ARC



tandard

contents

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

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Architectural Appointments Wanted Vacant and

No. 31121 [Vol. 120 THE ARCHITECTURAL **PRESS** 9, 11 and 13, Queen Anne's Gate, Westminster, S. W. I. 'Phone: Whitehall 0611

TDA TPI TTF WDC

Price Is. od. Registered as a Newspaper. * A glossary of abbreviations of Government Departments and Societies and Committees of all kinds, together with their full address and telephone numbers. The glossary is published in two parts—A to Ie one week, Ig to Z the next. In all cases where the town is not

ı	mentioned	the word LONDON is implicit in the address.
I	IGE IHVE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.* Sloane 8266 Institution of Heating and Ventilating Engineers. 49, Cadogan Square.
I	пвр	Incorporated Institute of British Decorators. Drayton House, Gordon Street, W.C.1. Euston 2450
I	ILA I of Arb	Institute of Landscape Architects. 12, Gower Street, W.C.1. Euston 2450 Museum 1783 Institute of Arbitrators. 35/37, Hastings House, 10, Norfolk Street, Strand, W.C.2. Temple Bar 4771
	IOB IR IRA ISE IWA LDA	Institute of Builders. 48, Bedford Square, W.C.1. Temple Bar 4071 Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3. Avenue 6851 Institute of Registered Architects. 47, Victoria Street, S.W.1. Abbey 6172 Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1. Sloane 7128 Inland Waterways Association. 14, Great James' Street, W.C.2. Chancery 7718 Lead Development Association. Eagle House, Jermyn Street, S.W.1. Whitehall 7264/4175
ı	LMBA LSPC	London Master Builders' Association. 47, Bedford Square, W.C.1. Museum 3891 Lead Sheet and Pipe Council. Eagle House, Jermyn Street, S.W.1.
١	MARS	Modern Architectural Research Group (English Branch of CIAM). Secretary:
	MOA MOE MOH MOHLG MOLNS MOS MOT MOW	Trevor Dannatt, 6, Fitzroy Square, W.1. Euston 7171 Ministry of Agriculture and Fisheries. 55, Whitehall, S.W.1. Whitehall 3400 Ministry of Education. Curzon Street House, Curzon Street, W.1. Mayfair 9400 Ministry of Health. 23, Savile Row, W.1. Whitehall, S.W.1. Whitehall 4300 Ministry of Housing and Local Government. Whitehall, S.W.1. Whitehall 4300 Ministry of Labour and National Service. 8, St. James' Square, S.W.1. Whitehall 6200 Ministry of Supply. Shell Mex House, Victoria Embankment, W.C. Gerrard 6933 Ministry of Transport. Berkeley Square House, Berkeley Square, W.1. Mayfair 9494 Ministry of Works. Lambeth Bridge House, S.E.1.
ı	NAMMC	Natural Asphalte Mine-Owners and Manufacturers Council. 94-98, Petty France, S.W.1. Abbey 1010
	NAS NBR NCBMP NFBTE	National Association of Shopfitters. 9, Victoria Street, S.W.1. Abbey 4813 National Buildings Record. 31, Chester Terrace, Regent's Park, N.W.1. Welbeck 0619 National Council of Building Material Producers. 10 Princes Street, S.W.1. Abbey5111 National Federation of Building Trades Employers. 82, New Cavendish Street, W.1. Langham 4041/4054
١	NFBTO	National Federation of Building Trades Operatives. Federal House, Cedars Road, Clapham, S.W.4. Macaulay 4451
	NFHS NHBRC	National Federation of Housing Societies. 13, Suffolk St., S.W.1. Whitehall 1693 National House Builders Registration Council. 82, New Cavendish Street, W.1. Langham 4341
	NPL NSA NSAS	National Physical Laboratory. Head Office, Teddington. Molesey 1380 National Sawmilling Association. 14, New Bridge Street, E.C.4. City 1476 National Smoke Abatement Society. Chandos House, Buckingham Gate, S.W.1. Abbey 1359
1	NT	National Trust for Places of Historic Interest or Natural Beauty. 42, Queen Anne's Gate, S.W.1. Whitehall 0211
	PEP RCA RIAS	Political and Economic Planning. 16, Queen Anne's Gate, S.W.I. Whitehall 7245 Reinforced Concrete Association. 94, Petty France, S.W.I. Abbey 4504 Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh. Fountainbridge 7631
	RIBA RICS	Royal Institute of British Architects. 66, Portland Place, W.1. Langham 5721 Royal Institution of Chartered Surveyors. 12, Great George St., S.W.1. Whitehall 5322/9242
	RFAC RS RSA RSI RIB SBPM	Royal Fine Art Commission. 22A, Queen Anne's Gate, S.W.1. Royal Society. Burlington House, Piccadilly, W.1. Royal Society of Arts. 6, John Adam Street, W.C.2. Royal Sanitary Institute. 90, Buckingham Palace Road, S.W.1. Rural Industries Bureau. 35, Camp Road, Wimbledon, S.W.19. Society of British Paint Manufacturers. Grosvenor Gardens House,
	SCR	Grosvenor Gardens, S.W.1. Victoria 2186 Society for Cultural Relations with the USSR. 14, Kensington Square, London, W.8. Western 1571
	SE SFMA	Society of Engineers. 17, Victoria Street, Westminster, S.W.1. Abbey 7244 School Furniture Manufacturers' Association. 30, Cornhill, London, E.C.3.
	SIA SNHTPC	Structural Insulation Association. 32, Queen Anne Street, W.1. Langham 7616 Scottish National Housing. Town Planning Council.
	SPAB	Hon. Sec., Robert Pollock, Town Clerk, Rutherglen. Society for the Protection of Ancient Buildings. 55, Great Ormond Street, W.C.1.
	TCPA	Town and Country Planning Association. 28, King Street, Covent Garden, W.C.2.

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Temple Bar 5006
Timber Development Association. 21, College Hill, E.C.4.
City 4771

Victoria 8815

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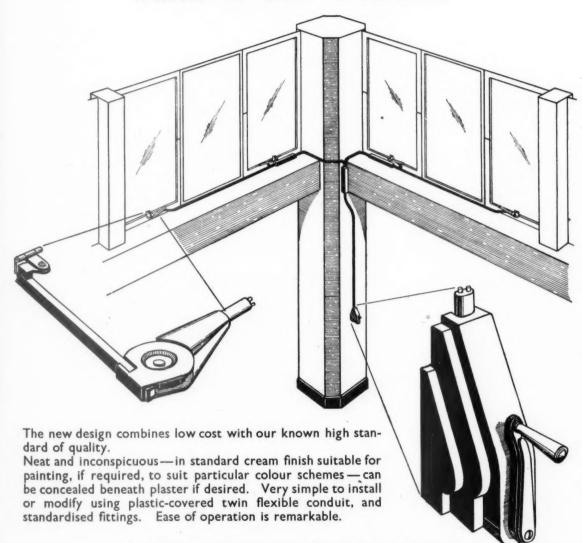
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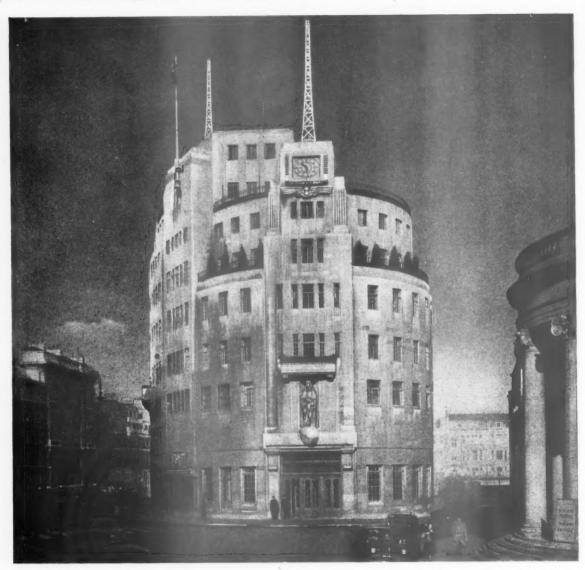
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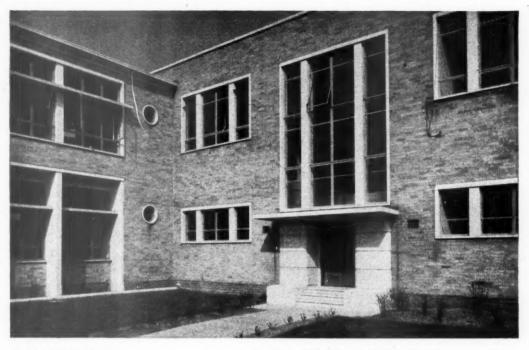
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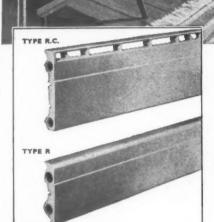
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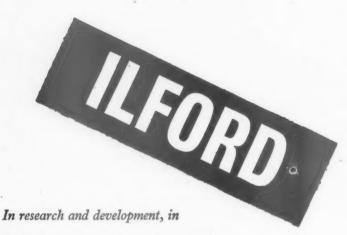
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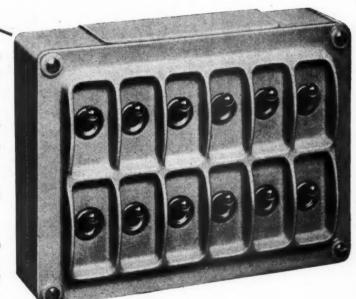


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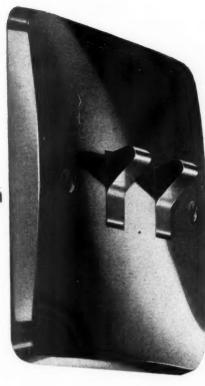
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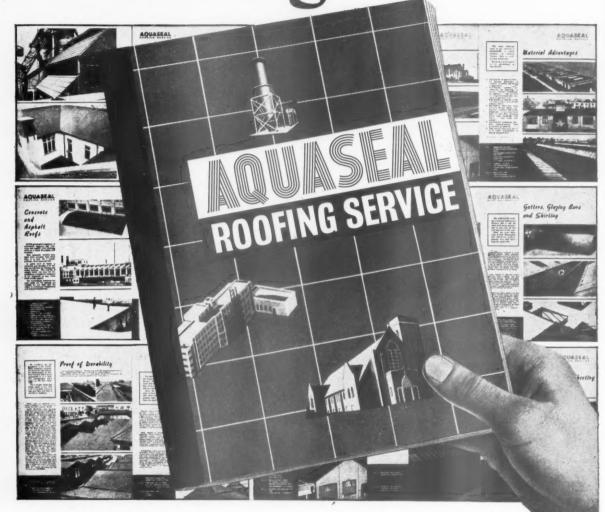
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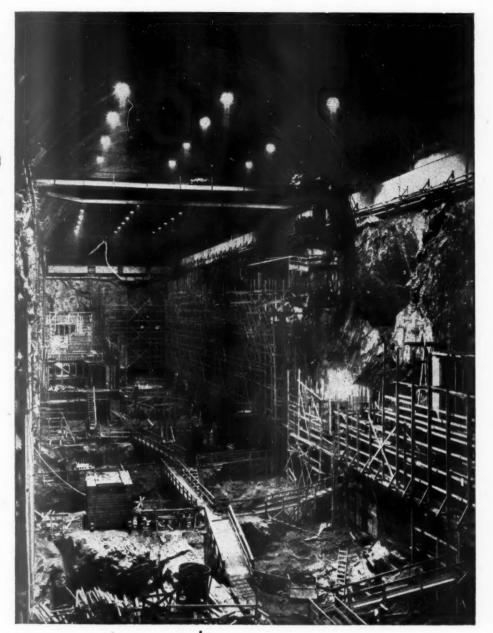
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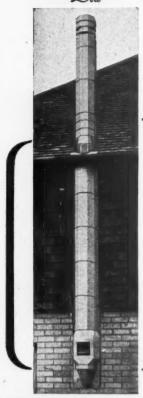
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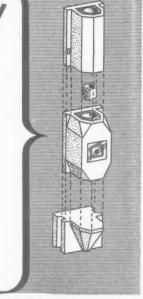


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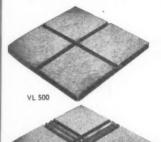
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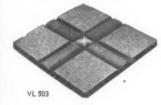
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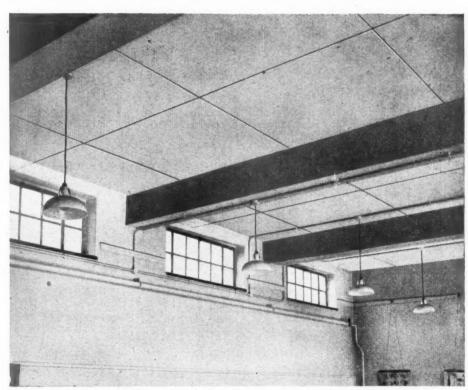
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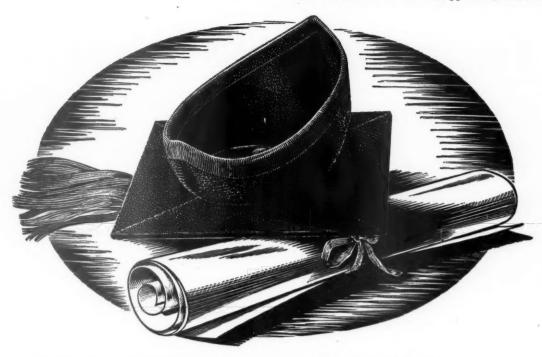
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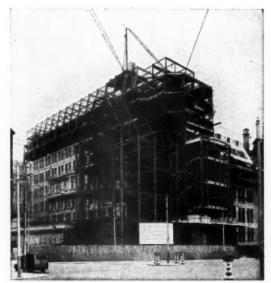
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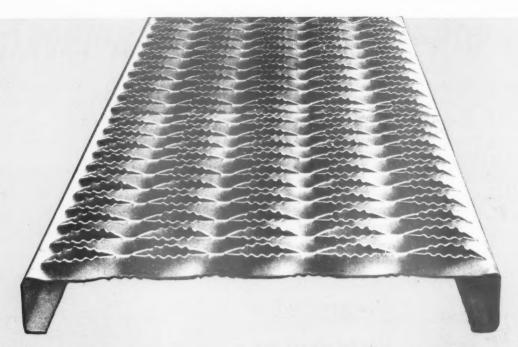
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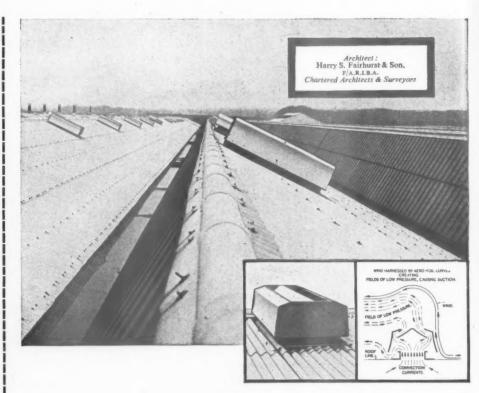
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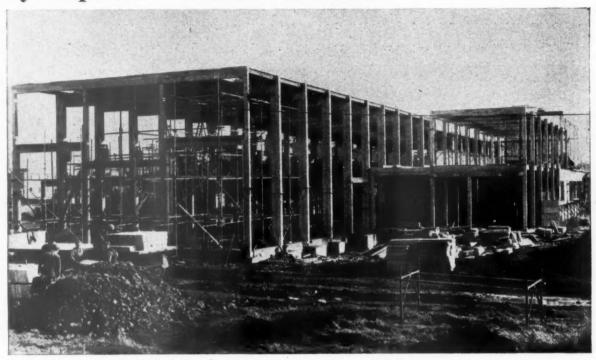
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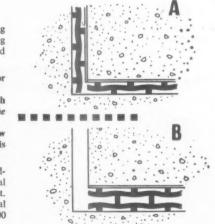
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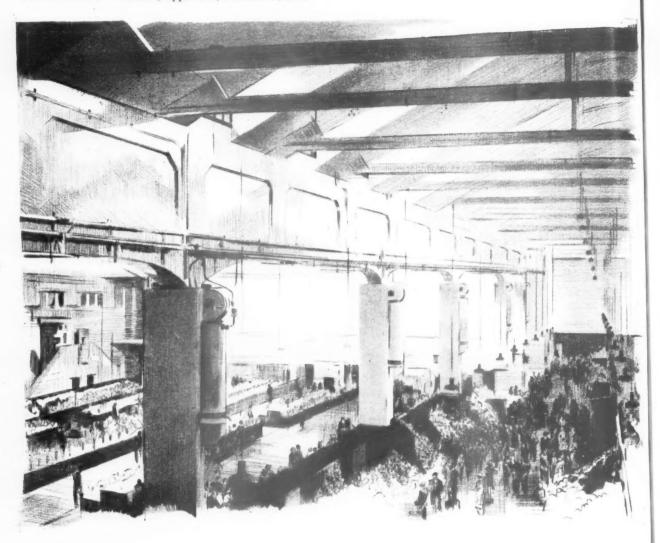
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* To preserve freedom of criticism these editors, as leaders in their respective fields, remain anonymous

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No. 3112 October 21, 1954 VOL. 120

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UNLICENSED BUILDING

It seems reasonable to assume that in a matter of months—or a year at the outside—building licensing will cease. That would be a fair construction to put upon the MOW's decision to have a quarterly return of labour (expressed in operatives employed) and output (expressed in pounds sterling) obtained by the random sampling of 15,000 of the country's 130,000 building and civil engineering firms. It is to replace the present quarterly return and will eventually replace the monthly site return (Form C.P.S. 23) now in force, when licensing control is lifted. Once a year the whole industry-not just a sample -will be asked to make a return. The first forms will be despatched next week, and representatives of all sections

of the industry have, apparently, been consulted on the questions they put.

Why, one might ask, replace one form by another? Not, apparently, in order to keep regional MOW staffs occupied, as unkind minds might think, but because the government cannot afford not to know what the country is spending on capital investment and what the state of employment in the building industry is. The information asked for is divided into several sections: houses and flats (public, private and repairs); industrial work, commercial work, and other work (which will include hospitals and schools and nationalized industries). The interest to the architect lies, possibly, in the fact that from this breakdown it might be possible to discover the annual value of the work which is being undertaken, or should be undertaken, by architects.

It is anybody's guess, of course, what could happen if licensing controls were lifted. Presumably one could be certain that building costs would rise in the way customary whenever the builder is faced with the unfamiliar. What one wants, of course, is not *more* building, but less, so that builders don't find it quite so easy to make money without trying.

FLOORED

For a brief moment ASTRAGAL was able to visit the carpet exhibition at the Tea Centre before it closed last week. It was, on the whole, competent but disappointing. Can it be that carpet designs, like wallpapers, are best thought of as ephemeral, fashionable articles until time has, by chance, made them valuable? The copies of tradi-

tional designs were boring, the "modern" designs banal. Stripes, spots, vegetation and amorphous shapes now merely irritate. Can it be that a room's fourth face must only rely on colour, or risk disrupting the whole interior design?

ASKED TO COVENTRY

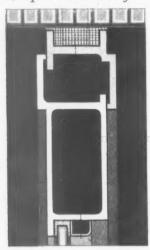
The enterprising Coventry Society of Architects asked the modular coordination gang to Coventry last week to see their post-war work. Representatives of BSI, of BRS, the European Productivity Agency's delegates to the study conference on modular ordination, and members of the Modular Society all attended. The visit was a great success. When the visitors were not occupied by eating they were being whisked round housing estates and over multi-storey schools, so there was little need for conversation. Language difficulties (there were 11 different nationalities present) did not therefore arise. Modular co-ordination, for all except Mark Hartland Thomas, is a most difficult subject to discuss anyway, without having Tower of Babel effects added.

Peter Newnham, of the MOE, described the multi-storey, Bristol aluminium cum steel-frame construction being used by him for a secondary school design (in conjunction with the Coventry architects' department). An interesting system, it is not, from a modular point of view, as yet entirely satisfactory. The high spot of the day was Coventry's first comprehensive school at Broad Lane. The construction (Hill's Presweld and concrete cladding) is familiar to readers. The masterly handling of a school of this size (1,100)



HOPE'S

pioneers since 1818 with the cup pivot, lok'd bar joint, cam opener, 2-point handle and friction hinge



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HOPE'S ALUMINIUM TUBULAR SECTIONS

have been designed for doors and large opening casements where narrow frames around large glass areas are required. The sections are flanged, hollow oblongs of enormous torsional strength, yet light in weight and appearance.

HENRY HOPE & SONS LTD

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MEMBER OF METAL WINDOW MANUFACTURERS ASSOCIATION





"A 19th century re-orientation of Hawksmoor's church, St. George's, Bloomsbury, made fairly complete nonsense of the architect's nicely-balanced interior," writes ASTRAGAL. "The nonsense has now been made complete, both by the work done to the main altar (see page 484) and by the intrusion of a pseudo-Gothic screen in the eastern apse. The screen pulls the whole church out of symmetry." (Above: left, before treatment; right, after.)

children now, to be increased to 1,750) is not. All credit to the Coventry architects' department and the MOE's Michael Smith. Indeed the chairman of the EPA party, J. W. Janzen of the Netherlands, commented—although the school was far from finished—that it was the best example of partially pre-

fabricated, modular work that he had seen anywhere in Europe. "From my heart," he said, "I feel that it is superbly well done."

In addition to its structural interest this school shows how needless, with clever handling, are the fears of those who think that comprehensive schools will be physically (as apart from numerically) too large. With separate houses, and several carefully placed three-storey classroom blocks the total site built on is, I'll wager, little different in size from many of the well-known

A Soho replanning project, designed by Edward D. Mills, G. A. Jellicoe and Ove Arup. See page 488.





St. George's Goes Gothic



Alterations have been carried out recently in Hawksmoor's church, St, George's, Bloomsbury. The picture on the left shows what the main altar looked like before the "improvers" got at it, and changed it in the manner shown above. No one can object to alterations and modifications in our churches on principle. Indeed, by making alterations the Church of England has often given us some of our most picturesque architectural glories. But this has happened only when live architecture of one period has been grafted on the live architecture of the past. At St. George's the broken bones of a dead style have been grafted on to a masterpiece. The inner history of this church is very odd; the reasons for re-orienting it so that the main altar was moved into a transept were probably more obvious to nineteenth-century ecclesiologists than they are to us. But if the altar needed a new communion rail, there were two ways of providing it which would not have given offence. The first (and cowardly) way would have been the finding—or copying—of an altar-rail of Hawksmoor's period. The second way (which might have produced a masterpiece of live design) would have been the commissioning of a contemporary rail. As it is, the shade of Hawksmoor has been insulted by a piece of botched-up Gothic-revival-revival. (And those "Gothic" pews do not beautify the scene.) A more elaborate insult in the same church is illustrated on page 483.

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public schools on which the comprehensive school idea is based.

UP THE COLLAGE!

In an unguarded moment last week ASTRAGAL, who had been invited to the ICA's collage exhibition, asked rhetorically and publicly: "Why bother with collage anyhow?" The floodgates of historical erudition were opened on all sides of him.

It appears that all those pretty studies in texture and contrasting materials which our youngers and betters do in their first-year courses can ultimately be traced back, by way of Moholy-Nagy and who-have-you, to the time-saving gesture of Georges Braque, who decided that it was much less trouble to paint with scissors and paste. The fact that one's great-grandmother used to do the same thing in her scrapbook has, apparently, nothing to do with the case.

Nevertheless, many visitors to the collage exhibition at the ICA, will probably feel inclined to say (as a change from "Little Willy can paint better than that") "Our Gran was a dabster at this." But they will not be able to say as much as that until they have recovered from the display technique, which shows strong evidence that the New Brutalists have been at work. The paste-ups are displayed on or behind sheets of square-grid reinforcing, hung on what appears to be lavatory chain, and grounded in hollow breeze-blocks. This might sound a bit clever-clever, or an attempt to take the rise out of exhibitions generally, but it goes very well with the exhibits, which are a bit rough and rusty themselves, and were (one darkly suspects) an attempt to take the rise out of the fine arts.

THE NEW MINISTERS

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When the new cabinet has settled down ASTRAGAL hopes to hear that Duncan Sandys, the new Minister of Housing, is showing an interest in aesthetics, as well as numbers, in house building, and that Nigel Birch is following in Sir David Eccles's footsteps, as Minister of Works, by making forthright comments on the restrictions that produce unsightly office blocks in the City of London.

ASTRAGAL

POINTS FROM THIS ISSUE

Soho replanned:	a project			• •	 pages	483 and 488
Housing by Powell	and Moya	: at	Gospel	Oak	 	page 496
Experimental Fla	ats in Gothe	nburg	g		 	page 503

The Editors

A CHIEF ARCHITECT'S RESIGNATION

THE profession was surprised to learn last week that Donald Gibson, Coventry's City Architect and Planning Officer, had accepted the post of County Architect for Nottinghamshire. As the Lord Mayor of Coventry has since written: "The name of Donald Gibson and Coventry are synonymous with the life of the city." The success achieved in the rebuilding and replanning of this blitzed city is due largely to Gibson. With a good team of architects and planners, and by his careful choice of private architects, he has set a standard of design in the schools, the housing and the city centre which leads the whole country and has international fame. One might well ask what factor could persuade a man in such an eminent position, and in the full flood of his building programme, to leave office for the comparative obscurity—for him—of a county architect's office.

The reason is not to be found in promotion—the salary increase is trifling—nor in a desire for a quieter life (if, indeed, a county architect's post is necessarily quieter, and Donald Gibson is only in his forties, and as active as ever). He left Coventry because his carefully considered proposals for the efficient organization of his department were rejected. His proposals were partly the result of the report by the Treasury's O and M team on Coventry Corporation, commented on in the JOURNAL of February 18. Part of the recommendations, in brief, were that four senior architectural posts should be created to handle housing, schools, other buildings and development work, each group leader being responsible to the relevant committee and thus freeing the city architect in part from endless committee work so that his undoubted skills as a planner and architect could be used to the full. Such a proposal for spreading responsibilities so that the abilities of senior, highly skilled architects are fully utilised on creative work were proposed by the JOURNAL's eminent team of guest editors (of whom Donald Gibson was one) in 1952.

Naturally four such senior posts deserve rather higher salaries than assistant architects. For men responsible for designing buildings in annual programmes measured in hundreds of thousands of pounds Gibson was apparently proposing a modest salary of about £1,300 a year. The corporation were prepared to offer only three-figure salaries—in other words, more responsibilities for little, if any, increase in remuneration. The corporation's position is, of course, indefensible, and would appear to be a typical piece of political discrimination against

professional services. One can readily imagine the worthy socialist economic muddle-headedness from which it arises. Donald Gibson has taken the logical step. When, after every endeavour to show the value of his recommendations, his advice was rejected, he applied for another post. That might have been the end of the story if the architectural department. and others, had not written to the newspapers and to the Corporation in protest at the loss of this eminent local figure. As we go to press we learn that the Lord Mayor has asked Nottinghamshire to release Donald Gibson from his promise to take up the post of county architect, for apparently there is "nothing in the differences between Gibson and Council which could not be resolved by goodwill on both sides." So the story may yet end happily, and in any event an example has been given to public architects everywhere of the deliberate sacrifice by a chief architect of a post in which he had devoted all his talents and energies for years in protest against abuse of the architect's professional status. It is to be hoped that the sacrifice will not be necessary, or, if now unavoidable, will not have been made in vain.

D. G. Marshall S. Pienaar du Toit David Dobereiner and Derek Flower, Students R.I.B.A. John Voelcker, A.R.I.B.A.

Hunstanton: Is it "Introspective"?....

SIR,-However "new" the "brutalism" of the Hunstanton School illustrated and commented upon in the JOURNAL of September 16, 1954, the question which it invokes is, surely, an old one. It is an inward-looking, brooding kind of architecture, not merely "structurally honest" to a greater degree, but in an entirely different and unsparing way, deliberately discarding the honesty of the clock in favour of a brand more appropriate to the psychiatrist's couch.

However, the question still arises whether artistic expression is merely a matter for this kind of introspection. It may be so, but to

assume this may, on the other hand, be to court a disastrous critical fallacy. Perhaps then it is upon the resolution of this ques-tion, more than upon anything else, that the future of the New Brutalism depends. D. G. MARSHALL.

Grimsby.

....or "Rooted in Facts"

SIR,—The very controversial nature of "The New Brutalism" can serve to crystalize our ideas and even influence our architectural thought to such an extent that we may find an answer to the moral, asthetic and spiritual needs of real architecture. Congratulations, therefore, to the JOURNAL for its leader (September 16) and subsequent publication of letters.

We can see in Hunstanton the combined order of the plan and new constructional methods with the plastic emotions of the infinite play of light and shade—of space itself. Architectural expression rooted in itself. Arcl This, surely, is a restatement and not a development.

Have we become stifled by our own style? That is the vital question! Are we now bound by the very conceptions that gave us freedom? Are these great truths which we proved, which were emphasized, even overemphasized, and again stressed, to eliminate from our very being all pre-conceived, all dead concepts in architecture now tying us to the same endless repetition and contem-porary custom?

Possibly, in the early struggles of our epoch, this machine-age attitude was necessary and a natural outcome of our development. Now we are free! We must progress and not be swept into the backwaters of contentment and restatement.

Hunstanton is architecture. But architecture has a far greater purpose than just the creation of art—to make the world a better place for mankind to live, to work, to play and to think in. Even the spiritual elevation of "homo sapiens." (The social and psychological effect of environment!)

So the lesson we may learn is, not to let our philosophy become such an obsession, but only let it guide us to a greater under-standing of the responsibilities of true archi-tecture and the greater unity of scientific fact

and art, function and inspiration as dedicated to the greater happiness of mankind.

S. PIENAAR DU TOIT

Architecture Defined

SIR,-Yet another definition of the archi-Six,—ret another deminion of the archi-tect's job!—"Ensuring that the right design (on paper) can be built at the right time, at the right place, in the right way, at the right cost" (AJ, October 7). It is all wrong. These qualities are obviously in themselves commendable and not at all simple to achieve, requiring as they do experience and a high degree of business competence. Even some students, for all their ignorance, are not altogether unaware that these difficulties exist in the outside world of real architecture. But if, as we assume, the "architect's job" means the creation of architecture then this neat summary of Johnson Marshall's is at once incomplete, superficial and ultimately irrelevant.

The architect's approach to design has indeed not changed, in this or any other century. In fact, the urgency of the demands being made upon architects, the difficulties being made upon architects, the difficulties and complications of today's changed conditions, mean that more than ever the architect must remain true to his traditional vocation as an artist. As this is rendered more difficult by the committees and specialists who have more limited aims, so he must fight harder. This can be faced by no one but the true architect—least of all by a "team," and these difficulties are not to be overcome by exchanging his hirthright by a team, and these difficulties are not to be overcome by exchanging his birthright as an artist for a secure place in a profession providing an "economic service" to a society that is being taught to regard its buildings as simple marketable commodities.

The essence of good design arises from an urgent necessity of expressing some intensely personal formal statement, which the artist knows, a priori, to be right.

only this can be right.

We cannot escape design. But the whole tone of this editorial suggests we should try to, by concentration on the infinite details of technical and social progress. It reveals the same state of mind that received the Smithsons' Hunstanton school so suspiciously—the work of two architects who piciously-the work of two architects who at any rate appear to know where they are going in spite of their inexperience of practice. This suggested canned experience can do nothing to remedy the grave shortcomings of English architecture of today. The causes lie deeper and no patching up of deficiencies of this sort can help anybody except those who wish to turn the practice of architec-

with the truth the practice of architecture into nothing more than a racket.

We suggest that when administrative difficulties become so great that an architect's design time is seriously curtailed, an unqualified administrative assistant should be employed.

Post-war materialism has induced a fear and scepticism on the part of many architects towards those basic civilizing attributes with which humanity has always sought to imbue its works. This fear is contained in every statement of the kind we read in this editorial, in every word of this insidious propaganda for a materialist cause whose outcome only insults those it seeks to serve.

> DAVID DOBEREINER and DEREK FLOWER.

London.

A Correction

SIR,—Thank you for printing my letter in your issue of October 14. I would, however, like to correct an error. You give my qualifications as Student RIBA. I have been an Associate RIBA for some time and hold the diploma of the AA.

JOHN VOELCKER.

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MOHLG/MOW

New Ministers

Duncan Sandys (lately Supply Minister) is to succeed Harold Macmillan as Minister of succeed Haroid Macmilian as Millister of Housing and Local Government. The new Minister of Works, in succession to Sir David Eccles, will be Nigel Birch (lately Deputy Defence Minister).

TOWNS NEW

Reports Available

Harold Macmillan, lately Minister of Housing and Local Government, has presented to Parliament reports of the New Town Development Corporations of England and Wales. These reports, which are made in accordance with the provisions of the New Towns Act, 1946, give accounts of progress in each of the towns up to March 31, 1954. They are published collectively by the Stationery Office, price 17s. 6d.

MOW

Free Catalogue of Official Publications on Building

Publications on building and allied subjects, which have been issued by Government Departments and are currently avail-

ment Departments and are currently available, are listed in a booklet now published for the MOW by HMSO. Its title is Government Publications on Building: Section List No. 61.

The booklet, which is obtainable free of charge, lists under appropriate headings not only books, but series (such as National Building Studies and Post-War Building Studies), pamphlets, advisory leaflets and digests, issued by the Ministries and by the BRS and the DSIR.

RIBA

Health Conference

conference on the Design of Health A conference on the Design of Health Buildings is being held today and tomorrow at the RIBA. The papers being read are: The General Design Problems of the Hospital, by R. Llewelyn Davies, director of the Nuffield Foundation's Division for Architectural Studies; another paper of the same name by M. E. Molander, director of the Central Hospital Planning Bureau of Sweden; The Hospital from the Nursing Point of View, by Miss T. Turner, education officer from Birmingham Centre of Nursing Education, and The Hospital from Nursing Education, and The Hospital from the Medical Point of View, by J. O. F. Davies, senior administrative medical officer, Oxford Regional Hospital Board.

A report of the conference papers and discussions on them will appear in a later issue of the Journal.

Exhibitions

The Artists International Association. The council has approved a proposal from the Artists International Association that an exhibition designed to appeal to those in a exhibition designed to appeal to those in a position to give patronage in the arts in such fields as local government, education, industry and hospitals should be shown at the RIBA in the late Spring of 1955. The exhibition will include designs for murals, panels, sculpture, stained glass, paintings and graphic work and material will be selected by a committee on which the RIBA will be represented. will be represented.

Contemporary Australian Architecture.
The council has accepted the offer of the Royal Australian Institute of Architects to prepare an exhibition of contemporary Australian work for showing at the RIBA early in 1956.

The Nuffield Fellowships

The council has been told that the trustees of the Nuffield Foundation have decided to establish two fellowships for architects, tenable for a period of two years, with the object of extending facilities for post graduate work and research at universities.

The selection committee convened by the Nuffield Foundation will include Sir William Holford, and Dr. Leslie Martin will represent the architectural profession.

Building Research Programme

As the MOW had asked for the RIBA's comments on the draft Building Research Programme for 1954-1955, the Science Committee of the Association was asked to study the matter and to prepare comments. The Science Committee has now approved the draft as a comprehensive programme, but draft as a comprehensive programme, but



J. L. Nervis' salt warehouse is the subject of one of the photographs in the "Building in Concrete" exhibition at the RIBA, which opens today. The exhibition was prepared by the Joint Committee on Structural Concrete (representing the Cement and Concrete Association, the Prestressed Concrete Development Group and the Reinforced Concrete Association).

has suggested the need for more investiga-tion into the problems of building for low temperature storage in regard to both soils and materials; and also the need to expedite research work by all possible means in view of the rapid expansion of the national building programme.

Appointments

The following appointments have been made:—

University of Leeds: Hoffman Wood Bequest: RIBA Representative on Advisory Committee for Chair of Architecture: Hubert Bennett, President, West Yorkshire Society of Architects—nominated for appointment by the University.

RIBA Representatives on BSI Committees. RIBA Representatives on BSI Committees.

PVC — Pigments, Paints and Varnishes Industry Standards Committee. The Hon. Godfrey Samuel, in place of S. Kadleigh.

BMB/2 Asphalt and Pitch Mastic for Building Purposes. A. J. Fagg, in place of G. Fairweather.

Conference to consider BS for fire-cast concrete eaves gutters. F. Heaven.

Ministry of Works Building and Civil Engineering Regional Joint Committees. The Minister of Works has under consideration the future of the Regional Joint Committees and in the meantime had decided to extend the period of appointment of existing representatives until further notice.

SOHO

A "Glass Age" Scheme

Soho has been replanned (writes a correspondent), in a scheme which uses a lot of pondent), in a scheme which uses a lot of glass, by Edward D. Mills, G. A. Jellicoe and Ove Arup. This project, which is illustrated on page 483, includes glass-bottomed canals, glass-bottomed punts, glass-faced concrete and glass windows. In addition, Soho's existing roads are roofedin with glass.

Some time ago Pilkington Brothers Ltd. asked the three consultants named above to become a Glass-Age Development Com-mittee and to decide which area of London mittee and to decide which area of London they would like to develop in the year 2,000 A.D. After "months of objective thinking" the Committee produced its Soho scheme, and this was shown to the Press with the assurance that "no claim is made that this wholly imaginative scheme . . . should be adopted overnight. . . . It is purely to stimulate thought, not only so far as Soho is concerned, but wherever people are thinking in terms of a better age—The Glass Age."

The Glass-Age Committee has preserved

The Glass-Age Committee has preserved Soho as it is today in a glass, air-conditioned case (atomically controlled). Below it would be car parks: above it, 24-storey flats (in six blocks) with water fences (or canals), restaurants, entertainment facilities etc. The present population of five thousand people would be doubled or trebled.

Although the plan "envisages no inter-ference with Golden Square," no reason is given for this decision. Soho Square would also be preserved, and a new one would be created around St. Anne's Church.

The inhabitants of the top flats would have the novel experience of being immediately beneath helicopter garages. These garages can be seen in the drawing on page 483. They are not designed to accommodate the overhead-rotor helicopters which are shown in the drawing. They are, in fact provided for jet-helicopters which will sidle into them, according to Mr. Jellicoe, in the manner of humming birds. The flats beneath these garages "are intended primarily for people

(continued on page 490)

BUILDINGS IN THE NEWS



Houses at Ampthill, Bedford

The photograph above shows the south facade of a pair of private houses at Ampthill, Bedfordshire, designed by Max Lock and Partners. Each house contains a large livingdining-room, working kitchen with larder and cupboards, three bedrooms each with built-in cupboards, bathroom and separate w.c. and fuel store. This pair has been treated as a prototype for local authority housing which will be built later. The houses are each of 904 sq. ft. and the final cost was £1,446 (32s. per ft. sq.).

St. Matthew's Church, St. Helens, Lancs.

The parish church of St. Matthew's, Thatto Heath, St. Helens, Lancashire, in the Diocese of Liverpool has recently been consecrated and was designed by J. M. Wilson and The photograph shows the choir, sanctuary and organ gallery.

coffered ceiling is decorated with armorial bearings in panels lined with woodwool slabs, plastered. There is seating for 400 people in the nave and Lady chapel. church is of traditional construction, the walls are faced with golden brown rustic bricks and the roof covered with interlocking pantiles. Internally walls are plastered and painted cream and the king post roof trusses and boarding to the underside of the nave roof are painted blue. The cost was £29,088.

The general contractor was R. S. Ellison.



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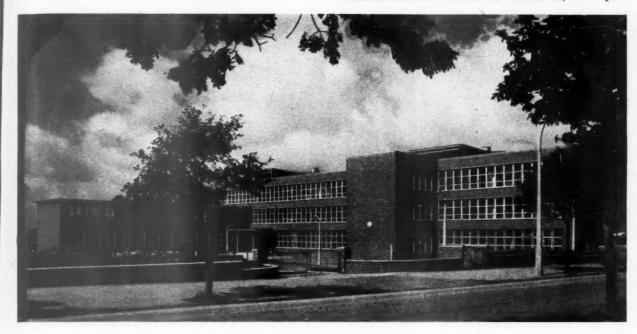
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- 3. Dining room.
- 4. Laboratory.

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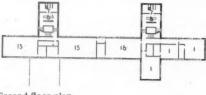
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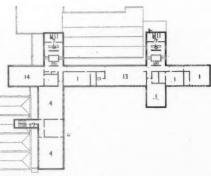
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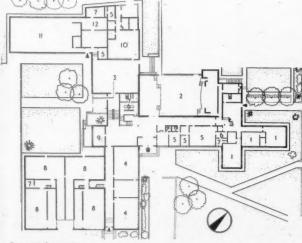
- 5. Staff room.
- 6. Cloakroom.
- 7. Lavatory. 8. Workshop.
- 9. Prefects' room.
- 10 Kitchen.
- 11. Gymnasium.
- 12, Changing room.
- 13. Library.
- 14. Art room.
- 15. Drawing office
- 16. Geography room.



Second floor plan



First floor plan



Secondary Technical School, Wigan, Lancs.

The Thomas Linacre Secondary Technical School at Wigan, which is seen in the photographs above and below, was designed by Howard V. Lobb in collaboration with G. Grenfell Baines and Hargreaves. The consulting engineer was Felix J. Samuely. This three-form entry school for 570 pupils was built in two years seven months at a cost of £202,000 (area per place, 97.72 sq. ft., cost per place £354 7s. 9d., cost per sq. ft. £3 12s. 6d.). The accommodation is mainly for technical teaching, which is required by the large local engineering and electrical industries. It is hoped to illustrate the assembly hall and workshop roofs as Working Detail Sheets in later issues of the JOURNAL. The assembly hall roof is of shell-type concrete construction with the shape of the roof in four planes in differing inclines on the cross section. The workshop block has a roof designed as a space frame.



Ground floor plan

(continued from page 488)

who can leave London at week-ends

for the country."

London is only the first of a number of areas which is to be replanned by the Glass-Age Committee.

LCC

" No " to a High Paddington

The LCC has said that it does not want Paddington Borough Council to put up three blocks of 15-storey flats because such a scheme would be "an out-and-out attack upon the whole conception of new towns and expanding towns."

That was the phrase used by Harold Marnham, when he summed up the views of the LCC at last week's public inquiry instituted by the MOHLG. It would be disastrous, said Mr. Marnham, if anything was done at this stage to hinder the progress of new towns or to discourage the increasing stream of people who were going to them.

towns or to discourage the increasing stream of people who were going to them. Arthur Ling, the LCC's senior planning officer, who also spoke during the inquiry, said he would like to see Paddington Borough Council building a neighbourhood in a new town. It was the wish of the LCC to build such a neighbourhood themselves, so that they could say that they had made a direct contribution to the housing problem. The Paddington scheme, he said, was regarded as a challenge to the population density proposals in the development tion density proposals in the development plan and a threat to the whole policy of decentralization. If the Borough Council's application were approved, it might be the forerunner of many others.

A complete report of the public inquiry will be published in next week's JOURNAL

USA

Research Award Offered

Research Award Offered

The J. C. Nichols Foundation of the Urban Land Institute will offer a grant-inaid in the amount of \$2,000 to be awarded during the spring of 1955, for research to be carried on during the academic year 1955-56 at the Georgia Institute of Technology, USA. The competition is open to any man or woman who has been admitted to the Graduate Division of Georgia Institute of Technology for study during the academic year 1955-56 in architecture, city planning, civil engineering, or industrial management. A faculty committee of Georgia Institute of Technology will nominate candidates for the award based upon the submission of an outline of research aimed at producing a better understanding of the problems of urban growth and development. The following are the general subjects within which a student may develop a specific research topic: Potential Effects of Technological and Social Change upon Urban Communities. Securing Effective Citizen Participation in Urban Planning. Methods of Enhancing the Economic Base of an Urban Community. Governmental Organization of Metropolitan Areas. Urban Growth Problem. Problems of the mental Organization of Metropolitan Areas.
Urban Growth Problem. Problems of the
Central Business District. A Programme for
Urban Redevelopment, Rehabilitation and
Conservation. Transportation Developments and Their Influence on Urban Communities. The Effect of Zoning on Land
Values: New Techniques of Zoning or
Zoning Administration. Recent Advances
in Land Subdivision Design and Control.
Long-range Programming of Public Works
and Capital Expenditure Budgeting. Urban
Sanitation, Including Multipurpose Use of
Streams in Urban Areas. Hydrology of
Urban Watersheds. Foundation Conditions
as They Affect Urban Development. The mental Organization of Metropolitan Areas.

HOUSE AT ATLANTA, GEORGIA



This house, designed by I. E. Saporta, of Georgia, USA, is of timber tilt-up wall construction; a flat boarded roof is covered with five-ply bituminous felt, and holds a one-inch deep layer of water on top to act as an insulator and to protect the bitumen. Between the roof joists there is three-ply corrugated aluminium foil insulation. The sideway sliding aluminium windows (shown in the view of the children's bedroom below), can be lifted out for cleaning by means of two spring catches. Floor area is 2,100 square feet,



Noise problem in Urban Areas. topics in other aspects of community devel-opment may be approved by the faculty committee.

Each candidate for the award is required to submit to the J. C. Nichols Memorial Award Committee of Georgia Institute of Technology, Howard K. Menhinick, Chairman, 225, North Avenue, N.W., Atlanta, Georgia, not later than March 15, 1955, the

following documents:
1. A specific research proposal which will include a preliminary outline, an explana-tion of the proposed method of accomplishing the project, and a proposed time schedule for the completion of the various phases of the project.

2. A brief biographical sketch.

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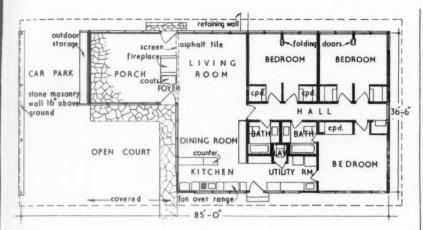
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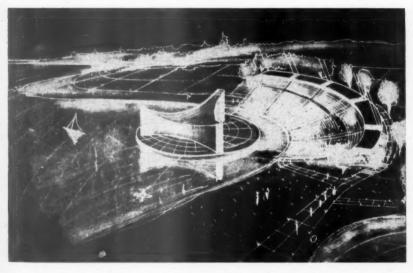
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and the cost is eight and a half dollars per square foot. The bedroom cupboards show a typical American feature which saves furniture and is economical in space. The door to the cupboard has shelves attached to the back for underclothes. Beyond this is two feet of hanging space and beyond that are further shelves for what may be called "dead storage" (i.e., out of season clothes).

AMPHITHEATRE AT COLUMBUS, GEORGIA



This open-air theatre, also designed by I. E. Saporta, and now under construction near Columbus, Georgia, uses the natural slope of the bank of Lake Robin with partial fill to provide the rake for a theatre seating 15,000 people. Off-shore will be a circular raft with Y-shaped changing rooms which act as a dividing screen between three sections of the floating stage. The raft acts, in fact, as a conventional revolving stage. The amphitheatre is to be used for church revivalist meetings, opera and rallies. There will be parking space for 6,000 cars.

3. Evidence either of (a) current enrolment in Georgia Institute of Technology in the Graduate Division in Architecture, City Planning, Civil Engineering, or Industrial Management or (b) admission by Georgia Institute of Technology to the Graduate Division in one of the above programmes for the summer quarter of 1955. In either of the above cases the committee will have of the above cases, the committee will have

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available and will review the transcript of the applicant's academic credits.

Anyone who wishes to become a candidate is requested to advise the chairman at an early date. Mr. Nichols, in whose memory the award is being made by the Founda tion, was an authority on city planning and community development in the US at the time of his death in 1950.

MOHLG

Exchanging Houses

The Ministry of Housing and Local Government wants greater co-operation between private landlords and local authorities in helping tenants who wish to exchange houses

In a circular to local authorities in England and Wales, the Ministry says: "If the best use is to be made of existing accommodation, exchanges must take place which involve the tenants of private landlords as well as council tenants." "There are still a few authorities," it says, "who are reluctant to agree to exchanges, more especially tant to agree to exchanges, more especially when they involve families living outside their own area." These should give consideration to the recommendation of the Housing Management Sub-committee of the Central Housing Advisory Committee "that local authorities should reconsider any restrictions they now improve upon exchanges. strictions they now impose upon exchanges, with a view to their removal.

IN BRIEF

It is expected that work on the foundations of Coventry Cathedral will begin in March next year.

The number of permanent houses completed in Great Britain during August was 26,843, compared with 24,837 in August, 1953.

A re-union meeting of the Old Students' Association, Leeds School of Architecture, will be held at the Great Northern Hotel, Leeds, on November 27. Old students should get in touch with A. V. Montague, Bank Buildings, Hyde Park, Leeds, 6.

An exhibition of RIBA prize drawings for 1954 is on view at the RWA School of Architecture. 25, Great George Street, Bristol, 1, until October 22.

We have been asked to state that the assessors of the Dublin church competition (commented on in last week's Journal) were not unanimous in choosing the prize-winner. The winner was selected on a majority vote.

Building in Concrete. Exhibition at the RIBA, 66, Portland Place, W.1. Weekdays, 10 a.m. to 7 p.m.; Saturdays, 10 a.m. to 5 p.m. OCTOBER 21 TO 30

AA Annual General Meeting. Address by the President, Peter Shepheard. Dinner at 6 p.m., meeting at 8 p.m. At the AA, 34, Bedford Square, W.C.1. OCTOBER 27

Prestressed Concrete as applied to Building Construction. Film at the BC, 26, Store Street, W.C.1. 12.45 p.m. OCTOBER 27

Foundations, Underpinning and Structural Problems at the Daily News Building in the City of London. By Frederick W. Slatter, and Arthur Brown. At the ISE, 11, Upper Belgrave Street, S.W.1. 5.55 p.m.

OCTOBER 28

Reconstruction in London. Illustrated talk by Percy Johnson-Marshall. At the AA, 34, Bedford Square, W.C.1. 6.15 p.m.

Rococo Art from Bavaria. Two lectures at the Lecture Theatre, Victoria and Albert Museum, Exhibition Road, S.W.7. 6.15 p.m. NOVEMBER 3 AND 10

CIVIC CENTRE

in GLEBE STREET, WELLINGTON, SHROPSHIRE
designed by C. H. SIMMONS, county architect
chief assistant, ROGER BOOTH; assistant architect, C. HOLT
town planning consultant, G. A. JELLICOE
consulting engineers, OVE ARUP and PARTNERS

Wellington is a small town of about 11,500 inhabitants lying at the foot of the Wrekin Mountain, and roughly marking the division between the industrial spread of the Black Country, the Coalbrookdale iron district and the pastoral country of north Shropshire. The town lies on Watling Street and is virtually divided in two by the railway cutting of the old London-Holyhead line. At the end of the war the Town Council found themselves left with the legacy of a rapidly-expanding town built on narrow mediaeval foundations and spoilt by the industrial activities of the last century. In 1946 the Council invited G. A. Jellicoe to prepare a new town plan, in the capacity of a private planning consultant. This plan is illustrated on page 495. The civic centre, seen in the model below, comprises public offices, library, assembly hall and police headquarters. The first part of the scheme, the police building, is now being built.

Model of the civic centre from the north-east.



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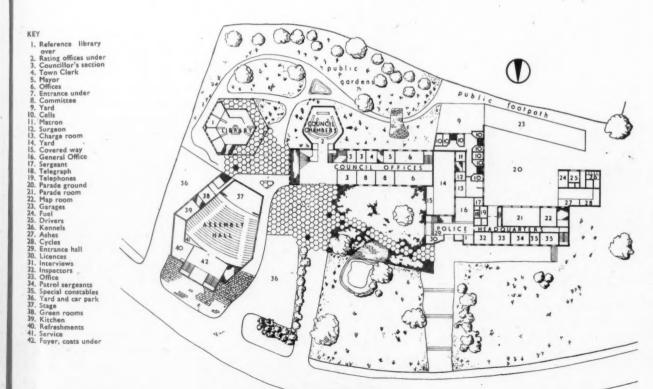




GENERAL.—The town planning consultant decided that the central area of the town needed clearing of much of its haphazard congestion and should be opened up with a new shopping area and a new town centre with a group of public buildings which the town has hitherto been without. The site of this civic centre in Glebe Street is to the south of the town and lies towards the Wrekin foothills. This new and openly planned focal point to the town would allow fine views of the Wrekin to be seen from within the town which the present narrow streets

have so far precluded. After accepting the town plan the Council asked the County Architect to design the civic centre in detail and to begin an immediate building for the new police headquarters. This building, which it is hoped to complete early in 1955, had been one of those re-sited within the town centre scheme in Glebe Street. The structural engineers were consulted before anything really took shape on paper. The model is still the basis of the design. (It was built by a member of the County Planning Officer's staff.) Plan and roof shapes were

Above, north facade of proposed council offices in the centre of the proposed group of civic buildings. Extreme left, a corner of the public hall and library.



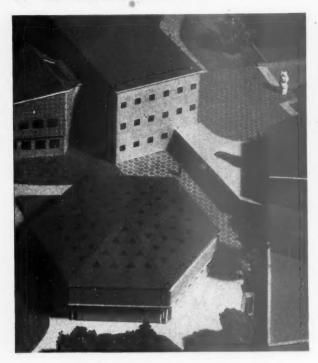
Ground floor plan and layout of Civic Centre

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Three views of the model of the civic centre. Above left, and above, the hexagonal, top-lit public library. On the left are the council offices, joined by a covered way to the public hall. Left, the public hall, designed to seat 1,500 people.

CIVIC CENTRE

at WELLINGTON, SHROPSHIRE designed by C. H. SIMMONS, county architect town planning consultant, G. A. JELLICOE

all considered structurally while the model was being made. It has been decided since the model was built that adjustments will have to be made to the shape of the council chamber and to tree planting. The layout of the centre, although not symmetrical, has its point of balance on the axis provided by the proposed new street leading up from the old town through the area to be laid out with flats and shops. The open ground north of the centre is intended to give the town a wide open space that it has always lacked. After the police station has been completed it is hoped to build the central block of council offices and the library and public hall at a later date. The assembly hall will seat 1,500 people and is planned for meetings, concerts and conferences. Part of the site for the police headquarters was acquired under compulsory purchase order. The construction is of load bearing brick walls and reinforced concrete floor slabs. Elevations have yellow facing bricks, blue Hornton stone plinths, Portland stone architraves with inner slate linings and decorative crests in wrought and cast aluminium. Interior finishes will include floors of bottle green terrazzo, linoleum and wood block. Walls will be plastered and ceilings finished with soft acoustic plaster. Cells will have thick faience wall linings. The library, which is hexagonal on plan, will have a reference section round a first floor gallery with glass lenses in the concrete roof to light the central borrowing section on the ground floor. The council

offices will be of similar construction to the police station, and will have a wide staircase leading from the entrance hall to a gallery lit by a tall semiglazed screen wall over the entrance doors. The balcony leading from this gallery is for public announcements.

The civic centre is estimated to cost £350,000. The contract price for the police headquarters £64,770. The cost per ft. cube is 5s. 3d. and per ft. sq. £3 10s. 2d. The general contractors are A. M. Griffiths & Son, Ltd. For sub-contractors see page

KEY

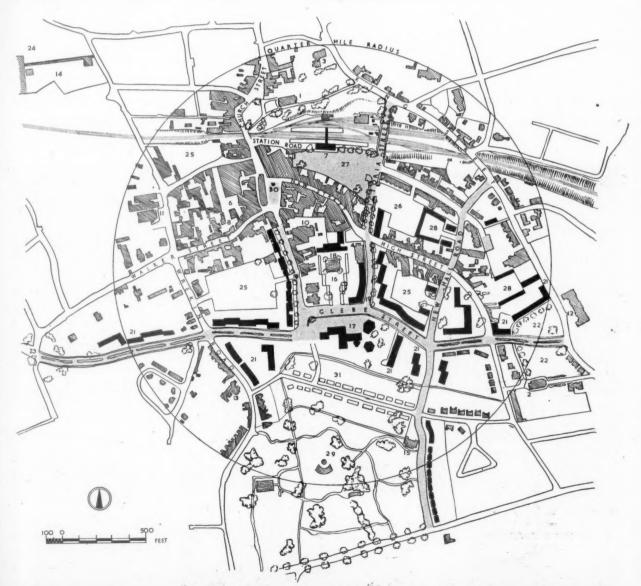
All Saints Church
 Christ's Church.
 St. Patrick's Church
 S. Methodist Chapel
 Market hall

7. New station entrance 8. Disused U.D.C. Offices 9. R.D.C. Offices 10, II. Cinema 12. Girls' Grammar school

13. Primary school 14. Cattle market 15. The Priory 16. Belmont gardens 17. Civic centre 18. Restaurant 19. Shops

20. Offices, flats
21. Domestic
22. Christ Church green
23. Gables Green
24. Abattoir
25. Car Parks
26. Central bus station

27. Station yard 28. Lock-up garages 29. Priory Park 30. Statue 31. Land to become Priory Park



Town planning proposals. (Existing buildings hatched, proposed buildings solid black, road layout essential to the plan, shaded.)

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FLATS and HOUSES

in LAMBLE STREET, GOSPEL OAK, LONDON, N.W.5

for the St. Pancras Borough Council

designed by POWELL and MOYA

consulting engineers, SCOTT and WILSON, KIRK PATRICK and PARTNERS

quantity surveyors, DAVIS, BELFIELD and EVEREST

The site for this housing estate is 3.61 acres and the clients required development at a density of 100 persons to the acre. The first part of the development, which is illustrated here, consists of the 10-storey block of flats and 22 four-room houses. Later an additional 27 two-storey houses will be built on land at present occupied by existing houses. There will be 99 dwellings when the scheme is completed.

The flats, and one block of terrace houses from the south-east.



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WORKING DETAIL

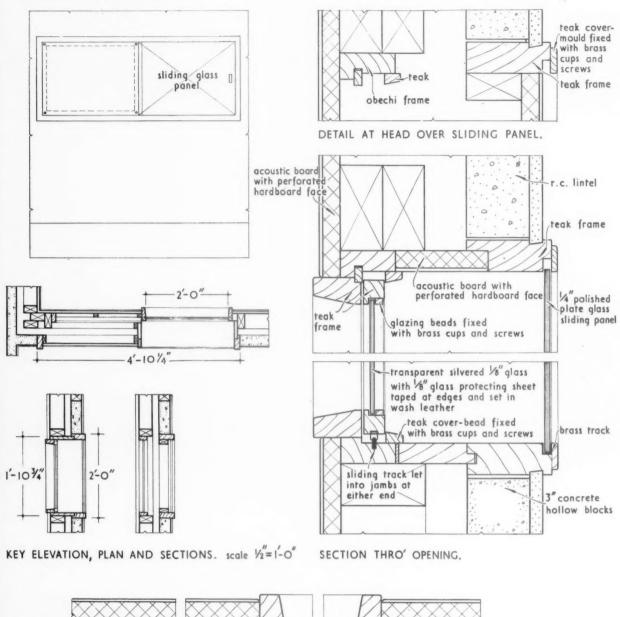
WINDOWS: 27

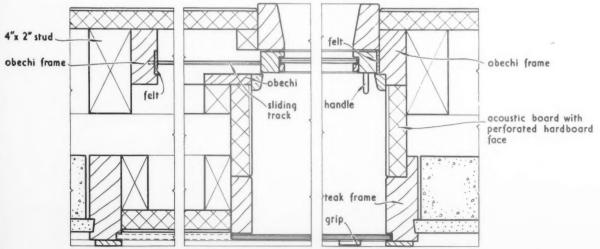
OBSERVATION WINDOW, AUDIOMETRY ROOM: HOSPITAL IN LONDON, W.C.,1



This observation window forms part of the heavily soundinsulated construction of the audiometry room. As the room is for testing the hearing of children, the inner window (i.e. that farthest from the camera) is built up from two sheets of glass with a transparent silvered surface between, so arranged that observers can watch the children without being seen by them. OBSERVATION WINDOW, AUDIOMETRY ROOM: HOSPITAL IN LONDON, W.C.1

Easton and Robertson, architects





27

WORKING DETAIL

WINDOWS: 28

WINDOW AND DOOR, AUDIOMETRY ROOM: HOSPITAL IN LONDON, W.C.1

Easton and Robertson. architects

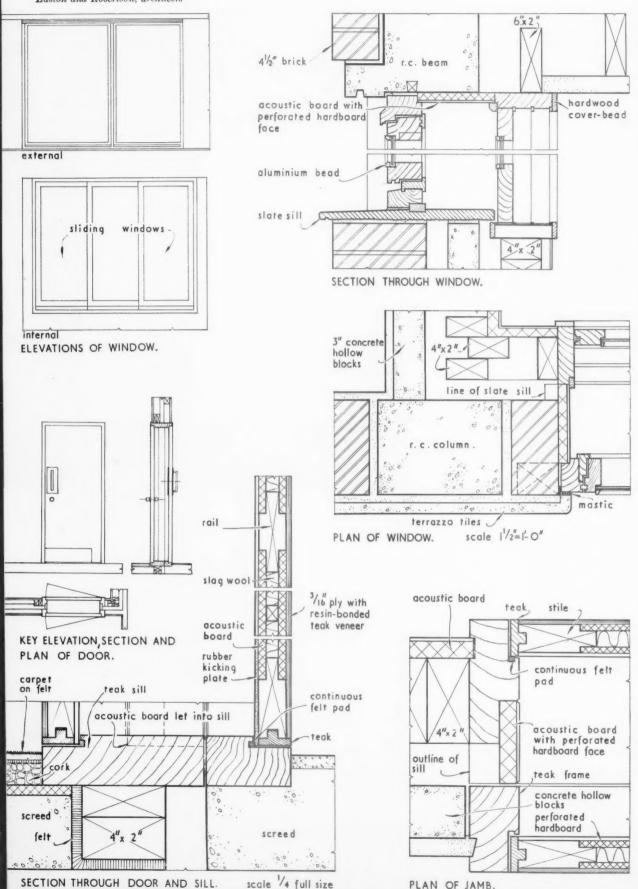


The window and door to the audiometry room are both of double construction. Each door panel consists of two skins of acoustic board with slag wool between, veneered on the outer side of the door with teak.

WORKING DETAIL

WINDOW AND DOOR, AUDIOMETRY ROOM: HOSPITAL IN LONDON, W.C.1

Easton and Robertson, architects





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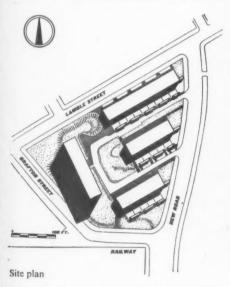
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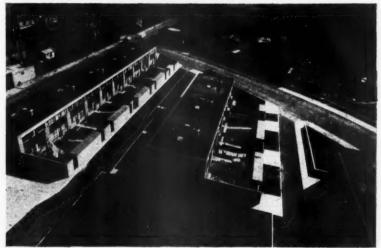
SITE.—The land was undeveloped and was used as a junk yard and dumping ground. One of the main features of the site is a large mound of built-up ground on the east side, which rises about 10 ft. above normal ground level. The site as a whole slopes upwards to the west. A new road, which will eventually be a through road, forms the eastern boundary and there is a railway cutting to the south. The land to the east may be used later for a new school. Surrounding the site there are mostly two- and three-storey houses. From above 30-ft. height there are extensive views over London and to the north over Parliament Hill Fields.

PLAN.—The 10-storey block contains 50 flats in all, of which 10 are one-room, 10 are two-room and 30 are three-room flats. The basement contains pram and bicycle stores, etc. There will be 49 houses, of which 44 are four-room and 5 are five-room houses. As the clients' requirements stipulated that about 50 per cent. of the dwellings should contain four rooms or more and the remainder one, two or three rooms, the architects decided to accommodate the smaller dwellings in a 100-ft, high block, thus releasing ground space for the rest of the dwellings to consist of houses in two-storey terraces with small private gardens. The scale of



houses is similar to those on the surrounding sites, particularly to the houses in Oak Village immediately to the north. The 10-ft. high mound was preserved and the block of flats built on it. It is claimed that the type of development chosen is cheaper than a scheme of four- and five-storey blocks of flats of load-bearing construction. As the flats are small, balcony access was chosen for economy. No habitable rooms are overshadowed by these balconies, which are as short as possible.





Top, the 10-storey block of flats from the south-west. Above, the three blocks of terrace houses seen from the flats. In the back-ground is the new road which borders the site to the east.

FLATS and HOUSES

in GOSPEL OAK, LONDON N.W.5 designed by POWELL and MOYA



Above; the south-east and north-east facades of the block of flats. The exposed concrete frame is painted dark red and light grey. The bricks are white flint limes.

FLATS and HOUSES

in GOSPEL ÖAK, LONDON, N.W.5 designed by POWELL and MOYA The main staircase, lifts and escape stairs, are in the centre of the block. One of the lifts carries eight passengers and can take a pram. This lift stops at all floors, whereas the smaller, four-passenger lift, stops at basement, ground, third, sixth and

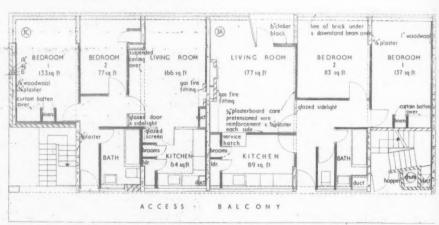
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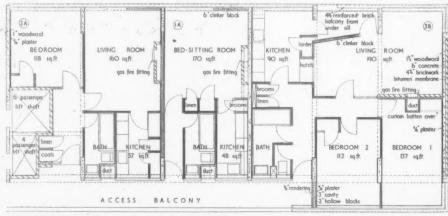
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Plan, flat types 3C and 3A. Numbers in circles denote flat types as shown on the block plans above



Plan, flat types 1A, 2A and 3B | Scate: 12 - 1'0"]

eighth floors. The houses already built all contain CONSTRUCTION.—The block of flats has a four rooms and each house has a store at the front as well as a garden store, which forms the end wall to the private garden.

reinforced-concrete basement on mass-concrete foundations, a superstructure of 6-in. r.c. party walls and intermediate r.c. frames. Floors consist

Below, the south-east and south-west facades of the 10-storey block of flats.



are in the

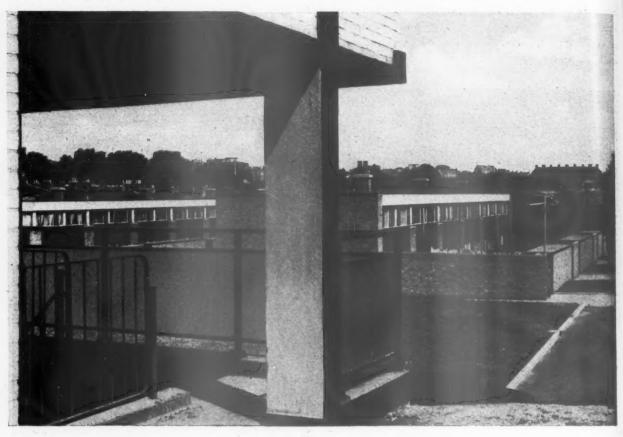
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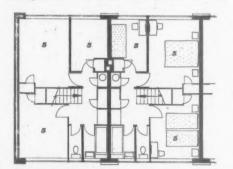
FLATS and HOUSES

in GOSPEL OAK, LONDON, N.W.5 designed by POWELL and MOYA

Ground floor plan of two terrace houses [Scale: 1'0']

of 6-in. thick precast, prestressed beams combined with hollow clinker pots with structural concrete topping. The r.c. structure is mostly exposed externally and the infilling panels are glazing or apron walls of 4½-in. brickwork, a cavity and 3-in. clinker blocks internally. The houses are of load-bearing cross wall construction with timber floors and rcofs spanning between these walls.

FINISHES.—The r.c. structure is painted dark red and light grey, externally, and soffits are white. Bricks on exposed external faces are white flintlimes. At the back of access balconies blue engineering bricks are used. The colours used on



First floor plan

Above, two of the blocks of terrace houses from the south-west. In the foreground is the top of one of the escape stairs from the block of flats. The glazed balcony fronts will be illustrated as a Working Detail in a later issue of the JOURNAL.

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KEY

- 1. Living room
- 2. Kitchen
- 3. Store
- 4. Garden store
- 5. Bedroom



private, recessed balconies are dark olive green, canary yellow and bright red and on access balconies, olive green, cherry red and bright red at the ends. Staircase soffits are painted bright red and the tank room light grey. Windows are of wood at the back of all access balconies and on exposed faces of wood with galvanized steel opening lights. Partitions, which have a plasterboard core, are wired on either

side and plastered, forming a rigid reinforced whole. Floors have sound insulation consisting of glass silk quilting on which cement screed and thermoplastic floor tiles are laid. Ceilings are plastered. The houses have non-load-bearing first floor external wall panels with an outer skin of 4½-in. rendered brickwork and an inner skin of 2-in. clinker blocks, plastered. The rendering is in blue-black spatter-

Above, the terrace houses from the south-west. Below, the north block of terrace houses. The construction is of loadbearing cross walls.



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Above, the terrace houses seen from the new road which borders the site on the east.

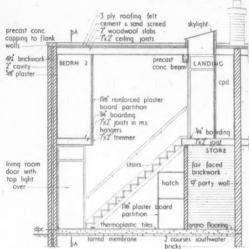
FLATS and HOUSES

in GOSPEL OAK, LONDON, N.W.5. designed by POWELL and MOYA dash, rubbed down about 48 hours after application. Window fram's of timber, are painted white for fixed lights and black for opening lights. Porches and external doors are in varying combinations of dark red, orange, yellow, olive green, grey, black and white. Partitions and finishes generally are as in the flats, except that first floors are finished with boarding. Facing bricks are London stocks.

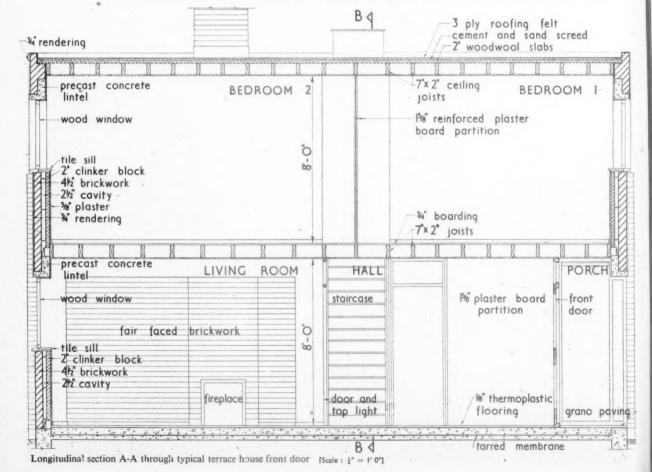
SERVICES.—In the flats there is a gas fire in each living room and electric power points are provided in each room. Water heating is by balanced flue, instantaneous gas water heaters. In the houses there are

open fires with back boilers for heating and hot water. The total contract price for the first stage of the scheme was £139,580. The cost for the flats was £98,472, cost per ft. cube 4s. 7½d. (426,220 cub. ft.) and per ft. super 47s. 1½d. (41,781 sq. ft.). For the 22 houses the cost was £41,108, cost per ft. cube 3s. 3½d. (252,035 cub. ft.) and per ft. super 40s. 5½d. (20,319 sq. ft.).

The general contractors were Sir Robert McAlpine & Sons, Ltd. For sub-contractors see page 510.



Cross section B-B through staircase [Scale: 3" = 1'0']



TECHNICAL SECTION

"European Housing Progress and Policies in 1953,"* published last month, is the first issue of an annual document prepared by the Economic Commission for Europe. It contains sections on investment, finance, rent and costs. Discussion throughout is mainly in statistical terms and is thus addressed more to the economist than to those concerned directly with building. Nevertheless, they are vitally involved. It seems that although 1953 produced more dwellings than any other post-war year, the rate was hardly sufficient to keep pace with population increase or with normal replacement, and that, quantitatively, 1953 compares unfavourably with 1937. "The high level of building costs," says the Report, "remains a major obstacle limiting the rate of house construction," and it goes on to say that "in a large measure this must be a problem to be solved by the building industry and related professions, by means of a continuous search for higher productivity." Higher productivity, as we are beginning to realise, is an ideal which must be approached by all parties to the problem acting co-operatively; but only the architect has the status to initiate such team working.

* Obtainable from: Sales Section, European Office of United Nations, Palais des Nations, Geneva. 3s. 9d.

This week's special article

ge of the flats was cub. ft.). For tt. cube

AcAlpine

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10 DESIGN: BUILDING TYPES experimental flats in Gothenburg

The number preceding the week's special article or survey indicates the appropriate subject heading of the Information Centre to which the article or survey belongs. The complete list of these headings is printed from time-to-time. To each survey is appended a list of recently-published and relevant Information Centre items. Further and earlier information can be found by referring to the index published free each year.

This week we discuss an experimental block of flats by a group of Swedish designers in which the interior of each flat is divided up by means of movable walls and storage units, designed so that they can be re-arranged at the will of the occupants.

The scheme which is the subject of this article derives from a competition held in 1951 for the design of two-room flats. The winners of this competition were a group comprising the Town Planner Tage William-Olsson, his son the architect Anders William-Olsson, Professor Hjalmar Granholm, and the civil engineer Harri Carlsson. But it was not

till later that the ideas which won the competition were put into practice in this five-storey block of flats at Järnbrott, in the south of Gothenburg, which were completed with the assistance of another architect, Lars Agren, earlier this year.

The flats have been built by a private company and have been regarded from the start as "experimental"—experi-



Fig. 1. General view showing the flats nearing completion. The balconies are constructed of precast concrete slabs supported on a framework of $2\frac{1}{2}$ -in. dia. steel tubes.

mental, both from the point of view of the local authorities, who have allowed extensive waivers of the bye laws, and from the point of view of the occupants, who—we may presume—have chosen to live in the block because of their willingness to play the part of guinea pigs.

The basic idea of the prizewinners was that space within a flat becomes notably more valuable to the occupants if they have the power to order it acording to their needs; or to put it the other way round, that space standards can be lowered without lowering living standards, provided they are accompanied

by greater flexibility.

This idea leads to a conception of a flat in which the kitchen and bathroom are predetermined, while the remaining space is left to the occupants to parcel up into living space and bedrooms according to their particular needs and wishes. Since, clearly, the disposability of the floor in this manner is dependent on each room having a window, it requires a long narrow plan with a wide frontage. At Järnbrott, therefore, the internal width of the block is only about 23 ft. front to back. In all there are 20 flats. On average these are considerably larger than the two-room, 500 sq. ft. flats of the original competition, being planned in four different sizes: 900 sq. ft., 730 sq. ft., 600 sq. ft. and 550 sq. ft. Five each of the two largest sizes are at the gable ends of the block, while eight flats of the 600 ft. size and two flats of the 550 ft. size are placed in the centre, the diminished space for the latter being occasioned by a corridor which connects the two stairways on the fourth floor.

The structure of the flats is in normal reinforced concrete frame, with *in situ* concrete slab floors. For the external walls vertical panels of lightweight concrete (with rendering) alternate with

timber framed panel insets with timber cladding. The edges of the structural floor (which support these cladding insets) are faced with hardboard cover-strips. The windows are incorporated in the timber panels, the square window type which is standard for the greater part of the accommodation being provided with a special ventilation contrivance which aims at eliminating draughts (see Fig. 4).

A circular concrete column runs up through the centre of each flat to give intermediate support in the form least compromising for the free disposal of space. The column runs straight up into the floor slab without any thickening at the head, in a manner which is now common in Scandinavian prac-

tice. But it will be noticed that the floor slab itself thickens in the area of the centreline of the block where the column meets it. Underfloor heating is provided by means of pipes bedded in sand. Lastly, following the usual Swedish precedent, there is a basement which is devoted to storage, cycles, a laundry room and a children's playroom.

Before passing to the question of how the movable partitions were constructed it is interesting to see the use the tenants made of their liberties. This can be seen by an examination of the accompanying plans, which show not merely the room arrangements but the disposition of the occupants, showing where they all sleep and giving the

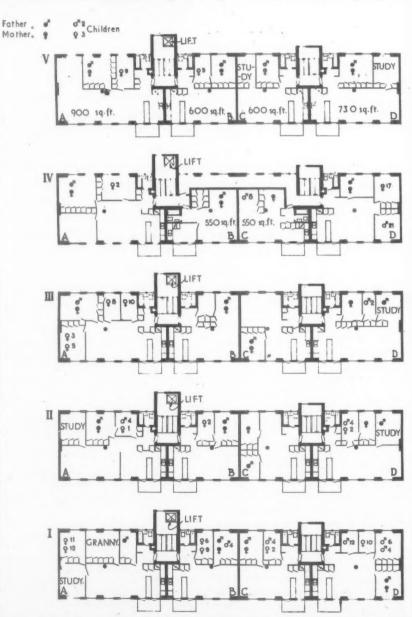


Fig. 2. Plans showing the manner in which the separate flats were divided and designating the occupants of the bedrooms. The figures beside the signs representing children indicate their ages.

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NO WAITING — EX STOCK
Use standard sizes, they save you money, time and worry

* Pattern 4. Internal.

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Parana Pine Grade I. 6ft. 6in. high x widths:

Ift. 3in., Ift. 6in., Ift. 9in., 2ft. 0in., 2ft. 4in., 2ft. 6in., 2ft. 8in., 2ft. 9in. $1\frac{3}{8}$ in. finish

Also: 4G. 6ft. 6in. x 2ft. 3in. and 2ft. 6in.

Columbian Pine Door Stock. 6ft. 6in. high x widths:

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* Pattern 44. Internal.

Parana Pine Grade I. 6ft. 6in. high x widths: 2ft. 0in., 2ft 4in., 2ft. 6in., 2ft. 8in., 2ft. 9in.

I3in. finish

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l¾in. finish

* Plywood Flush, Type SD, for painting.

(Big percentage will pass for stain and varnish).

6ft. 6in., high x widths: 2ft. 0in., 2ft. 3in., 2ft. 6in., 2ft. 8in., 2ft. 9in.

13in. finish

Plywood Flush, Type SD. Oak two sides.

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lain. finish

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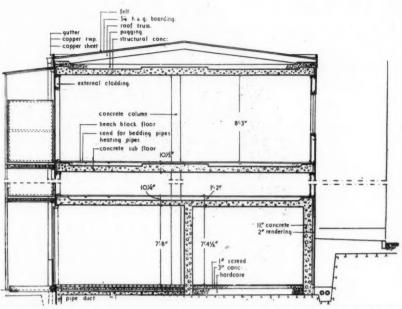
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ages and sexes of the children. These plans are easily compared since, with the exception of the two centre flats on the fourth floor, each is similar in size, shape and the disposition of windows to all the flats in a corresponding position on the other floors. It will be seen at once that the flat plans vary quite surprisingly, for no two are substantially alike. This is, of course, a tribute to the ingenuity of the system, but it is perhaps worth pointing out that it is also due to the innate Swedish unconventionality in interior arrangements. English insistence on a "hall" would have much reduced the scope of variation.

What these plans do reveal is the undoubted truth that the ordinary small family requires considerable modifications in bedroom space as the children grow up. The plans show, of course, the original arrangements as worked out by the architects and the tenants: time alone can tell to what extent the families will choose to move their walls as their needs change.

WALL UNITS

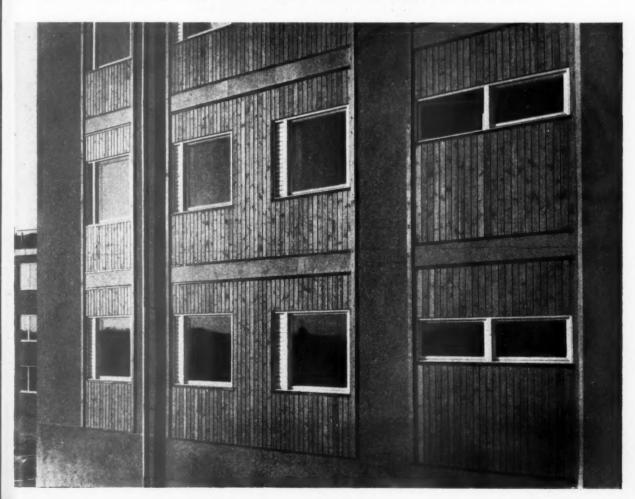
The wall units are built up from a central core of straw enclosed between two hardboard sheets, making a total



thickness of 2 in. The straw is packed horizontally and the edges of the unit are framed in timber. This form of partitioning which, incidentally, is now available in this country, is fairly common in Sweden, and, since it develops

Fig. 3 (above). Section through the top floor and the basement. Note the flat timber truss which is bolted down at both ends to the structural concrete.

Fig. 4 (below). Detail of exterior cladding showing windows with side lowres.





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The 'Polyflex' toilet seat has a flexible mounting. Breakages are very unlikely. 'Polyflex' includes a flexible PVC rod attached to the seat and firmly fitted into Polythene seat pillars. The pillars, reinforced with a threaded brass insert, are self-centering in the

WC pan with polythene washers secured by wing nuts. The 'Polyflex' seat can be fitted by the housewife without any tools, and, because of the flexible mounting, it will stay firmly in position. The 'Polyflex' is hygienic. The seat, hinge, and pillar heads cannot corrode or peel. All are easily cleaned. The 'Polyflex' is available in black, white and a range of standard pastel shades.

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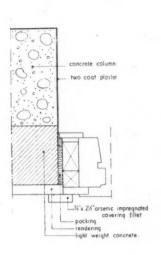
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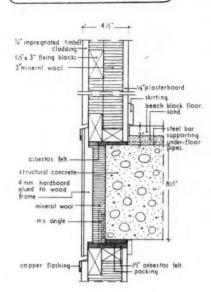
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Fig. 5 (right). Plan detail of french window jamb.

Fig. 6 (extreme right). Section through edge of floor slab. The mild steel angle is for securing the head of the panel to the slab.





a surprising strength, is classed as "load-bearing" and is often used as the inner skin of external cavity walls. It also has a good "U" value (.37) which is of small significance here, and a good sound reduction factor (34 decibels) which is, of course, critical. These units are of four basic types: one incorporating a door, one incorporating a cupboard door, a standard wall unit (which is of the same dimensions as the cupboard unit and can, therefore, serve as the back wall to the cupboards), and a smaller wall "infilling unit" to make up the difference between door and cupboard widths. These units all stand on a fillet (which becomes a threshold in the case of a door unit) which is screwed to the floor, and all are secured at the top to a ceiling fillet nailed to the concrete slab, the whole assembly being concealed by cover strips in the usual fashion. The units are joined together horizontally by grooved posts built out of two vertical sections bolted together for ease of fixing. Strips of felt are inserted in all joins in the partition for sound proofing. The system which results is (as can be seen in the photograph in Fig. 9) remarkably elegant, giving a curious Louis Seize effect, which is accentuated by the grey colouring of the panels and the white of the woodwork. It is clearly not beyond the powers of the average householder to make his internal structural alterations, nor is it beyond his power to make good the slight screwholes in the floor and the nail-holes in the ceiling.

FINISHES

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In all the rooms except the bathroom the floors are laid in small beech

blocks which have been treated with a hard-wearing lacquer. The ceilings are unplastered and show the pattern of careful shuttering. The only surfaces to be plastered are those of the load-bearing structure, for the inside face of the cladding units are finished with plasterboard. One detail which concerns the question of finishes, and which stems directly from the planning policy, is the treatment of the lighting

flexes. Except in the bathrooms, the landings and the kitchens, there are no fixed lighting points. The occupants, therefore, are left to fix hooks in the ceiling wherever they want pendant lights and to loop flexes through them, leading from sockets on the outside walls. The resulting festoons of flex have a casual appearance which contrasts sharply with the concealed runs to which we are accustomed.



the floors are laid in small beech Fig. 7. General view of a living room, tooking towards the kitchen. Note the light flex hooked to the ceiling.

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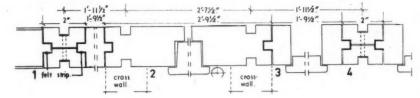
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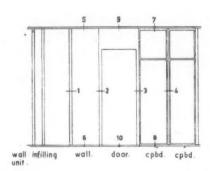
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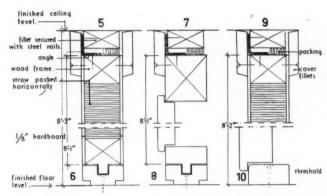
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Fig. 8. Diagrams illustrating the partition system. Below, Key diagram. Numbers relate to details on the right. Top right, plan sections. Bottom right, vertical sections.







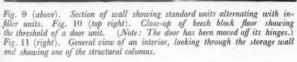
CONCLUSION

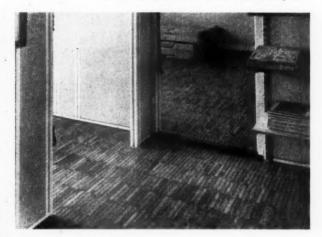
The object of the designers has been to make a fundamental contribution to the art of housing: to reduce, namely, space requirements by making space humanly more valuable, which in the end is another way of reducing building costs. As happens almost inevit-

ably with prototype work, the scheme itself was too small in scale to show the savings in cost which might follow from translation into large-scale production. In fact, the total building cost was 780,000 Swedish krona, which works out at approximately 6s. per cubic foot.

Again, the physiological point which it set out to prove, *i.e.*, the human value of the demountable interior, is a point which only time can ascertain. It is very pleasant for people to be able to arrange their room shapes when they move into a flat, but no one can tell in advance to what extent they are









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going to take advantage of this facility as their circumstances change. It will be interesting to learn whether the disinclination which most people feel for altering the interior of their homes derives from the difficulty and expense of doing this with traditional construction or from some innate and incurable lack of enterprise.

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But, whatever the conclusion, the flats at Järnbrott represent an attack on the problem of accommodation from an untried quarter, and thus qualify for universal interest.

Fig. 12 (above). A bedroom planned next to a structural wall (on the left). Notice the lowness of the win-dow (which is inwards opening) and the adjoining ventilation shutter. Fig. 13 (right). Stair-



INFORMATION CENTRE

14.69 materials: concrete LOCATION OF REINFORCEMENT

Locating Steel Reinforcing Bars in Concrete Slabs. A. C. Whiffin. (The Engineer, June 18, 1954).

Although architects may not often require to locate the position of reinforcing rods in concrete, it is interesting to learn that this can now be done by radiographic methods using apparatus which costs only about £20. This article describes the development and trial of the method by officers of the Road Research Laboratory. The radioactive source used was radiocobalt and apparently enough for the purpose can be purchased for about five guineas. Precautions have to be taken, but apparently it is not a difficult matter to safeguard the operators against radioactivity.

19.180 construction: details AGRICULTURAL WINDOWS

Steel Windows for Agricultural Use. BS 2503: 1954. (The British Standards Institution, 2s. 6d.).

Intended primarily for cowsheds, but also for some other agricultural purposes. The windows covered by this BS are in three widths and one height, made to open either to deflect incoming air or to open to full size of opening. Hopper cheeks have a release to enable the vents to pass beyond the hoppers.

25.110 water supply: sanitation SINGLE-STACK DRAINAGE

Investigations of Single-stack Drainage for Multi-storey Flats. A. F. E. Wise and J. Croft. (RSI Journal, Sept. 10, 1954).

In spite of a number of earlier papers on this subject, there seems to have been a marked disinclination to adopt the unvented single-stack system. This paper reports very fully on a careful investigation carried out by the BRS and the LCC in co-operation. It includes trials of a "laboratory" nature but also practical trials in multi-storey flats under normal usage and should, therefore, go a long way to give confidence to those interested in taking up new ideas but hesitant about being "caught." It appears that the system, if properly designed and installed, can show considerable savings in cost-as much as fifty per cent. below fully vented two-pipe systems and quite considerably below vented one-pipe systems. The authors claim not only that the system works safely but that in some respects, it is technically better.

that in some respects, it is technically better. The paper is in three main sections: (1) Definition of the problems; (2) Field and laboratory investigations; (3) Application to design. The third section deals with costs, efficiency and then with useful and fairly detailed recommendations on design requirements for avoidance of self-siphonage, induced-siphonage and back-pressure. A most valuable paper well worth reading and then filing for office reference. One wonders if all local authorities will accept its findings and allow architects to design accordingly.



LIBRARY INFORM-ATION

33.KI REFERENCE BACK

Readers are asked to note the following revisions and to amend their copies of the Information Sheet in question.

Face of Sheet, Floor Type, No. 3700: note on drawing should read " 41 in. i/d spigot for flue pipe."

Reverse of Sheet: Address of William Sugg & Co. Ltd. is now Vincent Works, Regency Street, Westminster, S.W.1. Under heading "Flues," first sentence should be deleted.

Buildings Illustrated

Wellington Divisional Police Headquarters in Glebe Street, Wellington, Shropshire, for Salop County Police (Pages 492-495). Architect: C. H. Simmons, A.R.I.B.A., DIP. T.P., County Architect; Roger Booth, A.R.I.B.A., Chief Assistant; C. Holt, A.R.I.B.A., Assistant Architect; Town Planning Consultant, G. A. Jellicoe, F.R.I.B.A., M.T.P.I., Consulting Engineers: Ove Arup & Partners; Quantity Surveyors: E. J. Rabson, A.R.I.C.S., Chief Quantity Surveyor, Quantity Surveying Section, L. G. Holes, A.R.I.C.S., Assistant Quantity Surveyor; model by L. Bacon, County Planning Officer's staff; General Contractor: A. M. Griffiths & Son Ltd.; Clerk of Works, R. H. Ingram; Subcontractors: bricks, Proctor & Lavender

510] THE ARCHITECTS' JOURNAL for October 21, 1954

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

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Flats and Houses in Lamble Street, Gospel Oak, London, N.W.5, for the St. Pancras Borough Council (Housing Manager, W. S. Davey; Borough Engineer and Surveyor, C. S. Bainbridge). (Pages 494-500.) Architects: Powell & Moya, A/A.R.I.B.A. Consulting Engineers: Scott & Wilson, Kirkpatrick & Partners. Quantity Surveyors: Davis, Belfield & Everest, General Contractors: Sir Robert McAlpine & Sons Ltd. Nominated Sub-contractors: basement tanking and felt roofing, Wm. Briggs & Sons Ltd.; asphalt paving and roofing, Excel Asphalte Co. Ltd.; thermoplastic tiling, Marley Tile Co. Ltd.; lifts, Express Lift Co. Ltd.; booster pumps for water supply, G. N. Haden Ltd.; electrical installation, Phænix

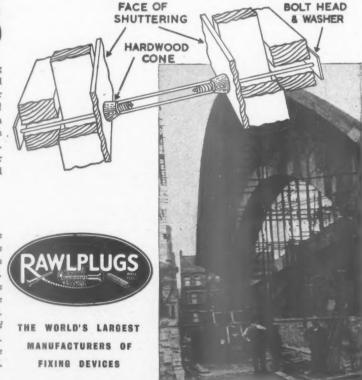
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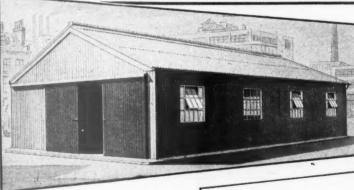
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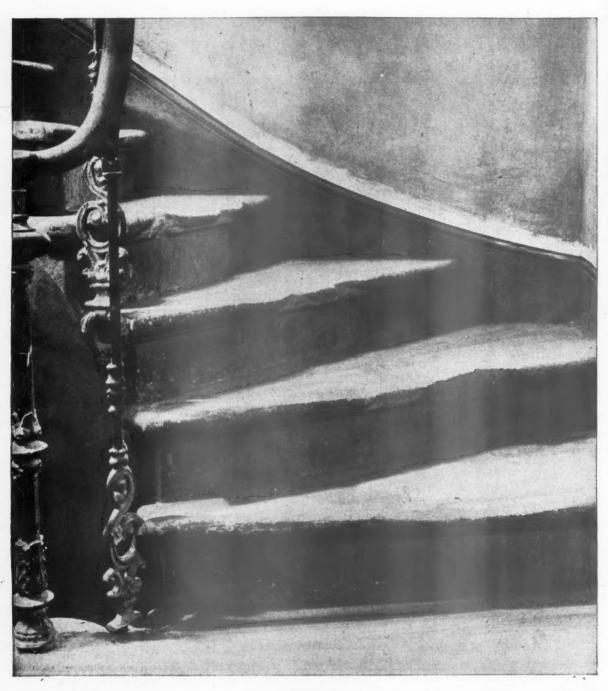


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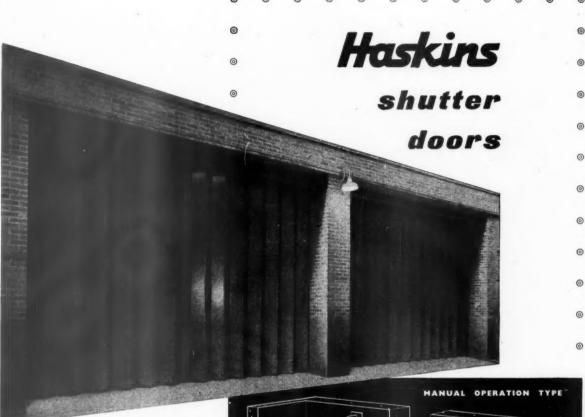
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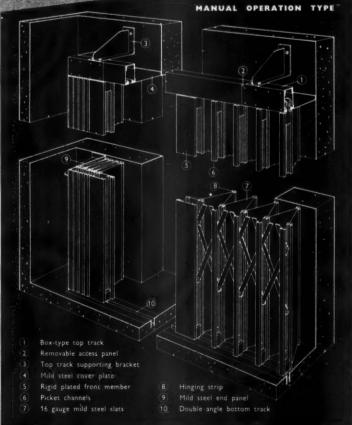
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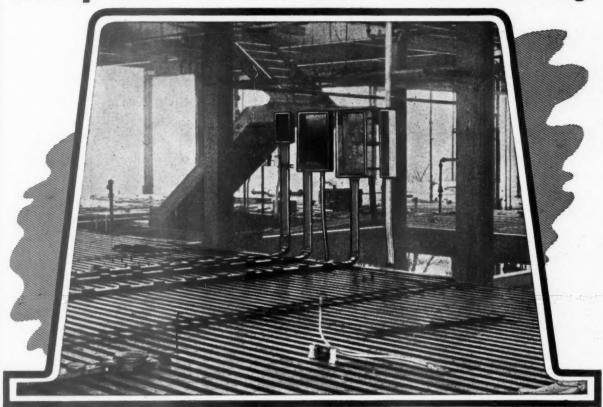
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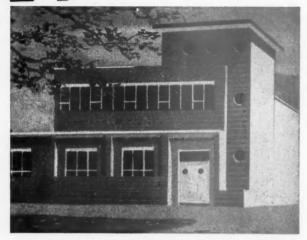
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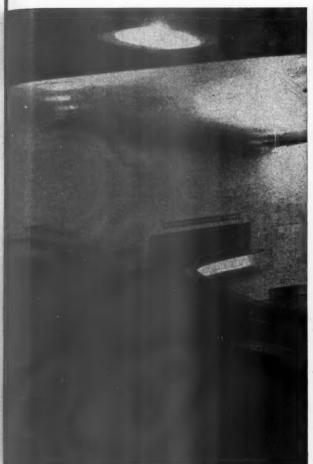
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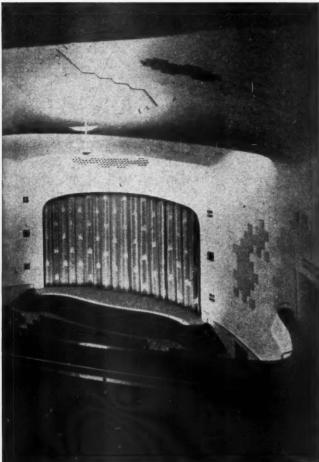
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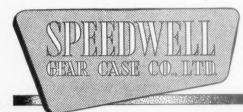
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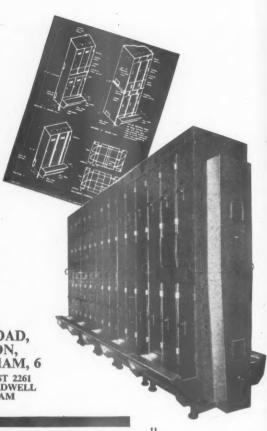
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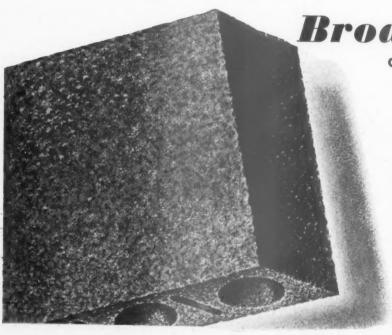
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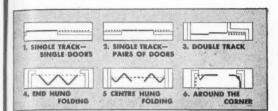
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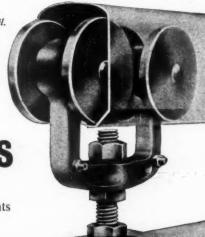
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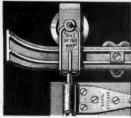
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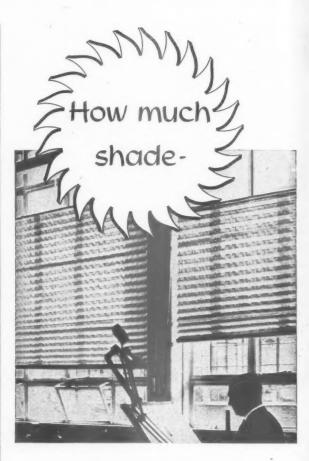


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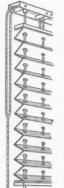
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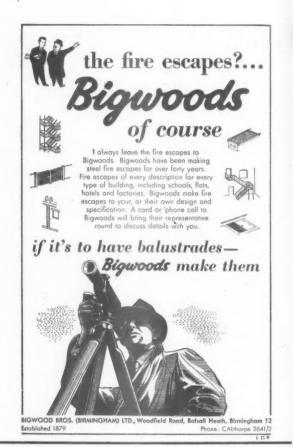
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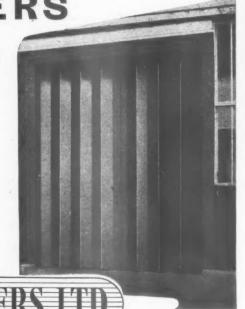
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Under (c) applicants must be Grad. I.H.V.E.

Under (d) applicants must have Higher National Certificate in Electrical Engineering.

Particulars relating to the appointments and forms of application can be obtained from Mr. G. R. Clayton, F.R.I.B.A., County Architect. Court Lane, Durham, on receipt of a stamped addressed foolsan envelope. Completed forms are to be returned to him by 1st November, 1954. Canvassing will disqualify.

J. K. HOPE,

Cierk of the County Council.

J. K. HOPE, C'erk of the County Council.

Shire Hall, Durham. 11th October, 1954.

King, Cook & Dawson-Registered Architects and Structural Engineers of Wellington and Lower Hutt. require REGISTERED ARCHITECTS and INTERMEDIATE DRAUGHTSMEN of not less than three years experience. High salaries and good prospects, and free passage assistance to successful applicants. Interview London. Write, giving full details to W. K. Cook, 224, Park West, Edgware Road, W.2.

LINDSEY COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Vacancies on the permanent staff for:

SENIOR ARCHITECTURAL ASSISTANT,

A.P.T., V/VI (commencing £520, rising to £760).

Candidates must be A.R.I.B.A.

TWO SENIOR QUANTITY SURVEYORS,

A.P.T., VIII (commencing £785, rising to £860).

Preference given to candidates holding A.R.I.C.S.

or cquivalent unalifications or experience.

TWO BILDING INSPECTORS/SURVEYORS,

A.P.T., IV (commencing £500 rising to £625).

Duties in connection with repair and minor improvements to County Buildings.

Preference for persons able to prepare rough estimates, explanatory drawings, and brief specifications.

ELECTRICAL ASSISTANT, Miscellaneous, Grade VI (commencing £550, rising to £610). Experience in preparation of specifications and schematic plans for installations.

Allowance of 25s. per week and return fare home bi-monthly may be paid up to six months to married men unable to find housing accommodation. N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications and experience, with names of two persons to whom

Council.

Applications, stating age, qualifications and experience, with names of two persons to whom reference can be made, to be sent to the undersigned by 26th October, 1954.

A. RONALD CLARK, A.R.I.B.A., A.M.T.P.I., County Architect.

County Offices, Lincoln.

County Offices, Lincoln.

BOROUGH OF LUTON.
TECHNICAL STAFF.
ns are invited for the following

Applications are invited for the following appointments:

(a) ARCHITECTURAL ASSISTANT with good general experience, particularly of schools, able to prepare detail and working drawings. Salary Grade A.P.T. V (£620/£670). Must hold appropriate qualifications. Housing accommodation may be considered.

(b) ARCHITECTURAL ASSISTANTS with previous Local Authority experience if possible. Salary General Division—A.P.T. V (£170/£670), dependent upon qualifications and experience.

(c) SENIOR PLANNING ASSISTANT, experienced in basic surveys, preparation of Town and other statutory maps; control of development, particularly design and elevations. Salary Grade A.P.T. V (£620/£670). Must hold appropriate qualifications. Housing accommodation may be considered.

neations. Housing accommodation may be considered.

(d) PLANNING ASSISTANT, competent draughtsman, experienced in preparation of statutory and other planning maps, dealing with general enquiries and local land charges additional enquiries. Salary Grade A.P.T. I-V (£490/£670), dependent upon qualifications and experience.

A. D. HARVEY, Town Clerk.

A. D. HARVEY, Town Clerk.
4400

A. D. HAKVAX,

ARGYLL COUNTY COUNCIL.

Applications are invited for the appointment of a QUANTITY SURVEYING ASSISTANT for the County Architect's Department, salary scale Grade IV-VI (£590-£770) with placing according to experience and qualifications. The post is superannuable. Housing Accommodation will be Provided if Required.

Apply giving details of qualifications, and experience along with copies of two recent testimonials to County Architect. County Offices, Dunoon, not later than 2sth October, 1954.

A. B. JACKSON, County Cierk, 4368

CITY AND COUNTY OF BRISTOL.
CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the permanent staff
appointment of SENIOR ASSISTANT ARCHITECT—Grade A.P.T. VII (amended Grade IV2765 p.a. from 1st January, 1965).
Candidates must be Associate Members of the
R.I.B.A., and have had considerable experience
in design, construction, and contract administration, preferably with a large local authority.
Experience in Multi-Storey Flat work will be an
advantage. dvantage. Housing Accommodation available, if necessary.

Housing Accommodation data and economic rent.

Further particulars and application form obtainable from me. to whom forms must be returned by 30th October.

J. NELSON MEREDITH, F.R.I.B.A...

City Architect.

The Council House, College Green, Bristol, 1. 12th October, 1954.

COVENTRY CORPORATION
require two QUALIFIED ASSISTANT ARCHITECTS, A.P.T. V (subject to review as from 1st
January): £26 p.a. (men) or £19 10s. (women),
additional local award in approved circumstances.
Application forms and conditions from D. E. E.
Gibson, Bull Yard, Coventry, returnable by 3rd
November.

SUDAN GOVERNMENT.

The Director of Education invites applications for the post of ASSISTANT DIRECTOR TECHNICAL EDUCATION AND PRINCIPAL, KHARTOUM TECHNICAL INSTITUTE, which becomes vacant in January, 1955.

Applications will only be considered from candidates who have held a similar post for at least three years, and have had administrative experience in implementing development schemes for technical education at various levels, preferably in colonial territories. In addition to the normal duties associated with the post, the successful candidate will be required to advise the Director of Education on the future expansion of technical education in the Sudan and also to be responsible for the overall administration of existing technical education facilities in the country.

This is the second advertisement for this post, and those who have already applied are still under consideration.

Appointment will be on Short Term Contract (with bonus) for five years, of which the first two will be a period of probation. Salary in the range £E.2,500 to £E.2,300 per annum. A cost-of-living allowance, which is reviewed quarterly, is payable. Outfit allowance of £E.50 is payable on appointment. NO INCOME TAX is at present payable in the Sudan. Free passage on appointment.

payable in the status and application form will be sent on application to the Sudan Agent in London, Sudan House, Cleveland Row, St. James's, London, S.W.I. quoting "Principal 1007," and name and address in block letters.

BUCKS COUNTY COUNCIL

BUCKS COUNTY COUNCIL

The Council intend to enlarge the Heating and Ventilating Engineering Section of the County Architect's Department and invite applications for the post of CHIEF HEATING AND LIGHTING ENGINEER at a salary on J.N.C. Scale "B" (£950-£1,150 p.a.) starting point in accordance with qualification and experience. A weekly allowance of 28s. and return fare home once every two months may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applicants must be qualified heating and lighting engineers and have had considerable experience in the installation of heating and lighting schemes for schools or other large public buildings. The successful applicant will be required to organise the work of the section.

Applications on forms giving further particulars of the appointment are obtainable from F. B. Fooley, County Architect, County Offices, Aylesbury, and returnable by 25th November, 1984.

GUY R. CROUCH,

Cerk of the Bucks County Council.

County Hall, Aylesbury.

BUCKS COUNTY COUNCIL.

BUCKS COUNTY COUNCIL.

Applications are invited from qualified structural engineers for the appointment of STRUCTURAL ENGINEER in the County Architect's Department at a salary on J.N.C. scale "B" (£950-£1,150 p.a.), starting point in accordance with qualifications and experience. A week'y allowance of 25s. and return fare home once every two months, may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applicants must have had considerable experience of design of steel and reinforced concrete structures and be accustomed to site supervision. Applications on forms giving further particulars of the appointment are obtainable from F. B. Pooley, County Architect, County Office, Aylesbury and returnable by 25th Novembor. 1954.

GUY R. CROUCH, County Hall, Aylesbury.

Clerk of the Bucks County Council.

County Hall, Aylesbury.

BOROUGH OF MAIDSTONE.

BOROUGH OF MAIDSTONE.

APPOINTMENT OF ARCHITECTURAL

ASSISTANT.

Applications are invited for the above appointment in the Borough Surveyor's Department, at a salary in accordance with Grade 5, commencing at £630 per annum. It is anticipated that the appropriate assimilation into the new grading scheme will take effect from the 1st January, 1955.

The successful candidate should be an Associate of the Royal Institute of British Architects or other Architectural Association, and should have had considerable experience in general municipal building work, particularly in regard to housing development, of which the Council has an extensive programme, including a shopping centre. Applicants also should have had experience in handling jobs in progress, dealing with constructs and some experience in valuations under the Small Dwellings Acquisition Acts. Where circumstances warrant, the Council will be prepared to give consideration to the provision of housing accommodation.

The appointment will be subject to the National Scheme of Craditions of Service, the Local Government Superannuation Acts, the passing of a medical examination and one month's notice on either side. Canvassing will disquality.

Applications, on forms to be supplied, accompanied by copies of two recent testimonials, must reach the undersigned not later than the 30th October, 1954.

S. F. DIXON, Borough Surveyor.

S. F. DIXON, Borough Surve

Borough Surveyor's Department, Palace Avenue, Maidstone. 15th October, 1954.

CITY OF LEEDS.
CITY ARCHITECT'S DEPARTMENT.
pplications are invited for the following

CITY ARCHITECT'S DEPARTMENT.
Applications are invited for the following appointment:—
CHIEF QUANTITY SURVEYOR. Salary scale 21,060 to 41,260 p.a.
Candidates must be Professional Members of the Royal Institution of Chartered Surveyors and have had considerable experience of large scale contracts. The successful candidate will be directly responsible for the Quantity Surveyors Section and should therefore be capable of controlling the work of a large Section covering all types of new constructional work, including Housing, Schools, Public Buildings, etc.
The payment of salary increments will be subject to satisfactory service and will be granted normally with effect from the 1st April following the completion of six months service.
The appointment is subject to the Local Government Superannuation Acts 1937—1963, and the successful applicant will be required to pass a medical examination.
Application forms may be obtained from the City Architect. Priestley House, Quarry Hill, Leeds 9 to whom they should be returned together with one testimonial, and the names of two referees, by 12 noon on Wednesday. 3rd November 1954.
Canvassing in any form, either directly or indirectly, will be a disqualification.

R. A. H. LIVETT, O.B.E., A.R.I.B.A., City Architect.
Quarry Hill, Leeds, 9.

Priestley House,
Quarry Hill, Leeds, 9.
1th October, 1954.

CORPORATION OF THE CITY OF
ABERDEEN.
Applications are invited from persons under 45
years of age for the post of DEPUTE CITY
ARCHITECT.
The selections of the post is \$1.100 rising by

years of age for the post of DEPUTE CITY ABCHITECT.

The salary scale for the post is £1.100, rising by annual increments of £50 to £1.350 per annum. Applicants must be members of the Royal Institute of British Architects and should have had experience in the design, construction and execution of works of housing schemes and obuildings of a public character, and in the care and maintenance of such schemes and buildings. Further particulars as to the terms and conditions of appointment and service may be had on request from the undersigned, with whom applications should be lodged on or before 15th November, 1954. Applicants should state age, present position, professional evaluations and experience. Each application should be accompanied by a copy of not more than three recent testimonials and should give the names of three persons who would be prepared to act as referees.

Town Clerk.

Town House, Aberdeen. 11th October. 1964.

11th October. 1964.

WELWYN GARDEN CITY AND HATFIELD DEVELOPMENT CORPORATIONS.
APPOINTMENT OF CLERK OF WORKS.
Applications are invited for the appointment of CLERK OF WORKS at a salary of 2685 per annum. Applicants should be practical tradesmen, with previous supervisory experience of all trades on substantial contracts and be competent in setting out and levelling. Experience on non-traditional housing would be an advantage. The appointment is superannuable, terminable by one month's notice on either side. The successful applicant will be assisted in obtaining housing accommodation if required.
Applications, giving age, qualifications and full details of present and past appointments, salaries and experience, together with the names of three persons to whom reference may be made should be addressed to the General Manager, 4, Wigmores South, Welwyn Garden City, Herts, and be received by 28th October, 1954.

South, Welwyn Garden City, Herts, and be received by 28th October, 1954.

BOROUGH OF SWINDON.

SENIOR PLANNING ASSISTANT A.P.T.

GRADE VIII

Applications are invited from suitably qualified persons for the above position, in the Department of the Borough Surveyor and Planning Officer, at a salary in accordance with A.P.T. Grade VIII of the National Scale of Salaries. 2785–2860 per annum. (As from 1st January, 1966, the salary range will be 2840–2990 per annum, of the salary range will be 2840–2990 per annum.)

The person appointed will be required to work in a small planning team on the planning problems of a rapidly expanding town. Preference will be given to applicants experienced in detailed neighbourhood layouts, central area redevelopment and industrial estate design.

Housing Accommodation is available.

Applications of forms obtainable from the Town Clerk. Civic Offices, Swindon, must be returned by 26th November, 1954.

OFFICE OF THE RECEIVER
FOR THE METROPOLITAN POLICE
DISTRICT.

Applications are invited for unestablished appointments as LEADING ARCHITECTURAL ASSISTANTS in the Architect and Surveyor's Department. The work is concerned with the construction of police dwellings. Rate of pay. 2665 × 425 to 2656. Women. Hours: 44 per week. Annual leave: 24 days.

Application forms from the Chief Clerk. Architect and Surveyor's Department. New Scotland Yurd. London, S.W.1, for return by 6th November, 1954.

BRITISH ELECTRICITY AUTHORITY.
EAST MIDLANDS DIVISION.
Applications are invited for the following pogion within the Division:—
SENIOE DRAUGHTSMAN (ELECTRICAL),
onstruction Department. (Vacancy No.

SENIOR DRAUGHTSMAN (ELECTRICAL), Construction Department. (Vacancy No. 114/54/AJ).
Candidates should have experience in the preparation of layouts and diagrams for the installation of E.H.T. and L.T. switchgear, transformers, E.H.T. and L.T. cables; knowledge of protective gear systems would be an advantage.
The salary will be in accordance with the National Joint Board Agreement, Grade 4 (£671-£780 per annum) of Grade 5 (£567-£671) per annum of Schedule D, according to experience.
Closing date for receipt of applications: 1st November, 1954.
This appointment will be pensionable within the terms and provisions of the British Electricity Authority and Area Boards Superannuation Scheme.

Scheme.

Applications should be submitted on the official form A.E.6/ACT, which may be obtained from the Divisional Establishments Officer, British Electricity Authority, P.O. Box 25, Barker Gate, Nottingham, and should be returned to the undersigned by the date stated. Please quote Vacancy Number.

L. F. JEFFREY, Divisional Controller. 4332

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Divisional Controller.

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CORK CORPORATION.

TWO TEMPORARY ARCHITECTS, GRADE 2, REQUIRED.

Applications are invited from duly qualified persons for the position of Temporary Architect, Grade 2, in the City Architect's Department, at a salary scale of £55 p.a., × £20 p.a. to £750 p.a., plus temporary bonus (at present 30 per cent.).

The appointments shall be for a period of 3 years, subject to satisfactory service. An appointe may be allowed to enter the scale at a point above the minimum, according to the qualifications and experience. Experience in Housing is desirable.

Applications, giving age and particulars of education, professional qualifications, and experience, should reach the undersigned not later than Monday, 1st November, 1954. There is no prescribed application form. Applicants will be required to attend in Cork for interview at their own expense.

Canvassing, directly or indirectly, will prejudice the interests of applicants.

PHILIP MONAHAN,
City Hall, Cork.

7th October, 1964.

City Hall, Cork. 7th October, 1964.

7th October, 1954.

COUNTY BOROUGH OF STOCKPORT.
Applications invited for the appointment of ARCHITECTURAL ASSISTANT Grade A.P.T. V. (2620-2670 p.a.), in Borough Surveyor's Office.
Applicants must have experience in the maintenance and alterations of existing buildings and the erection of new buildings. Some experience in estimating and Bills of Quantities desirable. Preference given to applicants holding recognised professional gualifications. The post is supersannuated, subject to medical examination. N.J.C. Conditions of Service. Applications, with details of age, qualifications, experience and appointments held, in tabulated form, and accompanied by copies of two recent testimonials to Borough Surveyor, Town Hall, by 5th November.

MIDDLESEX COUNTY COUNCIL—COUNTY
ASSISTANT ARCHITECT'S DEPARTMENT.
ASSISTANT ARCHITECT, A.P.T. V
(£620—£670 p.s. plus London Weighting) required.
Appointment at grade minimum and to established staff. Subject to medical assessment and prescribed conditions. Must be Registered Architect and experience of design of educational buildings an advantage. Application forms (stmp. add. f'scap env.) from County Architect, I, Queen Anne's Gate Buildings, Dartmouth St., S.W., returnable by 6th November (quote P 295 AJ.)
Canvassing disqualifies

STAFFORDSHIRE COUNTY COUNCIL.
EDUCATION COMMITTEE.
Applications are invited for the post of
ASSISTANT QUANTITY SURVEYOR, Grade
A.P.T. VI (£695 per annum rising to £760).
Applicants should be Members of the R.I.C.S.
(Sub Division III Quantities), or hold equivalent
qualifications.
Application Forms may be obtained from the
County Education Architect, Green Hall, Lichfield
Road, Stafford, and must be returned within
seven days of receipt.

T. H. EVANS,

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

WASHINGTON URBAN DISTRICT COUNCIL.
ARCHITECTURAL ASSISTANT.
Applications are invited for the post of ARCHITECTURAL ASSISTANT at a salary of A.P.T.
Grade IV (at present £580—£625) of the National Scheme of Conditions of Service. Hrusing accommodation will be provided if required.
Form of application may be obtained from the undersigned and should be completed and returned on or before noon on Monday, the 15th November, 1954.

ARTHUR C. JONES, Clerk of the Council.

Council Chambers, Washington, Co. Durham.

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4362

BUCKS COUNTY COUNCIL.

The Council intend to enlarge and reorganize the Quantity Surveying section of the County Architect's Department and invite applications for the appointment of PRINCIPAL QUANTITY SURVEYOR who will be in charge of the section at a salary on J.N.C. Scale "C" (£1,606-£1,250 p.a.), starting point in accordance with qualifications and experience. A weekly allowance of 25s. and return fare home once every two months, may be paid for six months to newly appointed married officers of the Council unable to find accommodation.

Applicants must have had considerable experience in the preparation of Bills of Quantities and all other duties normally undertaken by a Quantity Surveyor and be capable administrators.

Application on forms giving further particulars of the appointment are obtainable from F. B. Pooley, County Architect, County Offices, Aylesbury, and returnable by 25th November, 1954.

Clerk of the Bucks County Council.

County Hall, Aylesbury.

11th October, 1954.

BOROUGH OF PONTEFRACT.

11th October, 1954. 4365

BOROUGH OF PONTEFRACT.
ARCHITECTURAL ASSISTANT.
Applications are invited for the appointment of Architectural Assistant, in the Borough Engineer's Department, at a salary in accordance with Grade VI of the Administrative, Professional and Technical Division of the National Scale of Salaries (£695—by two increments of £20 and one of £25 to £760 per annum).
Candidates should be suitably qualified, and preference will be given to applicants having experience in the measuring up for and settlement of interim and final certificates on building contracts.

of interim and nnai certificates of buttacts.

The appointment will be subject to the Local Government Superannuation Acts and to the passing satisfactorily of a medical examination.

Applications, stating age, qualifications and experience, together with names of two persons to whom reference can be made, must be sent to reach the undersigned not later than 30th October, 1954.

Housing accommodation available if required.

J. F. ROOK.

Town Clerk.

Municipal Offices, Pontefract. 9th October, 1954.

Municipal Offices, Pontefract.

9th October, 1954.

LONDON ELECTRICITY BOARD.
SENIOR DRAUGHTSMAN.
Applications are invited for the above position in the Design and Planning Branch of the North-Eastern Sub-Ares at Stratford, E.15.
Applicants should have had training and experience in building construction and the design of steelwork and reinforced concrete structures, and be capable of preparing drawings and making salculations for the alteration of existing premises and the conversion into sub-stations and transformer chambers. Experience in the layout of electrical equipment up to 11 kV., whilst not essential, would be an advantage.

The post is graded under Schedule "D" of the National Joint Board agreement as Senior Draughtsman, Grade 5-£95 7s. to 2704 11s. per annum, inclusive of London allowance.
Application forms obtainable from Personnel Officer, 66, New Broad Street, E.C.2, to be returned completed within 10 days of the publication of this advertisement. Please enclose addressed envelope and quote ref. V/1805/A.

ARCHITECTURAL DRAUGHTSMEN FOR NEW ZEALAND.
Applications are invited from suitably qualified persons for appointment to permanent positions as DRAUGHTSMEN (vacancy No. 11) in the Ministry of Works, New Zealand. Applicants should have the General Certificate of Education or equivalent. Salary on appointment from £665 NZ to £1,042 NZ per annum. There are also vacancies in the New Zealand Forest Service.

Further information, conditions of appointment and application forms obtainable on request

High Commissioner for New Zealand,
415, Strand, London, W.C.2,
quoting reference No. 3/74/106 together with the
vacancy number stated above and mentioning this

paper.

Completed applications in duplicate accompanied by copies only, also in duplicate, of two recent testimonials to be lodged not later than 13st December, 1954.

Appointing Officers will arrive from New Zealand in January, 1955, to interview suitable applicants.

applicants.

4388
BOROUGH OF WEYMOUTH AND MELCOMBE REGIS.

SENIOR ARCHITECTURAL ASSISTANT. Applications for this appointment are invited from Architects who have passed the examination of the R.I.B.A. or similar qualifications, and are Registered Architects.

Salary: Grade VI (£695-£760 per annum). Candidates must have had considerable general architectural experience, and particularly in relation to flats.

The appointment is pensionable and subject to one month's notice.

Applications must be received by me not later than 30th October, 1954.

PERCY SMALLMAN,

Town Clerk.

October 1984.

Municipal Offices, Weymouth. October, 1954.

LANCASHIRE COUNTY COUNCIL—
PLANNING DEPARTMENT.
PLANNING ASSISTANTS, A.P.T., Grades V (£620-£670), and VI (£695-£760), required at MAN-CHESTER and LIVERPOOL. Applicants should hold a qualification in architecture or planning. Salary according to qualifications and experience. Applications, giving age, qualifications, experience, present appointment and salary, and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 3rd November, 1954.

4346

County Offices, Preston, by 3rd November, 1954.

MINISTRY OF WORKS.

ARCHITECTURAL ASSISTANTS required for drawing office at Royal Ordnance Factory, Ranskill, near Retford, Notts.

Candidates must be British and have had at least three years architectural training, experience in an Architect's office, and be of Intermediate R.I.B.A. standard.

Salary £400 (at age 21) to £640 per annum. Starting pay according to age and experience. Prospects of promotion and permanency.

Write: WG10/CA9 (G), Ministry of Works, Abell House, John Islip Street, London, S.W.I. 4404

BOROUGH OF BARNES.

TEMPORARY ARCHITECTURAL ASSISTANT, A.P.T., GRADE III.

Applications are invited for the above appointment at a salary of £550×£15-£595, plus London Weighting Allowance.

Candidates should be good draughtsmen, and be capable of preparing plans and detaits for general architectural work.

Applications, giving the names of three persons to whom reference can be made, must be sent to the undersigned not later than Friday, 5th November, 1954.

W. R. SHEPHERD, A.M.I.C.E., F.R.I.C.S., Borough Engineer and Surveyor.

Municipal Offices, Sheen Lane, S.W.14.

4410

CITY OF CARDIFF.

City Hall, Cardiff. October, 1954.

October, 1954.

URBAN DISTRICT OF FELTHAM.

TEMPORARY ARCHITECTURAL ASSISTANT required. Salary within Grade A.P.T. VI (4695-2760 per annum), plus London "weighting." Applicants must be Registered Architects. Forms of application, obtainable from the undersigned, must be returned, accompanied by copies of two testimonials, not later than 8th November, 1954. Canvassing directly or indirectly will disqualify and applicants must disclose, in writing, whether to their knowledge they are related to any member of or the holder of any senior office under the Council.

M. W. COUPE,

Council Offices.

Council Offices. Feltham, Middlesex.

Architectural Appointments Vacant 1 lines or under 74. 6d.: each additional line 23. The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-69 inclusive unless he or she or the employment is excepted from the provisions of the Notification of Vacancies Order. 1952.

REQUIRED for Architects' office. Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 2323.

JUNIOR and SENIOR ARCHITECTURAL ASSISTANTS and DRAUGHTEMEN for large and varied practice in Home Counties. Salary required and details of experience to Box 3512.

3512.

EXPERIENCED SENIOR and JUNIOR ARCHITECTURAL ASSISTANTS required, preferably with experience in industrial work. Write or telephone to Hasker & Hall, Architects, 13, Welbeck Street, Lendon, W.I. Welbeck 0061.

A BCHITECTURAL ASSISTANTS required, one Senior, qualified and experienced, and one Intermediate stage, for busy West End office engaged on commercial work. Five-day week. Reply, stating qualifications, experience, age, and salary required, to Box 4158.

A RCHITECTURAL ASSISTANT required.

R.I.B.A. Intermediate standard. Full particulars to W. S. Hattrell & Partners, 1, Queens Road, Coventry. 4297

BUILDING SURVEYING ASSISTANT (about R.I.C.S. Final Standard) with at least two years' practical experience required by City firm of Chartered Surveyors & Architects. 3925

A RCHITECTURAL ASSISTANT required for work in connection with a system of prefabricated construction for Schools Development and actual building. Should have passed R.I.B.A. Intermediate. Considerable scope for right man. Saiary according to experience (£400—£500). Write Box 320, W.B.G., 39, Cheapside, London, E.C.2. 4229

SENIOR and Intermediate ARCHITECTURAL ASSISTANTS required for busy Midlands practice. Apply in writing with full particulars and salary required. Wood, Goldstraw and Yorath, 36, Cheapside, Hanley, Stoke-on-Trent.

CO-OPERATIVE WHOLESALE SOCIETY, LTD., ARCHITECT'S DEPARTMENT, MANCHESTER.

APPLICATIONS are invited for the appointment of ASSISTANT ARCHITECTS for work on large and interesting commercial and industrial projects.

Candidates must have had several years' experience and be able to prepare working drawings and details from preliminary sketches.

The appointments are permanent and pensionable.

able.

Applications, stating age, experience, qualifications and salary required, to be addressed to G. S.
Hay, A.R.I.B.A.. Chief Architect, Co-operative
Wholesale Society, Ltd., 1, Bailoon Street, Manheater.

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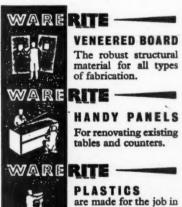
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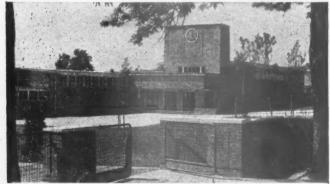
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