have seen the films, Moving Earth and Building Homes which were produced for Laings some time ago. These dealt with open cast coal mining and the production of the Easiform house. The latest "production" deals with con-crete, showing the effect of using incorrect mixes and unsuitable aggregates, and it also demonstrates, very clearly, the high degree of organization and the accurate timing required on a major concreting job. After a series of shots showing common faults and methods of overcoming them, the film turns to the layout of a large-scale batching plant to the layout of a large-scale batching plant and shows the method employed for con-structing the Brabazon runway. The con-crete for this runway at Filton was laid in bays 25 to 30 ft, wide and in lengths of 1,500 ft. each working day. Altogether 12 miles of road, 20 ft. wide, was completed in 58 days by a team of 36 men. The film is in colour, it runs for 30 minutes and can be borrowed free of charge. I can recom-mend it for schools and for architects, and mend it for schools and for architects, and I was pleased to note that the firm which sponsored the film is hardly mentioned. (John Laing & Son, Ltd., Mill Hill, London, N.W.7.)

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

ENQUIRY FORM

I am interested in the following advertisements appearing in this issue of "The Architects' Journal." (BLOCK LETTERS, and list in alphabesical order please).

Please ask manufacturers	80	send	furth

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PROFESSION or TRADE

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Buildings Illustrated

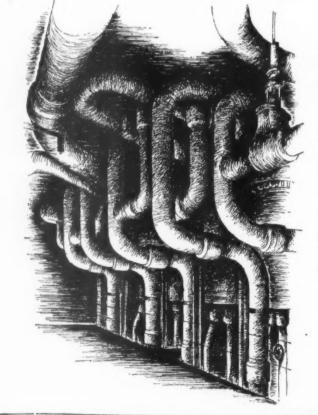
Flats and maisonettes at Hartsholme Estate, Lincoln. (Pages 273-279.) Architect: Deputy (Housing) Architect: B. Woodiwiss, L.R.L.A., Assistant in charge: J. Holden. Quantity surveyors: F. Thornout-Firkin & Partners. General Contractor: M. J. Gleeson Ltd. Sub-contractors: Excavation, foundations, gasfitting, plumbing, plaster, M. J. Gleeson Ltd.; rienforced concrete, P.C. beams and stairs, Trent Concrete Ltd., reinforcement to balconies, Twisteel Reinforcement Ltd.; bricks, facings, Procter & Lavender Ltd., National Coal Board, commons, Lincoln Brick Co. Ltd., London Brick Co. Ltd.; fireproof construction, wood wool slabs to roof, patent flooring, Marley Tile Co.; special roofings, mineral finished bitumen, balcony asbestos paving tiles, D. Anderson & Son Ltd.; glass, Pilkington Bros. Ltd.; grates, Ideal Boilers & Radiators Ltd., (back-toback) to maisonettes, Alan Ure; gas fixtures, drying cabinet fittings, Ranalah Ltd.; door furniture, Lockerbie & Wilkinson Itd.; casements, joinery, Hollis Bros. Ltd. (special steel) Haywards Ltd.; shrubs and trees, water supply. Lincoln Corporation Parks Department; signs, lettering, A. J. Binns Ltd.

Primary School at Becontree Heath. Dagenham. (Pages 280-283.) Architect: H. Conolly, F.R.I.B.A., County Architect, Essex. Deputy County Architect: Denis Senior, F.R.I.B.A. Assistant County Architect: E. T. Ashley Smith, A.R.I.B.A. Architect in charge: J. T. Bell, A.R.I.B.A. General Contractor: Edward W. Smith (Romford) Ltd.; Subcontractors: Heating and electrical installation, S. J. Frith & Sons Ltd.; precast concrete "Bison" roofs, Concrete Ltd.; bricks, W. H. Collier & Co.; precast concrete frame, The Helical Bar & Engineering Co., Ltd.; artificial stone, W. C. Richardson; structural steel, Dawnays Ltd.; pressed steel, John Thompson (Beacon Windows) Ltd.; roofing felt, Mells Asphalte Co.; woodblock flooring, Hollis Bros, Ltd.; patent flooring, Accotile, R. W. Brooke & Co. Ltd., cork tiling, C. V. Creffield & Co. Ltd., "Marquetone", Chittenden & Simmons Ltd.; cork linoleum, Korkoid Decorative Floors, floor tiling, Summers & Co.; sanitary fittings, Associated Clay Industries Ltd.; William E. Farrer Ltd., Adamsez Ltd.; door furniture, Yannedis & Co. Ltd.; coling shutters, Shutter Contractors Ltd.; gates and fencing, Penfold Fencing & Engineering Ltd., Bayliss Jones & Bayliss Ltd.; playground, Constable Hart & Co. Ltd.; asbestos spray ceilings, Turners Asbestos Cement Co. Ltd.; cloakroom fittings, Clarke Hunt & Co. Ltd.; bitumetal roofing, William Briggs & Sons Ltd.; metal doors and windows, Crittall Manufacturing Co. Ltd.; acoustic ceilings, Horace W. Cullum & Co. Ltd.; curniture (classrooms) Educational Supply Association Ltd.; (staff room chairs) Sadgrove & Co. Ltd.

Announcements

New telephone number for Messrs. Davis, Belfield and Everest, chartered quantity surveyors, 9, Ashley Place, S.W.1.: Tate Gallery 0521-5.

The Cement and Concrete Association announces that Monsieur Eugene Freyssinet and Professor Gustave Magnel have accepted honorary membership of the Prestressed Concrete Development Group.



A.J. 1.3.51

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EXCEL Buìld "When let us think that we build for ever" ('Seven Lamps of Architecture') For well over 300 years Durtnells of Brasted, in Kent, have been practising the Builders' ASPHALTE honourable craft, working under some of the foremost architects to ensure the competent erection of homes that last. Send us your Enquiries for In a world of ever-changing values we are proud to remain a firm of Builders content to be guided Asphalte · Laminated Felt Roofings by the old tradition of taking pains and to abide by the pleasure of doing good work, as apart **Pitchmastic** • Tar Paving from the snatching of quick profits. ON APPROVED LIST OF ALL GOVERN MENT DEPARTMENTS nrtne EXCEL SERVICE since 1591 R. DURTNELL & SONS LTD., BRASTED, KENT Telephone : Brasted 105/6 SEVENOAKS Tel: 3186 OXTED Tel: 498





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BOIL Robert Taylor & Co. (Ironfounders) Ltd., Muirhall Foundry, Larbert, Stirlingshire London Office & Showrooms-London Office & Showrooms-66 Victoria Street, S.W.I Also at Building Centre-9 Conduit Street, W.I

Ears, like Eyes, need malinidrat prescription Acousticon—and only Acousticon —have a series of miniature air and bone conduction receivers, worn in or behind the ear, each one adjusted to compensate for a different type or degree of hearing loss. One of these may be the right one for you. Your particular need can be accurately estimated by the exclusive scientific Analytic Speech Hearing Test. Test. Test. The design of the latest Acousticon Aids includes a four position Tone Control, Noise Suppressor enabling irritating noises to be cut down and giving you the joys of clear conversa-tion, music, plays, films. The Constellation is so light and neat that it may be slipped unobtrusively into the pocket—and there is a special Ladies Model which can be worn in the bodice or ever under the lapel of a coat. ngs lcon HEARING AID HEARING ALD Ears are similar to eyes in the manner in which they respond to waves.—eyes to light waves, ears to sound waves. And ears, like eyes, need individual pre-scriptions for the various degrees of deficiency. That is why Acousticon pro-vides a complete range of receivers—to ensure that your particular need is fully satisfied and to make certain the fine qualities of ACOUSTICON'S Hearing Aids are utilised to the utmost. ES CONSULTING ROOMS LONDON: 122, Wigmore Street, W.1. Phone: WELbeck 0935. GLASGOW: 128, Hope Street. Phone: Central 4634. MANCHESTER: 14, St. Ann's Squarc. 'Phone: Blackfriars 2109. 5 Ilmes Selican YSTEMS TCHENS aphoŝ **Drawing Ink Fountain Pen for** lettering and technical drawing FROM YOUR USUAL DRAWING OFFICE MATERIAL SUPPLIERS esigned Wholesale Distributors : dance with G. H. Smith & Partners, citie A.T.U's. 28 Berechurch Rd., Efficiency Colchester, Essex, Tel. : 5526 Ministry of nd Power. Also distributors of Pelican world renowned Waterproof Drawing Inks and Drawing Ink Cartridges.

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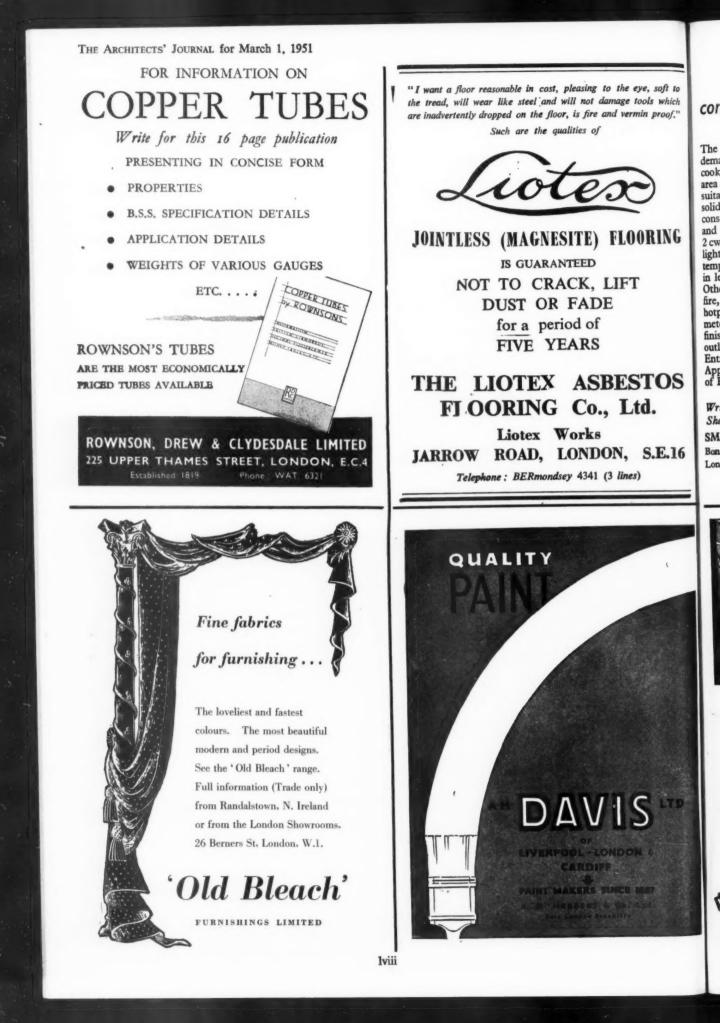
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THE ARCHITECTS' JOURNAL for March 1, 1951



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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advt. Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.I. and should reach there by first post on Friday's morning for inclusion in the following Thursday's

Paper. Replies to Box Numbers should be addressed cars of "The Architects' Journal," at the address given above.

Public and Official Announcements 25s. per inch; each additional line, 2s.

25s. per inch; each additional line, 2s. NORTH THAMES GAS BOARD. Applications are invited for the following appointment in the Architects' Section of the Chief Hugineer's Department of Westminster: SENIOR ARCHITECTURAL ASSISTANT, minimum starting salary £60 per annum. Applicants, who must be Registered Architects and should be studying for or have passed the Final Examination of the R.I.B.A. abould be capable of preparing working and detailed draw-ings and specifications, and supervising and con-trolling the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

design and planning of industrial buildings would be an advantage. The appointment is of a permanent nature, and pension arrangements will be discussed with abort list candidates. Applications, stating age, qualifications, and particulars of previous appointments held, must be submitted to the Staff Controller, North Thansee Gas Board, 30, Kensington Church Street, London, W.S, quoting reference 9757 4341

ranges usas Board, 30, Kensington Church Street, London, W. 8, quoting reference 9757 4341 LONDON COUNTY COUNCIL. Applications are invited for positions o AECHITECTURAL ASSISTANT (salare sup to 5660 a year) in the Housing and Valuation De-partment. Commencing salaries will be deter-mined according to qualifications and experience. Hagagements will be subject to the Local Govern-ment Superannuation Asts, and successful candi-dates will be eligible for consideration for spolntment to the permanent staff on the occurrence of vacancies. Biosecsful candidates will be required to assist a the design, layout and preparation of working drawings for housing schemes (cottages and multi-storey flats), and will be employed in the Director of Application may be obtained from the Director of Application may be obtained from the Director of Housing, The County Hall, West-mainster Bridge, 8.E. (stamped addressed envelope required and quote reference A.A.I). Canvassing diaganifies. (816)

CITY OF OXFORD. CITY OF OXFORD. CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT. ASSISTANT ARCHITECTS. Applications are invited from fully qualified Architects for posts on the permanent staff of the City Architect and Planning Officer's Depart-ment. ment. The salary scale will be £520×£15(2)×£20(1)-£570 per annum.

The salary scale will be $\pounds \pounds 20 \times \pounds 15(2) \times \pounds 20(1) - \pounds 570$ per annum. Applicants must be Registered Architects, capable of preparing sketch designs, full working drawings, specifications, etc., and compotent to undertake educations, housing, and general architectural work. The appointments will be subject to the National Conditions of Service, the Local Govern-ment Superannuation Act, 1937, and the successful candidates will be required to pass a medical examination. For the details of the duties of the posts and Application Forms, which must be used in apply-ing for the posts, may be obtained from E. G. Chandler, A.R.I.B.A., A.M.T.P.I., City Architect and Planing Officer, Town Hall, Oxford, and base forms must be returned not later than BAREY PLOYMAN. HAREY PLOYMAN.

HARRY PLOWMAN, Town Clerk.

Town Hall, Oxford.

Town Hall, Oxford. 1993 WESTMORLAND COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the appointment of ASSISTANT PLANNING OFFICER, Grade APT, III (salary £460,2495). It would be an advantage for applicants to have had previous this is not essential; the important requirement of the appointment is keenness and an intelligent of the appointment is keenness and an intelligent approach to the planning problems of an area of her appointment will be subject to the terms and conditions of service of the National Joint Council, the Local Government Superannuation Act, 1937, and to one month's notice on either ide expiring at the end of a calendar month. The saccessful candidate must pass a medical examination.

All successful calculate huist pass a mentical examination. Applicants should state whether they are matried or single, and should give particulars of age, education, technical training, qualifications, present salary, present and previous appointments, and details of experience, in that order. Appli-cations should be forwarded, together with a copy of one recent testimonial and the names of two referees, to R. H. Crompton, A.B.I.B.A., A.M.T.P.I., County Planning Officer, County Hall, Kendal, to reach him not later than 17th March, 1951.

K. S. HIMSWORTH, Clerk of the County Council.

County Hall, Kendal. 24th February, 1951. 1989

MINISTRY OF WORKS. There are vacancies in the Chief Architect's Division for ARCHITECTURAL ASSISTANTS and LEADING ARCHITECTURAL ASSISTANTS with recognised training and fair experience. Successful candidates will be employed in London and elsewhere on a wide variety of Public Build-ings, including Atomic energy and other Research Establishments, Telephone Exchanges, and Housing.

Housing. Architectural Assistants, £300-£525 per annum; Leading Architectural Assistants, £500-£525 per annum; Leading Architectural Assistants, £500-£625 per annum. Starting pay will be assessed acording to age, qualifications and experience. These rates are for London; a small deduction is made in the Provinces. Although these are not established posts, some of them have long term possibilities, and com-petitions are held periodically to fill established vagancies.

Acancies, Acancel and periodically to introduce the stabilistic Apply in writing, stating age, nationality, full details of experience and locality preferred, to Chief Architect, W.G.10/BC, Ministry of Works, Abell House, London, S.W.1, quoting reference W.G. 10/BC. 4825

W.G. 10/BC. 4286 BOROUGH OF WILLESDEN. 4286 APPOINTMENT OF ARCHITECTURAL ASSISTANT. The Council invite applications for the appoint-ment of an Architectural Assistant on the Per-manent Staff of the Borough Engineer and Surveyor's Department. The salary attaching to the poet will be Administrative. Professional and Technical, Grade VI, of the National Whitley Council's Scale for the London Area, namely £595 per annum, rising by two annual increments of £30 per annum and one of £25 per annum to £660 per annum, plus London weighting of £30 per annum.

per annum, plus London weighting of £30 per annum. Candidates must be Associates of the Royal Institute of British Architects or hold an equivalent qualification, and preferably have general knowledge and experience of architectural work in the service of a local authority. The appointment will be terminable by one month's notice on either side, is subject to the provisions of the Local Government Superanna-tion Act, 1937, and the successful candidate will be required to pass a medical examination. Applications, giving age, experience, etc., accompanied by copies of not more than three testimonials, should be addressed to the nder-signed. endorsed "Architectural Assistant," not later than 10 a.m. on Monday, the 19th March, 1951.

It will be necessary for the successful candidate to provide his own housing accommodation as the Council is not in a position to assist. Canvasing, either directly or indirectly, will be deemed a disqualification.

(Sgd.) B. S. FORSTER,

Town Hall, Dyne Road, Kilburn, N.W.6. 7th February, 1951. 7659

Town Hall, Dyne Road, Kilburn, N.W.S. 1959.
 Th Pebruary, 1951.
 1959
 PROFESSIONAL POSTS IN GOVERNMENT DEPARTMENTS.
 The Civil Service Commissioners invite appli-cations for permanent appointments to the basic (Assistant) grade of Architect, Maintenance Surveyor, Quantity Surveyor, Estate Surveyor, Civil Engineer, Sanitary Engineer, Structural Engineer, Lands Officer in a number of Depart-ments in England and Scotland. Applications will be accepted at any time up to and including 31st, December, 1951. Selected candidates will be interviewed as soon as possible after the receipt of their application forms. Successful candidates may expect early appointments. Candidates may advised to apply as early as possible.
 All candidates must be at least 25 and under 35 years of age on 1st January, 1951, with exten-tion for regular service in H.M. Forces, and up to two years for permanent Civil Servants. All candidates must be at least 25 and under 36 years of age on 1st January, 1951, with exten-sion for regular service in H.M. Forces, and up to two years for permanent Civil Servants. All candidates must be at least 25.
 The London salary scale for men aged 30 and over is £600×225-27.50. Lower starting salary for younger entrants (from £475 at age 25).
 The next higher grades are:—Main Grade. 21.570.
 Balaries for women and for officers appointed to the provinces will be somewhat lower.
 Torms of application and copies of the regula-tions with full details of qualifications required from the Civil Service Commission, Scientific Branch, Trinidad House, Old Barlington Street, London, W.I, quoting No. 3465TA.
 Completed application forms should be returned as soon as possible.
 HORNCHURCH URBAN DISTRICT COUNCIL. ENGINEER, AND SURVEYOR'S

returned as soon as possible. 1971 HORNCHURCH URBAN DISTRICT COUNCIL. ENGINEER AND SURVEYOR'S DEPARTMENT. Applications are invited for the under-mentioned appointments:--(a) ARCHITECTURAL ASSISTANT. Grade A.P.T., IV (£400×£15 to £525 per annum). (b) TOWN PLANNING ASSISTANT. Grade A.P.T., II (£420×£15 to £465 per annum). Particulars of the appointments and forms of application can be obtained from the under-signed, by whom applications in envelopes endorsed 'Architectural Assistant' or 'Town Planning Assistant'' must be received not later than Monday, the 12th March, 1951. The Council are not prepared to assist in the provision of housing accommodation. P. L. COX.

P. L. COX, Clerk of the Council.

Council Offices, Hornchurch. February, 1951. 1972

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EDWIN M. NEAVE, Town Clerk.

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 EDWIN M. NEAVE. Toten Clerk.

 Town Hall, Wimbledon, S.W.19.
 1937

 NATIONAL COAL BOARD (SCOTTISH DY1810N).
 Strand St

Examination, and have some office experience. 1336 METROPOLITAN BOROUGH OF DEPTFORD. BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT. Applications are invited for the permanent appointment of Architectural Assistant in Grade VI of the A.P.T. Division of the National Scales of salary viz., £555 £20/252-E660 per annum. plus £20 London "weighting" under 26 years of age, and £30 at 25 years and over. Candidates should be Associates of the R.I.B.A. or of the R.I.C.S., or hold an equivalent qualifica-tion. Previous experience in Municipal work and in design and construction is desirable. The appointment will be subject to the Council's Superannation Acts, the National Scheme of Conditions of Service, and the passing of a sali-factory medical examination: and candidates musi-tate to writing whether to their knowledge they are related to any member of the Council. Applications, stating age, experience and quali-fications, accompanied by not more than three recent testimonials, must be received by me not later than Monday, 5th March, 1851. Canvassing, either directly or indirectly, will be a lisqualification. ERNEST FIELD. Torm Clerk.

later than Monday, 5th March, 1951. Canvassing, either directly or indirectly, will be a disqualification. ERNEST FIELD. Town Clerk. Deptford Town Hall, New Cross, 9.E.14. BRITISH ELECTRICITY AUTHORITY. EASTERN DIVISION. Applications are invited for the following posts in the Generation Construction Department at Divisional Headquarters in North London:--(a) ASSISTANT ARCHITECT. Salary within the range of 2630-2735 per annum (which includes London allowance). (b) ARCHITECTRAL ASSISTANT. Salary within the range of 2625-2630 per annum (which includes London allowance). The initial salaries for these posts will depend upon experience and qualifications. The salaries are provisional and will be subject to negotiation through the medium of the appropriate agoinates should have had experience in the design and alteration of industrial buildings. The appointments will be Superannuable in accordance with the British Electricity Authority and Area Board Superannation Scheme. Applications, stating age, experience, present position, and salary required, and endored with the appointment sought, should be submitted to arrive not later than 10th March 1951, to the Divisional Controller. British Electricity Authority, Eastern Division, Northumet Houses Southgate, N.M. W. N. C. CLINCH.

W. N. C. CLINCH. Controller.

Northmet House, Southgate, N.14.

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CITY OF NOTTINGHAM. HOUSING ARCHITECT'S DEPARTMENT. ASSISTANT ARCHITECT. Applications are invited from Registered Archi-tects, preferably with experience of large-scale housing work, for the appointment of Assistant Architect, in A.P.T. Division, Grade VI (£595 to

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Architect, in A.P.T. Division, Grade VI (£255 to 2660). The appointment is in accordance with the National Joint Council's Scheme of Conditions of Service, and subject to the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination. Applications, giving details of age, training, qualifications, experience and present appoint-ment, together with the names and adresses of iwo persons to whom reference can be made, should be forwarded to C. A. Pilkington, L.R.I.B.A., City Housing Architect, The Guild-hall, Nottingham, not later than Friday, 16th March, 1951. T. J. OWEN, T. J. OWEN, Town Clerk.

March, 1951. T. J. OWEN. Town Cierk. Town Cierk. Town Cierk. Town Cierk. METEOPOLITAN BOROUGH OF PADDINGTON. METEOPOLITAN BOROUGH OF PADDINGTON. METEOPOLITAN BOROUGH OF PADDINGTON. METEOPOLITAN BOROUGH OF CIERCINAL SCIENCING METEOPOLITAN BOROUGH OF PADDINGTON. PADDINGTON. APPOINTMENT OF SURVEYING ASSISTANT (ESTIMATING). (A.P.T. III and IV. 2450-525 p.a., plus London "weighting.") Molical is subject to the National Joint Council's Service Conditions, the Council's Superanna-tich is subject to the National Joint Council's Service Conditions, the Council's Superanna-tich is subject to the National Joint Council's Service Conditions, the Council's Superanna-tich is subject to the National Joint Council's Service Conditions, the Council's Superanna-tich is subject to the Sale of successful Candidates should have experience in all phatic buildings work, particularly the pre-paration of estimates and specifications for alter-tions to and maintenance of housing property and phile buildings, the Supervision of contract work, and the preparation of final accounts. Prefer-ence will be given to candidates who have passed of the Intermediate Examination of the Roysi to candite sub-Diriton. Tentermediate Examination of the Roysi to and maintenance of housing property and phile buildings, the Supervision of contract work, and the preparation of final accounts. Prefer-ence will be given to candidates who have passed of the repervision. Tentermediate Examination of the Roysi to and maintenance of housing property and phile buildings, the Supervision of contract work, and the preparation of final accounts. Prefer-tion and past appointments, with dates and the Matten Sub-Diriton. Tenter Matten Supervision. Tenter Cierk. Tente Cierk. Tente Cierk. Tente Cierk. Tente Cierk. Tente Cierk. Tenter Cierk. Ten

W. H. BENTLEY. Town Hall, Paddington, W.2. 23rd February, 1951. CITY OF COVENTRY. ARCHITECTURAL AND PLANNING DEPARTMENT. Appointments:-(a) ONE HEATING AND VENTILATING ENGINEER. Grade A.P.T. VII. (b) ONE HEATING AND VENTILATING ENGINEER. A.P.T. VI. (b) ONE HEATING and VENTILATING ENGINEER. A.P.T. VI. Applicants should be Graduate Members of the Institute of Heating and Ventilating Engineers, and be experienced in the design, preparation of drawings and specifications for all classes of heating, hot and cold water supplies, and venti-lation equipment of buildings. All employees are expected to belong to an spropriate organisation as referred to in Paragraph 44 of the "Charter." Forms of application may be obtained from the andersigned and should be returned by 22nd March, 1951. DONALD GIBSON.

Forms of application may be obtained from the materiagned and should be returned by 22nd March 1951.
 Forms of application may be obtained from the March 1951.
 DORALD GHESON.
 City Architect and Planning Officer.
 Marchitect and Plannin

Council Offices. Harrow Weald Lodge, Harrow. 1986

COUNTY BOROUGH OF BURTON-UPON-TRENT. Applications are invited for the appointment in the Architectural Office of the Borough Surveyor of an ARCHITECTURAL ASSISTANT, in Grade VI of the A.P.T. Division (£556-£660). Preference will be given to candidates who have passed the Final Examination or part of the Final Examination of the Royal Institute of British Architects. The appointment will be subject to the pro-visions of the Local Government Superannuation Act, 1937, to determination by one month's written notice on either side, and to the successful candidate passing a medical examina-tion by the Medical Officer of Health. A Corporation house will be made available if entred.

A Corporation house will be made areas required. Applications in scaled envelopes, stating age, qualifications and experience, and accompanied by copies of three recent testimonials, must be delivered to the Borough Surveyor, Town Hall, Burton-upon-Trent, not later than 10 a.m. on Wednesday, 21st March, 1951. H. BAILEY CHAPMAN, Town Clerk.

H. BAILEY CHAPMAN, Town Hall, Burton-upon-Trent. 20th February, 1951. NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY. A vacancy exists for a LECTURER IN ARCHITECTURE, required in the early stages to design College buildings and assist in the supervision of building contractors. Teaching duties, developing as buildings are completed, will include instruction of Architectural Assi-tants, and of students in the Civil Engineering pepartment proceeding to A.M.I.C.E. examina-tions. Candidates should have ARLIRA or com-

will include instruction of Architectural Assistants, and of students in the Civil Engineering performance of the civil Engineering architect, resident architect; or clerk of works desirable. Teaching experience in a Technical College or University Departament would be valuable.
 Salary in scale 2660-21,300 per annum (including expatriation pay of 2150-2300 per annum, point of entry according to relevant experience. A temporary non-pensionable cost-of-living allowance of 10 per cent. of basic salary is also payable. Appointment will be pensionable it confirmed after probationary period of three years. Alternatively contract appointment (non-pensionable but gratuity-earning) at higher encluments could be made. Quarters at low rental. Free first-class passages for person appointed and wife on first appointment and on leave. Either allowance or passage allowance for children under 15 up to two in number. Income tax at local rates much lower than those in the United Kingdom. Generous home leave on tall pay.
 Applications should be made by letter, stating age, whether married, full particulars of education any be obtained by first substituted by 15, Victoria Street, Sw1, from whom further information may be obtained if required. Testimonials (not more the Architects Department; 1960)
 CUMBERLAND COUNTY COUNCIL. Applications are invited for the following appointed by 18th March, 1951. 1966
 CUMBERLAND COUNTY COUNCIL. Applications are invited for the following appointed by 18th March, 1951. 1967
 CUMBERLAND COUNTY COUNCIL. Applications are invited for the following appointed by 18th March, 1951.
 Cumber article Examination.
 The appointents will be terminable by one month's notice on either side, and will be subject the first appointent (and the equivalent standard of the R.I.B.A. Final Examination.
 Applications, of the Local Government Superannaticale Examination.
 Applications, of the Local Gover

G. N. C. SWIFT, Clerk of the County Council. 1965

February, 1951.

CIEFK OF THE County Council. February, 1951. BRITISH ELECTRICITY AUTHORITY. MIDLANDS DIVISION. Applications are invited for positions as ARCHI-TECTURAL and BUILDING DRAUGHTSMEN in the Drawing Office of the Chief Generation Engineer (Construction) at Wolverhampton. Candidates should have wide experience in the preparation of working drawings relating to power stations and other buildings. The possession of an architectural degree or recognised qualification will be considered an advantage. The salary range, which is provisional and subject to negotiation will be considered an advantage. The aslary range, which is provisional and subject to negotiation will be considered an advantage. The aslary proved by the British Electricity Authority. Applications should be made on forms which

Authority. Applications should be made on forms which may be obtained from the Establishments Officer, 53, Wake Green Road, Moseley, Birmingham, 13, and should be returned not later than 10th March, 1951.

F. W. LAWTON. Divisional Controller. 1974

BUCKS COUNTY COUNCIL. Applications are invited from QUALIFIED ARCHIFECTS for vacancies in the under-mentioned grades on the staff of the County Architect: — Grade X (2556-2600 p.a.). Grade VIII (2655-2650 p.a.). Grade VIII (2655-2670 p.a.). Grade VIII (2655-2670 p.a.). Grade VIII (2655-2670 p.a.). Grade VII (2655-2670 p.a.). Grade VII (2655-2670 p.a.). Grade VII (2655-2670 p.a.). The poets offer scope for initiative and enthusiasm. Applicants should preferably have been trained at a recognised School of Archi-tecture, and for the two Grade X appointments must have considerable experience and be able to administer a section of the department as Principal Assistant. The appointments are superannuable and subject to medical examination. A weekly allowance of 25s. and return fare home very two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation. Burther particulars and form of application may be obtained from the County Architect, County Offices, Aylesbury, to whom applications must be delivered by 15th March, 1951. Gurt R. CROUCH, Clerk of the Council. Method School Sc

County Hall, Aylesbury. February, 1951. 1984

Clerk of the Council. Teory, 1951. 1994 CITY OF NORWICH. CITY ARCHITECT'S DEPARTMENT. Applications are invited for the appointment on the permanent staff of an ARCHITECTURAL ASSISTANT in Grade IV of A.P.T. Division (2480 ×215 to 2525 per annum). Candidates to have good general architectural training and experi-ence, and should have passed the Intermediate Examination or its equivalent. The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful candidate will be required to pass a medical examination. Housing accommodation can, in certain circum-stances, be made available. Candidates who, to their knowledge, are related to any member or officer of the Council shall. When making application for the appointment, disclose the relationship in writing to the Town Clerk. A candidate who fails to do so shall be disqualified for the appointment and, if appointed. shall be liable to dismissal without notice. Canvasing of members of the Council or of any Committee, directly or indirectly, shall dis-qualifications, stafing age, training, experience, qualifications and other relative information. More with copies of three recent testimonias. mast be received by the City Architect. City Hall, Norvich, not later than 5 p.m. on Wednes-day. 1965.

the undersigned, from whom further details re-garding local conditions, etc., may be obtained. C. W. BAXTER. Town Hall, Dar-es-Salaam, Tanganyika. 10th February, 1951. INTROPHYSICAL SCHOOL. CLERK OF WORKS. Applications are invited for the post of Clerk of Works for the Secondary Technical School and Branch College of Further Education to be creeted on the Record glebe sile. Wigan. Salary will be £12 per week. Applicants should be experienced in the erection of large populic buildings of modern construction, and should have a knowledge of precast and pre-stressed concrete work and piling. Applicants should also have a knowledge of the installation of engineering services and be able to keep records of foundation work, drainage, and other work below ground. Further details regarding this appointment and conditions of service can be obtained from the undersigned. Completed applications should be returned as quickly as possible, and in any case not later than 14 days after the appearance of this advertisement in this journal. REEES EDWARDS.

REESE EDWARDS, Director of Education. 15th February, 1951. 1949

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BOROUGH OF PRESTWICH. BOROUGH ENGINEER'S DEPARTMENT. APPOINTMENT OF ARCHITECTURAL ASSISTANT. Dications are invited for the position of Architectural Assistant, at a salary in accordance with A.P.T., Grade IV (2402-6252), per anum. Applicants should hold suitable qualifications and have thad some experience in house. The appointment will be terminable by one month's notice on either side, and will be subject month's notice on either side, and will be subject month's notice on either side, and will be subject and the provisions of the Local Government Super-month's notice on either side, and will be subject month's notice on either side, and will be subject to be received not later than Saturday. The March, 1952. The March, 1952. March 1952. March 1952. March 1952. March 1952. March 2052.

C. A. CROSS, Town Clerk.

Town Hall, Prestwich, Lancs. February, 1951. 1951

(a) AECHITECTURAL ASSISTANT. A.P.T., Grade VI, £595-£664
 (b) AECHITECTURAL ASSISTANT. A.P.T., Grade III, £595-£664
 (c) QUANTIT SURVEYOR. A.P.T., Grade V, £530-£530.
 Applications, stating age, qualifications, experi-ence, past and present appointments and the names and addresses of three referces, should be sent not later than Monday, 12th March, 1951, to the Secretary, Eastern Regional Hospital Board, 430, Blackness Road, Dundee, from whom further particulars may be obtained.
 19th February, 1951.

EAST SUFFOLK COUNTY COUNCIL. COUNTY ARCHITECT'S DEPARTMENT. Applications are invited for the following post in the County Architect's Department :--Grade "A" ASSISTANT ARCHITECT. A.P.T., Grade VII. Consolidated salary £635-£710 por annum. The commencing salary in this grade will be fixed according to the qualifications and experi-ence.

nxed according to the qualifications and experi-ence. Applicants must be Members of the R.I.B.A., quick and accurate draughtsmen capable of carry-ing a job through in all its stages, including sketch plans, working drawings, supervision of work in progress, as well as the administration work in connection therewith. They should have a sound knowledge of design and building con-struction, and should be capable of writing speci-fications. Office experience after school training or articles is essential. The work to be dealt with is that normally carried out by a Local Authority. The appointment will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Act, 1937. The successful applicant will be required to pass a medical examination.

The successful applicant will be required to pass a medical examination. Applications, stating age, qualifications, and full details of previous experience, accompanied by copies of three recent testimonials, should be sent to E. J. Symcox, F.R.I.B.A., County Archi-tect, County Hall, Jpswich, not later than 16th March, 1951. Canvassing, either directly or indirectly, will disqualify a candidate from consideration.

G. C. LIGHTFOOT, Clerk of the Council.

COUNTY BOROUGH OF GREAT YARMOUTH EDUCATION COMMITTEE. APPOINTMENT OF TWO CLERKS OF WORKS. Applications are invited for the appointment of Two Clerks of Works, to supervise the erection of the new Secondary Technical School and the erection of the "Beccles Road" Secondary Modern Girls' School. The appointments will be temporary for approximately 21 years in the case of the first and 2 years in the case of the second, and subject to one month's notice on either side. The alary will be 212 per week. Applicants must have a thorough knowledge of the building trade, including experience in connection with steel framed buildings, they must be conversant with plans, specifications, bills of guantities, and competent to set out work, give levels, and keep all necessary records and progress reports.

dualities, and keep all necessary records and progress reports. Applications, stating age, qualifications, present mapployment and previous experience, accompanied by copies of three testimonials, should be enclosed in an envelope endorsed. 'Clerk of Works, Schools," and must be received by me not later than Monday, 26th March. Canvassing, directly or indirectly, will be deemed a disqualification, and candidates must disclose in writing whether, to their knowledge, they are related to any member or holder of any senior office under the Council. Candidates who fail to do so will be disqualified and if appointed will be liable to dismissal without notice. D. G. FAREW, Chief Education Officer. 23nd February, 1961.

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ARTHUR BATES, County Planning Officer.

County Planning Department, 7, Bond Street, Wakefield.

7, Bond Street, Wakefield. 1996 COUNTY BOROUGH OF CARLISLE. CITY ENGINEER'S DEPARTMENT. Applications are invited for the appointment of An ASSISTANT QUANTITY SURVEYOR, Grade A.P.T., VI (£959-£660). Applicants for the appointment should be Corporate Members of the Royal Institution of Chartered Surveyors (Quantities Division), and should have experience in the preparation of Bills of Quantities, Estimates, measuring up and settle-ment of Final Accounts. Housing accommodation will be provided for the successful applicant, if required. Torment may be obtained from the City Engineer, 8, Fisher Street, Carlisle, to whom all applica-tions should be returned not later than Saturday, 17th March, 1951. H. D. A. ROBERTSON,

H. D. A. BOBERTSON, Town Clerk.

The Town Clerk's Office, 15, Fisher Street, Carlisle. 1070

 15, Fisher Street, Carlisle.
 1970

 COUNTY BOROUGH OF BURNLEY.

 Applications are invited for the under-mentioned appointments in the office of the Borough Engineer and Surveyor...

 (a) EXDING ARCHITECTURAL ASSISTANT.

 Grade Y (£520-2570 per annum).

 (b) ARCHITECTURAL ASSISTANT.

 Grade Y (£520-2570 per annum).

 (c) MUNTER DORARY CLERK OF WORKS (Build VI (£405-4465 per annum).

 Applicants should have had experience in a similar capacity, and preference will be given to candidates holding recognised qualifications.

 Torms of application may be obtained from the borough Engineer and Surveyor, 22-34, Nicholas Street, Burnley, to whom applications should be telurated not later than Friday, the 16th March 1951.

 C. Y. THORNLEY.

C. V. THORNLEY, Town Clerk

HEREFORDSHIRE COUNTY COUNCIL. COUNTY PLANNING DEPARTMENT. Applications are invited for the appointment of a PLANNING ASSISTANT, Grade A.P.T., III, salary 2450-2495 per annum, for work on the Development Plan and Survey. The appointment will be subject to the pro-visions of the Local Government Superannuation Act, 1937. The successful candidate will be re-quired to pass a medical examination. Applications, stating age, qualifications and ex-perience, should be submitted to the undersigned as soon as possible, together with the names and addresses of two referees. A. R. DUNCAN, County Planning Officer. Chandos House, St. Owen Street, Hereford. 1948

TWO DRAUGHTSMEN. Salary according to the Miscellaneous Division, Grade 111-11V (2515× 215-2420). Candidates should be not less than 20 years of age. The successful candidates will be engaged one on the preparation of the Survey and the Development Plan and the other on work under the National Parks and Access to the Country-side Act, 1949. Applicants should be expert colourists and draughtsmen, with ability to prepare maps in colour and lettering to a high standard of presentation. These vacancies are of particular interest to those persons intending to make a career in Town and Country Plasming, and every encouragement will be given by the Council, including financial assistance, to candidates preparing for appropriate examination qualifications. The usual service conditions of the Local Government Service will apply. Applications, together with the names of three persons to whom reference may be made, should be addressed to the County Planing Officer, County Hall, Truro, not later than the 17th March, 1951. No application forms are issued. E. T. VERGER.

E. T. VERGER, Clerk of the County Council.

County Hall, Truro. 21st February, 1951.

 21st February, 1961.
 1992

 WILTSHIRE COUNTY COUNCIL. ARCHITECT'S DEPARTMENT.

 Applications are invited for the following superannuable appointments:—

 (a) CHARTERED ABCHITECTURAL ASSIS-TANT. Salary £685, rising to £760 per annum.

 (b) THREE ARCHITECTURAL ASSISTANTS (Inter. R.I.B.A.). Salary £450, rising to £495 per annum.

 Canvassing disqualifies.

 Forms of application obtainable from the under-signed, returnable by 15th March, 1951.

 P. A. SELBORNE STRINGER, Clerk of the Council.

 County Hall, Trowbridge.

County Hall, Trowbridge. February, 1951. 1964

L. EDGAR STEPHENS, Clerk of the Council.

1000

GOVERNMENT OF NORTHERN IRELAND MINISTRY OF EDUCATION Applications are invited for an unestablished appointment in the Ministry of Education as QUANTITY SURVEYING ASSISTANT Grade A on the salary range £400-£600 per annum. The commencing salaries of selected candidates will be fixed according to experience within the range quoted.

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R.B.C. invites applications from Registered Architects for TWO ARCHITECTURAL POSTS IN BUILDING DEPARTMENT. London. Appli-cants should have sound knowledge of building onstruction and at least three years experience, in an office. Preference given to a spillcants rate should have sound knowledge of building onstruction and at least three years experience, to cache Engineering Establishment Officer, Broad-cache Engineering Establishment Officer, Broad-cache Singeneering Establishment Officer, Broad-tor Planning Institute, and the Singeneering Singeneering and Department at Lyndhurst. Candidates should be and why passed the Intermediate examination of the form Planning Institute, and have bad experi-mention Institute, and have bad experi-mention of application is issued, but applica-tions, stating age, education, qualifications and experience, together with a copy of one testi-monial and the names and addresses of two per-sons to whom reference may be made should be room tof and Winchester, nucl atter that the fith March. 1951. 1948 March March. 1951. 1948 March March. 1951. 1948 March March. 1951. 1948 March March. 1951. 1948

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 BOROUGH OF ILFORD DOROUGH ENGINEER & SURVEYOR'S DEPARTMENT.
 1998

 PROINTMENT OF TWO TEMPORARY CLERKS OF WORKS.
 1998

 Applications are invited for two positions as temporary Clerk of Works at a wage of £9 115. 64.
 1998

 Compositions are invited for two positions as temporary Clerk of Works at a wage of £9 115. 64.
 1998

 Caddates for appointment (a) must have had onave a sound knowledge of building construction.
 1998

 Applicaties for appointment (b) must have had con-siderable experience as clerk of works and have a sound knowledge of buildings is essential.
 1998

 Applicantis for position (b) must have had con-siderable experience in the supervision of roads and sewer construction and be capable of measur-ing up for interim and final accounts.
 1998

 The appointments will be subject to one month's motice on either side, to the provisions of the vational Conditions of Service and to medical examination.
 1998

 Tormark Bugineer and Surveyor, Town Hall, Ilford, should be returned to the undersigned not later than 10th March. 1962.
 1907

 Town Hall, Ilford.
 1907

Town Hall, Ilford. February, 1951.

1997

Tenders for Contracts 6 lines or under, 12s. 6d.; each additional line, 2s.

 Tenders for Contracts

 Ainse or under, 12. 6d.; each additional line, 2.

 PEMBROKESHIRE EDUCATION COMMITTEE.

 Duiding Contractors desirous of TENDERING for the EBROTION of both or either of the inplications to Walter Barreit, M.B.E. AR.1B.A., County Architect, County Offices, Havefordwest, Pembrokeshire.

 (a) PEMBROKE DOCK NEW GRAMMAR FUNCAL SCHOOL (3 Form Entry). Applica-tions by 14th March, 1951. Tenders due in 12th Arril, 054.

 (b) TAVERNSPITE NEW COUNTY PRIMARY SCHOOL (3 Class). Applications by 26th Feb-tary, 1951. Tenders due in 12th March, 1951.

 Ceneral Conditions of Contract and Bills of Guantifies will be supplied on receipt of 2 55 55.

 General Conditions of Contract and Bills of Guantifies will be considered unless submitted inter of the return of all documents. Drawings, etc., can be inspected at the office of the County Architer during the usual working hours.

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6 lines or under. 12s. 6d.; each additional line, 2s.

CHARTERED ARCHITECT, with medium sized office in Midlands, industrial and school work. etc., in hand, requires ASSOCIATE, pre-ferably A.M.T.P.I., for position leading to Partnership. Having contemporary ideas, able to introduce work. Box 1852.

YOUNG CHARTERED ARCHITECT, at present in private practice on own account, wishes to purchase Partnership in well-established Architect's practice in London with contemporary outlook. Box 1957. CONSULTING ENGINEER (Heating, Me-chanical, Electrical), small capital, own office, wishes Partnership or similar arrangement with Established Architects planning Engineer-ing Installations Large Buildings, Factories, Schools, Hospitals, Laundries. Box 1988.

Architectural Appointments Vacant 4 lines or under. 78. 6d.; each additional line. 18. FULLY qualified ARCHITECTURAL ASSIS TANT required for West End office. Capable of handling contracts. State qualifica-tions, experience, and salary required. Box 1566. BritLLIANT CONTEMPORARY ARCHI-tion winner, required by practising Architect, A.R.I.B.A., in Warwickshire, to help in competi-tion work, evenings or daytime, by arrangement. Mutual financial agreement to full details. A SSISTANTS required in Architect.

Box 1853. A SSISTANTS required in Architects' Depart-ment of large commercial organisation. Sound all-round training in the profession essen-tial, including supervision of work. Excellent opportunities for men of initiative. Apply in writing, giving details of experience, age, and salary required, to Box 1885. A RCHITECTURAL ASSISTANT urgently re-quired in Portsmouth office of London Architect. Applicants should be of at least Inter-mediate standard. Interesting work and good salary for right man. Sond applications in duplicate, giving age, qualifications, and experi-ence, to Box 1350. C ENIOR ARCHITECTURAL STAFF required

duplicate, giving age, qualifications, and experi-ence, to Box 1930. SENIOR ARCHITECTURAL STAFF required by London Firm of Architects. Please reply by letter, stating training, experience, age, and salary required Box 1952. THE RAILWAY EXECUTIVE invite appli-cations for posts of ASSISTANT ARCHI-TECT in London. Applicants should be A.B.I.B.A. or hold equivalent qualification, and have had several years' experience in an Archi-tect's office. Commencing salary £500.2550 per annum. Applicants selected may be required to join a Superannuation Fund, in accordance with the rules of any such scheme. Applications, should give full particulars of qualification, experience and age, and should be sent to Civil Engineer, the Railway Executive, London Midland Region, Euston Grove, London, NW.1. 1891

CADBURY BROTHERS, LTD., require an ARCHITECTURAL ASSISTANT, with knowledge of industrial design, to assist in de-signing large factory units. Write, stating age, experience, and salary required, to E.M.A., Cadbury Bros., Ltd., Bournville. 1940

A RCHITECTURAL DBAUGHTSMAN (JUNIOR), 21/25 years, required by City Building Surveyors. Salary 26 p.w., with good scope and prospects. Box 1955.

EXPERIENCED ARCHITECTURAL ASSIS-TANT required in the Swansea office of Sir Percy Thomas & Son. Preferably A.R.I.B.A. Apply, with full particulars, to Sir Percy Thomas & Son. 2, Northampton Gardens, Swansea. 1956 ARCHITECT'S SECRETARY required. Able to assist in drawing office an advantage. Part-time secretarial work considered. Box 1968.

WEST END London firm requires ARCHI-TECTURAL ASSISTANT, qualified R.I.B.A., with office experience, in preparation of working drawings, preferably in connection with industrial building. Write, stating quali-fications, etc., and salary required. Box 1962, or telephone Welbeck 8962.

A RCHITECTURAL ASSISTANT required, of at least Intermediate standard, for housing and light industrial work. Salary £400-£500 per anoum, according to experience. Messrs. E. O'Sullivan. Ltd., Cray Avenue, St. Mary Cray, Kent. Telephone ORP. 3737. 1963

ACHI. Telephone OKP. 3737. 1963 A BCHITECTURAL ASSISTANT required for duty in London offices of large Oil Com-pany. Previous experience as Architectural Draughtsman, age 25 to 35. Salary according to age and experience. Write, with full informative detail, and quoting No. 36, to Box 4003, c/o Charles Barker & Sons, Ltd., 31, Budge Row, London, E.C.4. 1967

1967 A Midland country practice. Intermediate standard. Salary £300 to £500, according to capabilities. Write, stating age and experience. Box 1978.

WANTED.-ASSISTANT ARCHITECT for Works in the West Riding of Yorkshire; thoroughly experienced. Apply Box 1979.

A RCHITECTURAL ASSISTANT, A.R.I.B.A., required for Consulting Engineers' office. Write, giving age, experience, and salary required, to J. H. Coombs & Partners, Darby Gardens, Sunbury-on-Thames.

A BCHITECTURAL ASSISTANTS (TWO), Senior, required for Dublin City office, Eire. Expert knowledge working drawings, building construction and alteration works, also Hospital and Institution design. £500 to £750 per year. Enclose copy of references. Box 1981.

NORTHERN RHODESIA.-Leading firm Chartered Architects and Engineers require qualified SENIOR ASSISTANT. Two years' contract; prepared fly out. Full details age, marital status, qualifications, experience, and salary required, to Overseas Architects Service, 5, Welldon Crescent, Harrow. 1982

JUNIOR ASSISTANT, neat draughtsman, capable of preparing working drawings and details. R.L.B.A. Intermediate Standard. Devon-shire Office. Box 1999.

A RCHITECTURAL ASSISTANT, Intermediate A Standard, previous office experience essen-tial. Full particulars and salary required.-H. S. W. Stone & Partners, F/F.R.I.B.A., 20, The Crescent, Taunton. 2000

SENIOR ARCHITECTURAL ASSISTANTS required, Yorke, Rosenberg and Mardall, 2, Hyde Park Place, W.2.

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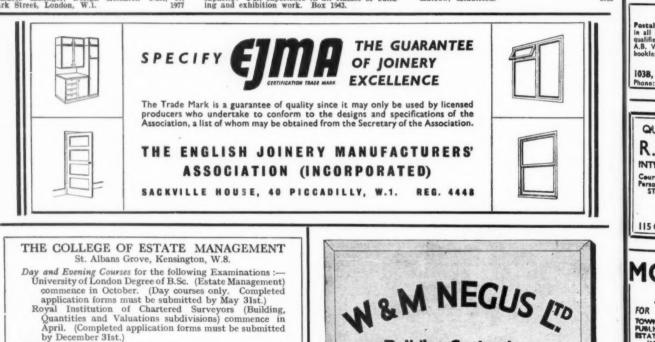
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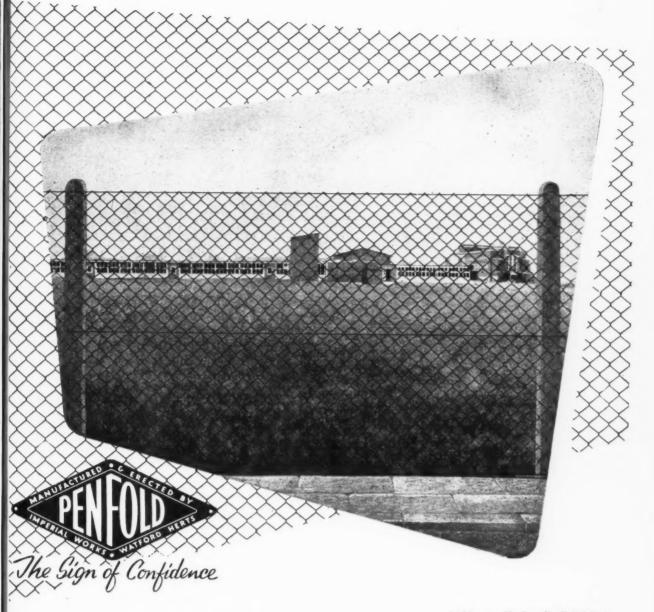
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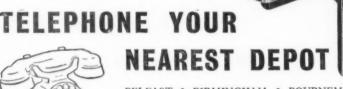


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