

T H E ARCHITECTS' JOURNAL

FINE ARTS



standard contents

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

NEWS and COMMENT

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Information Sheets

Information Centre

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CURRENT BUILDING

Major Buildings described:

Details of Planning, Construction,

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Architectural Appointments

Wanted and Vacant

No. 3397]

[Vol. 131

THE ARCHITECTURAL PRESS

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

AA	Architectural Association, 34/6, Bedford Square, W.C.1.	Museum 0974
AAI	Association of Art Institutions. Secy.: J.H.Holden, College of Art, Cavendish Street, Manchester 15	
ABS	Architects' Benevolent Society. 66, Portland Place, W.1.	Langham 5533
ABT	Association of Building Technicians. 156, Waterloo Road, S.E.1.	Waterloo 5427
ACGB	Arts Council of Great Britain. 4, St. James's Square, S.W.1.	Whitehall 9737
ADA	Aluminium Development Association. 33, Grosvenor Street, W.1.	Mayfair 7501/8
ARCUK	Architects' Registration Council. 68, Portland Place, W.1.	Langham 5861
BAE	Board of Architectural Education. 66, Portland Place, W.1.	Langham 5721
BC	Building Centre, 26, Store Street, Tottenham Court Road, W.C.1.	Museum 5400
BCC	British Colour Council. 13, Portland Square, W.1.	Welbeck 4185
BCCF	British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5.	Ealing 9621
BCIRA	British Cast Iron Research Association. Alvechurch, Birmingham	Redditch 716
BDA	British Door Association. 10, The Boltons, S.W.10.	Fremantle 8494
BE	Building Exhibition. 11, Manchester Square, W.1.	Hunter 1951
BEDA	British Electrical Development Association, 2 Savoy Hill, W.C.2.	Temple Bar 9434
BIA	British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2.	Glasgow Central 2891
BID	Building Industries Distributors. 52, High Holborn, W.C.1.	Chancery 7772
BINC	Building Industries National Council. 11, Weymouth Street, W.1.	Langham 2785
BOT	Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1.	Trafalgar 8855
BRS	Building Research Station. Bucknalls Lane, Watford.	Garston 4040
BSA	Building Societies Association. 14, Park Street, W.1.	Mayfair 0515
BSI	British Standards Institution. British Standards House, 2, Park St., W.1.	Mayfair 9000
CABAS	City and Borough Architects Society. C/o S. A. G. Cook, A.R.I.B.A., Borough Architect and Director of Housing, Town Hall, High Holborn, W.C.1.	Holborn 3411
CAS	County Architects' Society. C/o S. Vincent Goodman, F.R.I.B.A., Shire Hall, Bedford.	Bedford 67444
CCA	Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1.	Belgravia 6661
CDA	Copper Development Association. 55, South Audley Street, W.1.	Grosvenor 8811
COD	Council of Industrial Design. 28, Haymarket, S.W.1.	Trafalgar 8000
CPRE	Council for the Preservation of Rural England. 4, Hobart Place, S.W.1.	Sloane 4280
CUC	Coal Utilization Council. 3, Upper Belgrave Street, S.W.1.	Sloane 9116
CVE	Council for Visual Education. 13, Suffolk Street, Haymarket, S.W.1.	Reading 72255
DIA	Design and Industries Association. 13, Suffolk Street, S.W.1.	Whitehall 0540
EJMA	English Joinery Manufacturers' Association (Incorporated). Sackville House, 40, Piccadilly, W.1.	Regent 4448
EPNS	English Place-Name Society. 7, Selwyn Gardens, Cambridge.	
FAS	Faculty of Architects and Surveyors. 68, Gloucester Place, W.1.	Welbeck 9966
FASS	Federation of Associations of Specialists and Sub-Contractors, 14, Bryanston Street, W.1.	Welbeck 1781
FBBDO	Fibre Building Board Development Organization Ltd. (Fidor), Stafford House, Norfolk Street, W.C.2.	Covent Garden 3008
FBI	Federation of British Industries. 21, Tothill Street, S.W.1.	Whitehall 6711
FC	Forestry Commission. 25, Savile Row, W.1.	Regent 0221
FCMI	Federation of Coated Macadam Industries. 37, Chester Square, S.W.1.	Sloane 1002
FDMA	The Flush Door Manufacturers Association Ltd. Trowell, Nottingham, Ilkeston 623	
FLD	Friends of the Lake District. Pennington House, nr. Ulverston, Lancs. Ulverston 201	
FMB	Federation of Master Builders. 33, John Street, W.C.1. Tel.: Chancery 7583 (6 lines)	
FPC	The Federation of Painting Contractors, St. Stephen's House, S.W.1.	Whitehall 3902
FRHB	Federation of Registered House Builders. 82, New Cavendish Street, W.1.	Langham 4341
GPDA	Gypsum Plasterboard Development Association. 11, Ironmonger Lane, E.C.2.	Monarch 8888
GC	Gas Council. 1, Grosvenor Place, S.W.1.	Belgravia 4321
GG	Georgian Group. 2, Chester Street, S.W.1.	Belgravia 3081
HC	Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1.	Whitehall 2881
IAAS	Incorporated Association of Architects and Surveyors, 29, Belgrave Square, S.W.1.	Belgravia 3755
ICA	Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1.	Grosvenor 6186
ICE	Institution of Civil Engineers. 1, Great George Street, S.W.1.	Whitehall 4577
IEE	Institution of Electrical Engineers. Savoy Place, Victoria Embankment, W.C.2.	Covent Garden 1871
IES	Illuminating Engineering Society. 32, Victoria Street, S.W.1.	Abbey 5215
IGE	Institution of Gas Engineers. 17, Grosvenor Crescent, S.W.1.	Sloane 8266
IHVE	Institution of Heating and Ventilating Engineers. 49, Cadogan Square, S.W.1.	Sloane 1601/3158
IIBDID	Incorporated Institute of British Decorators and Interior Designers, 37, Soho Square, W.1.	Gerrard 5056

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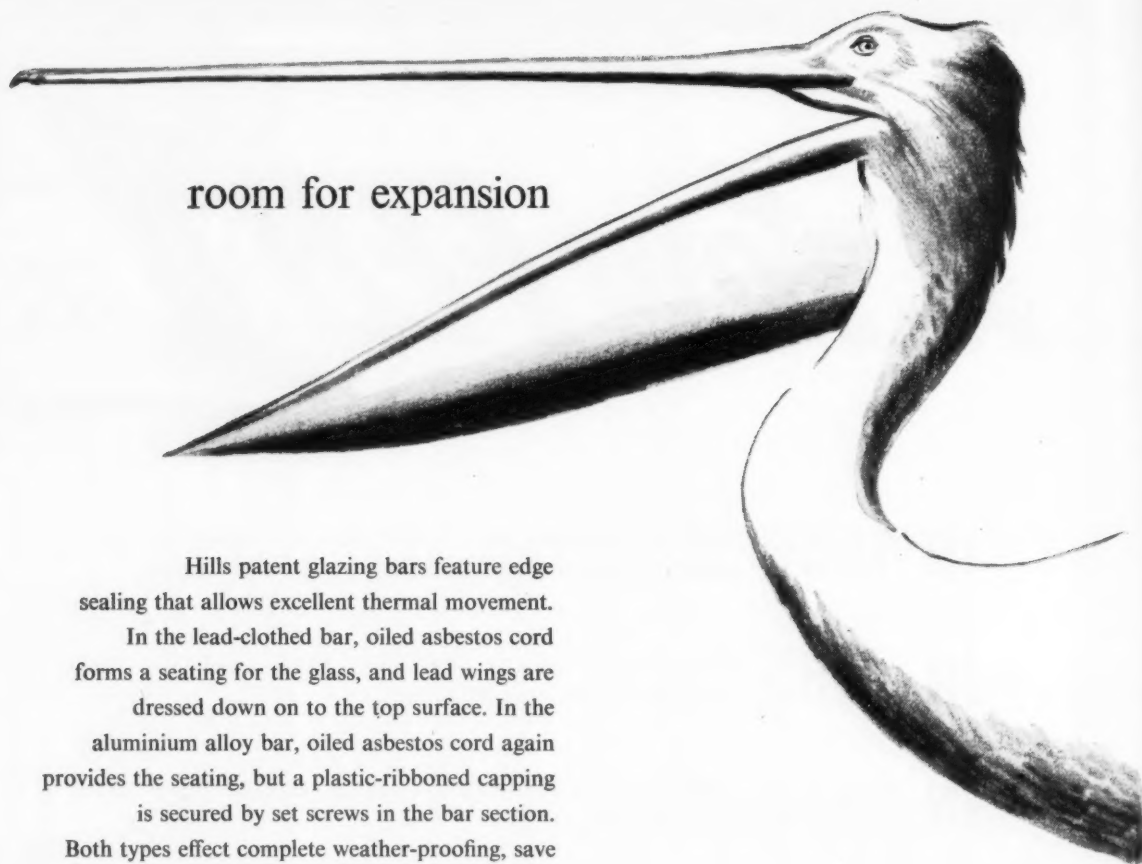
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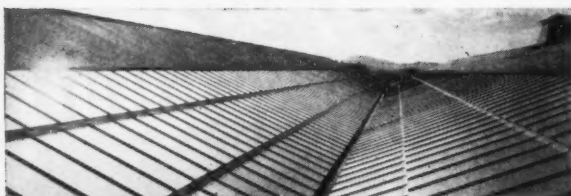
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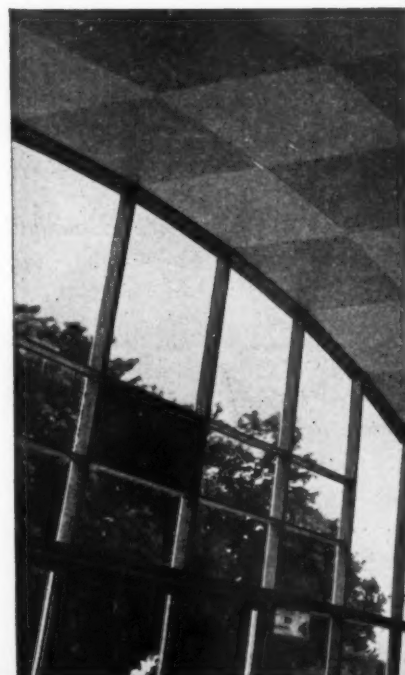


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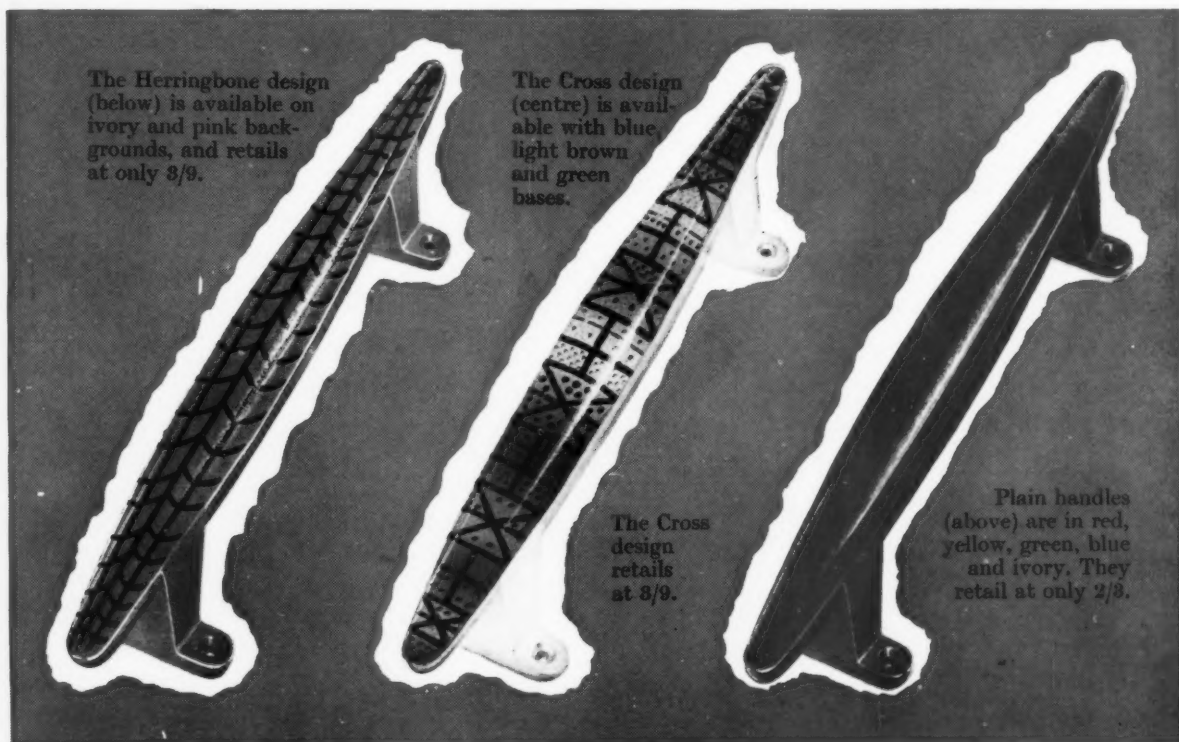
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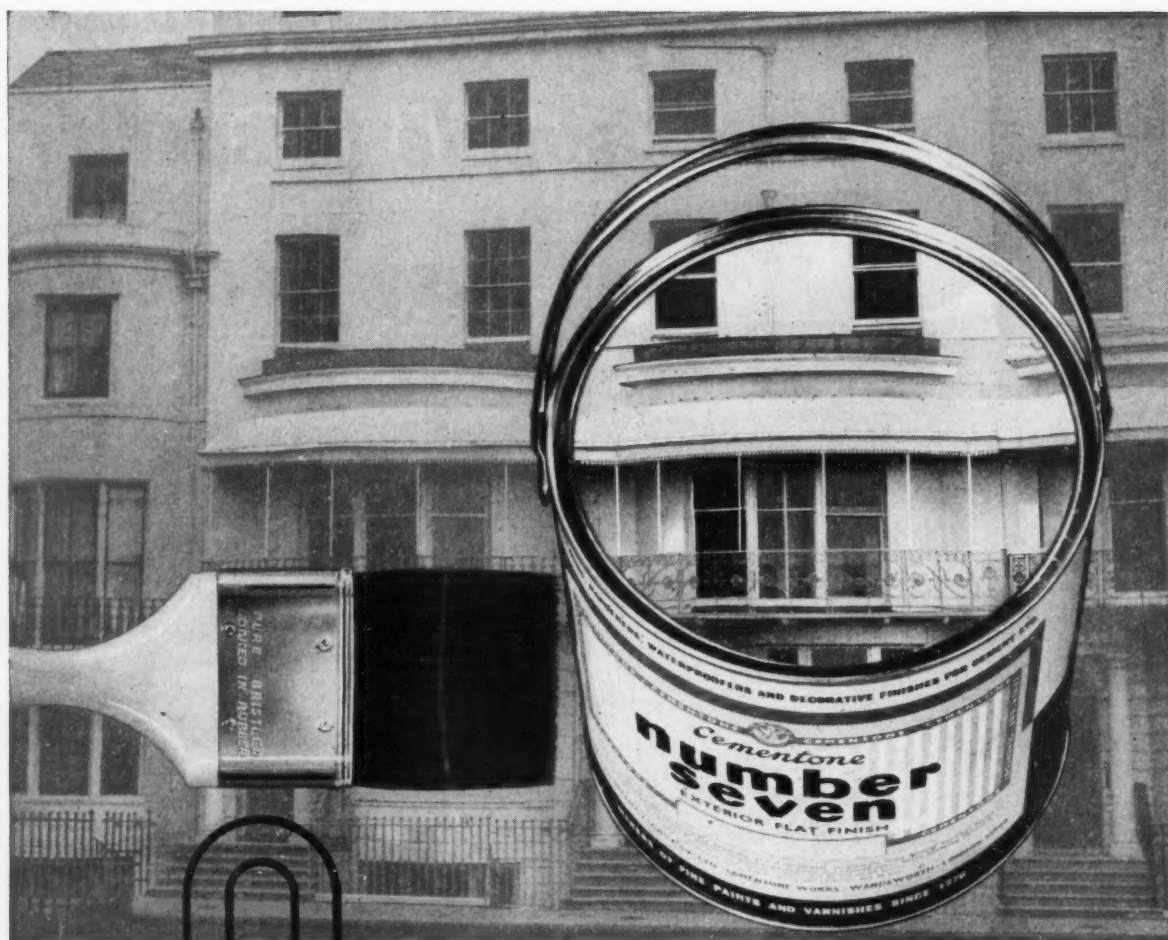
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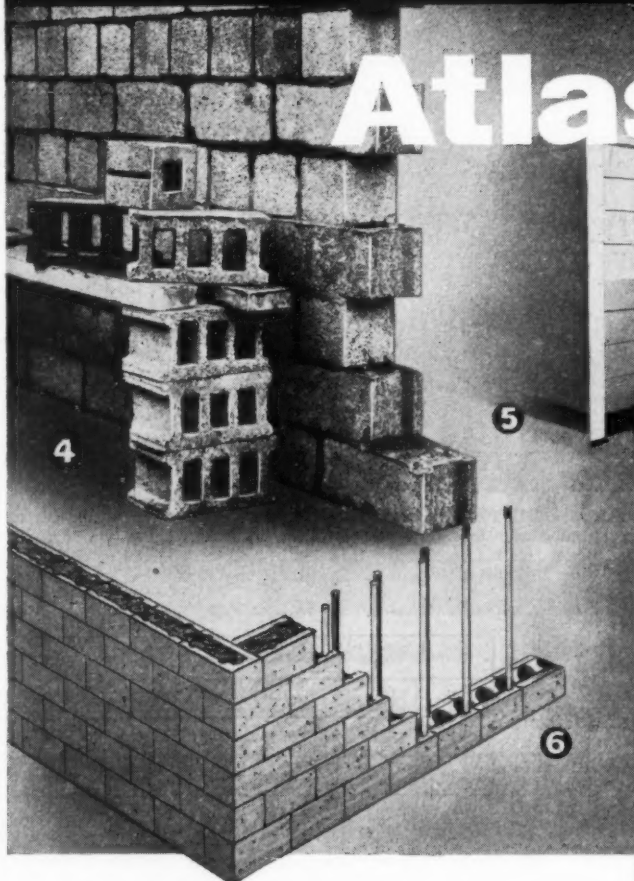
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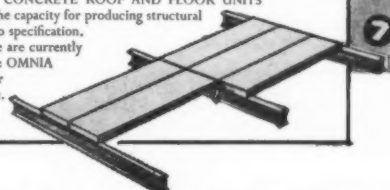
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Sound Absorption Coefficients at frequencies (c.p.s.)					
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0.10	0.20	0.50	0.85	0.85	0.85

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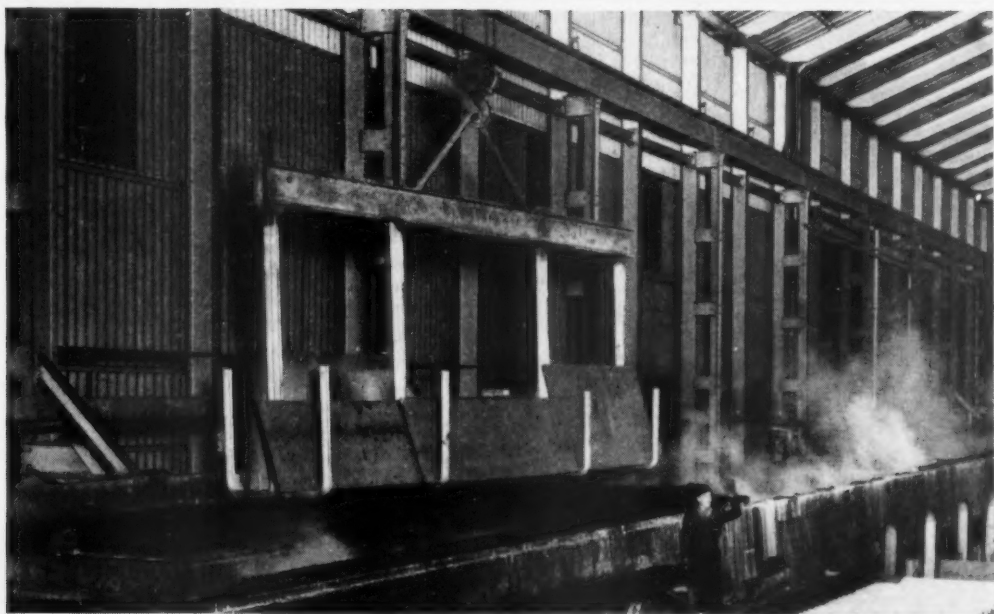
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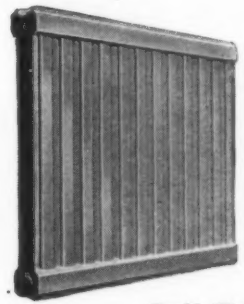
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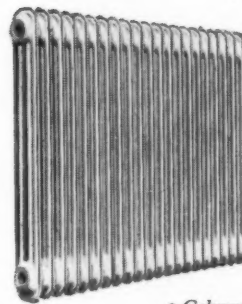
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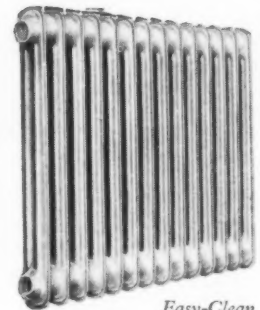
Wall



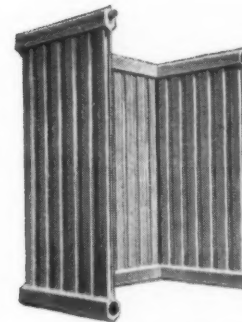
Double Wall



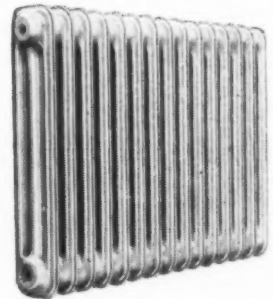
2-Column



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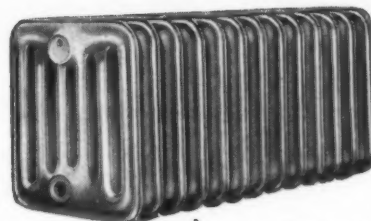
Angle-Wall



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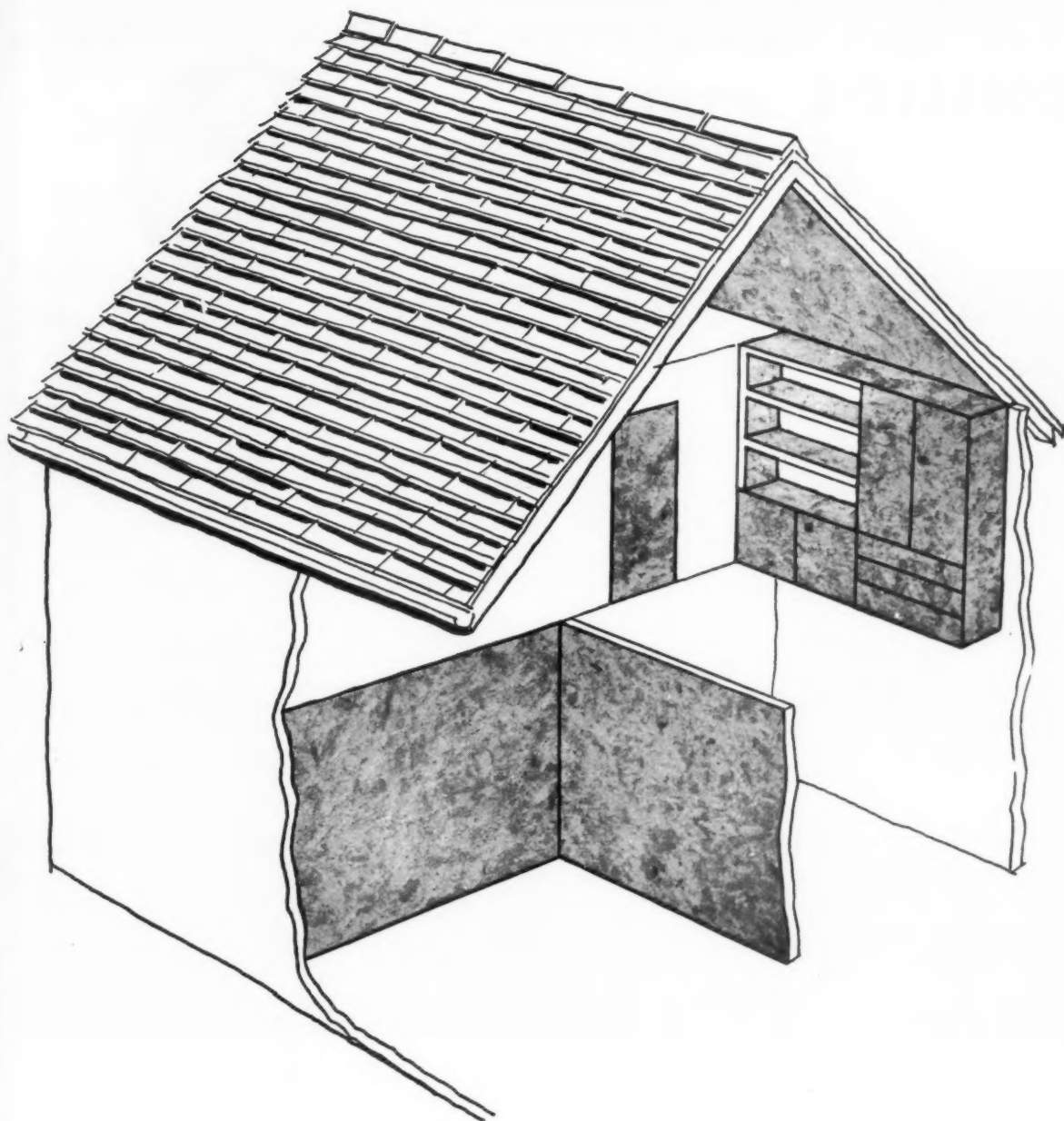
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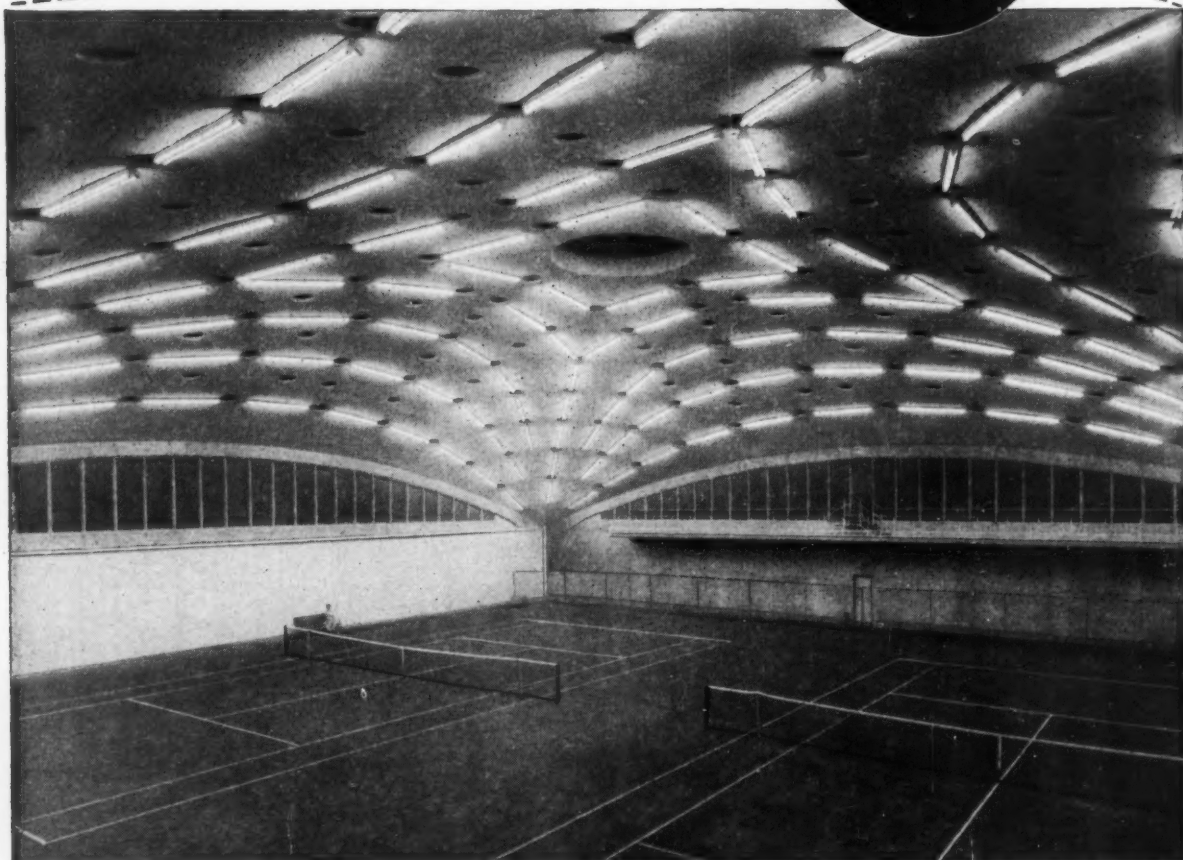
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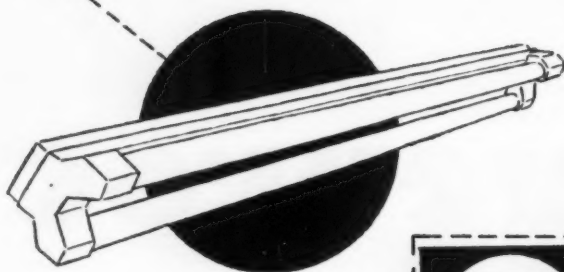
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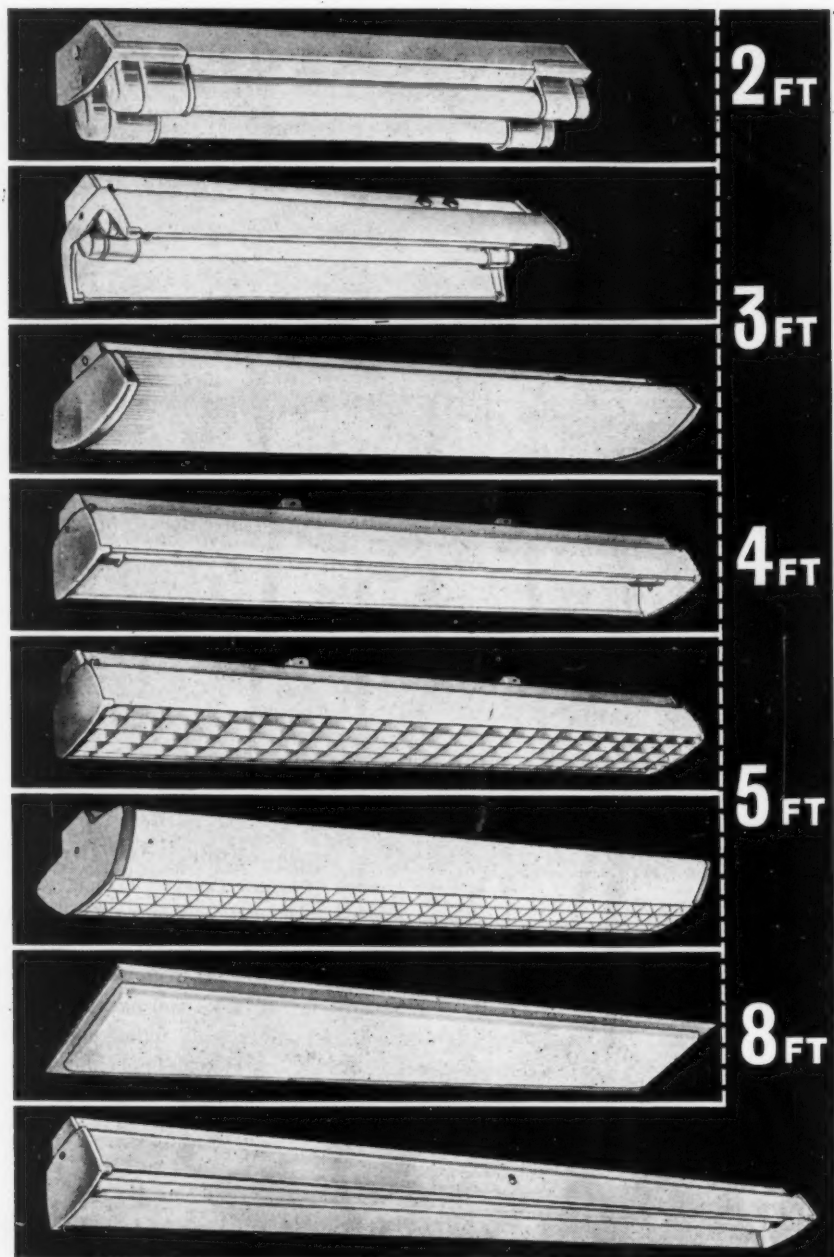
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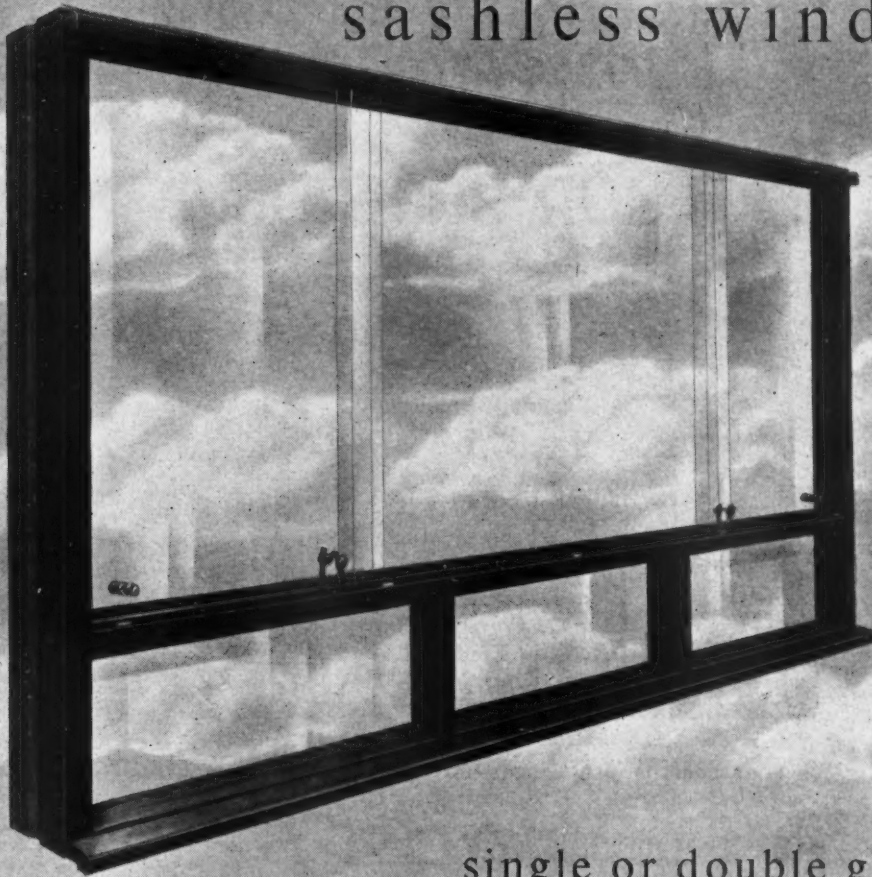
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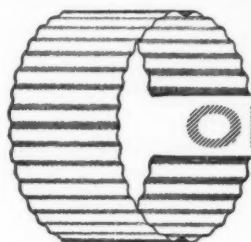
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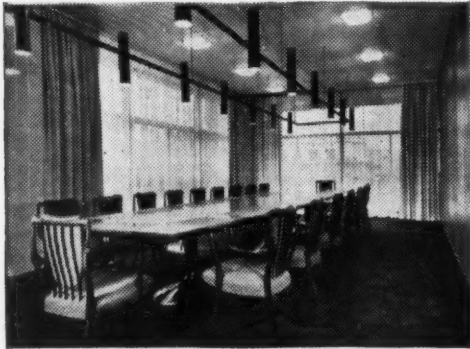
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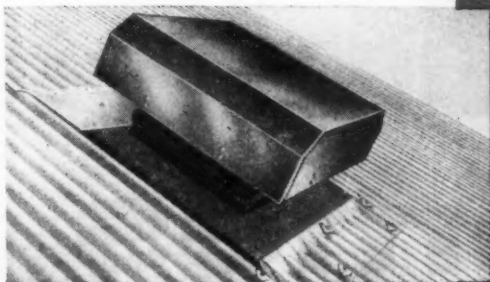


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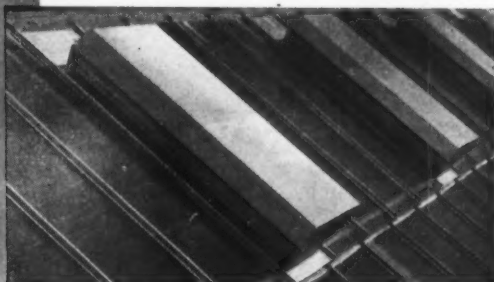
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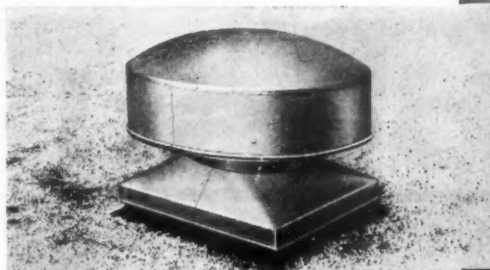
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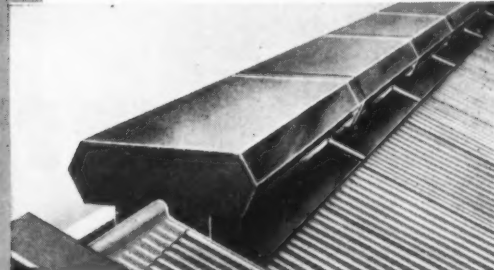
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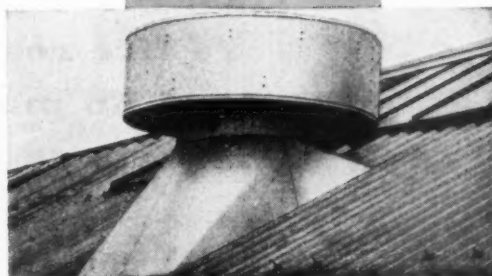
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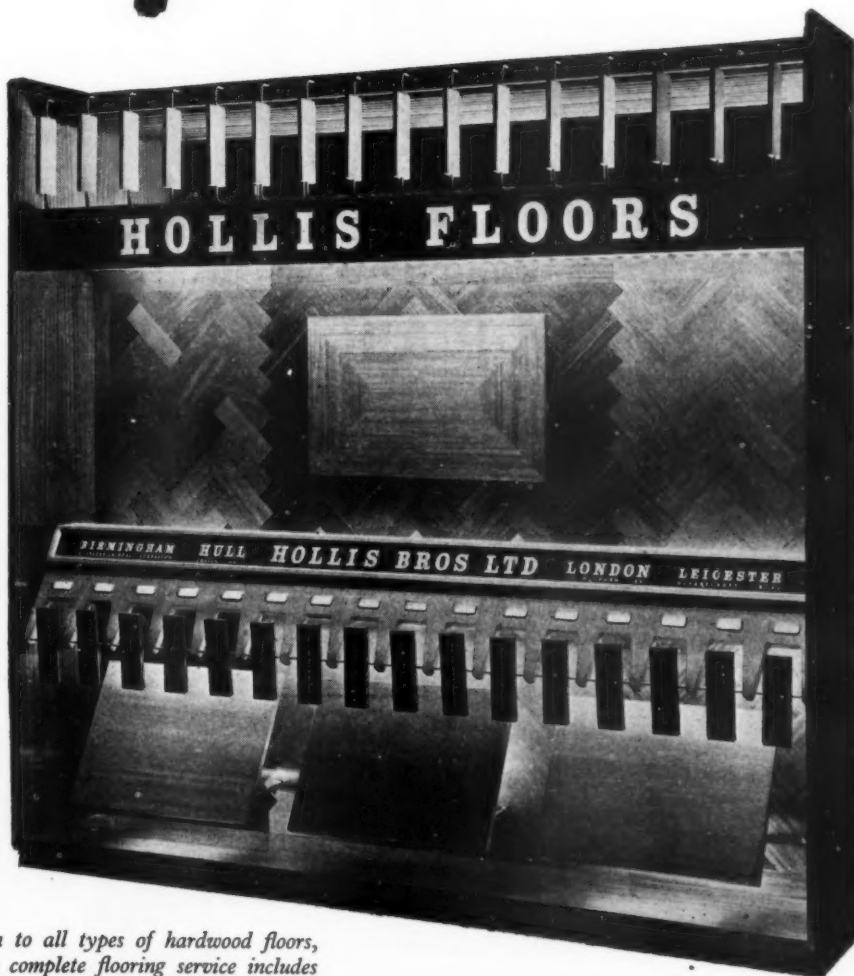
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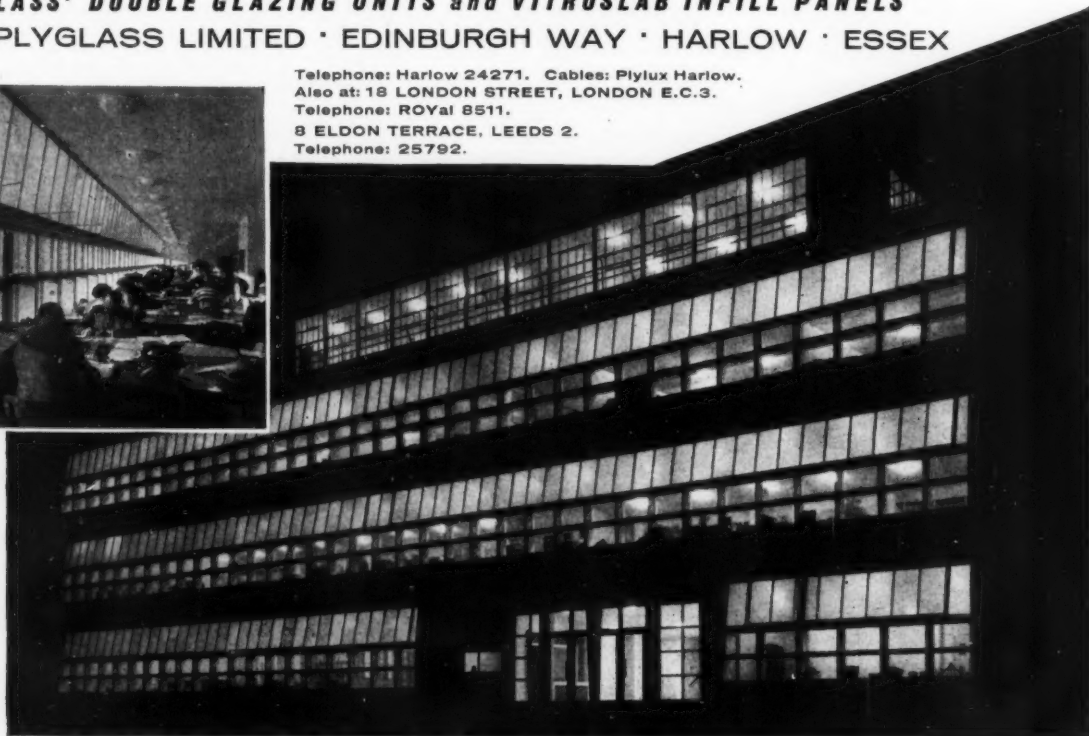
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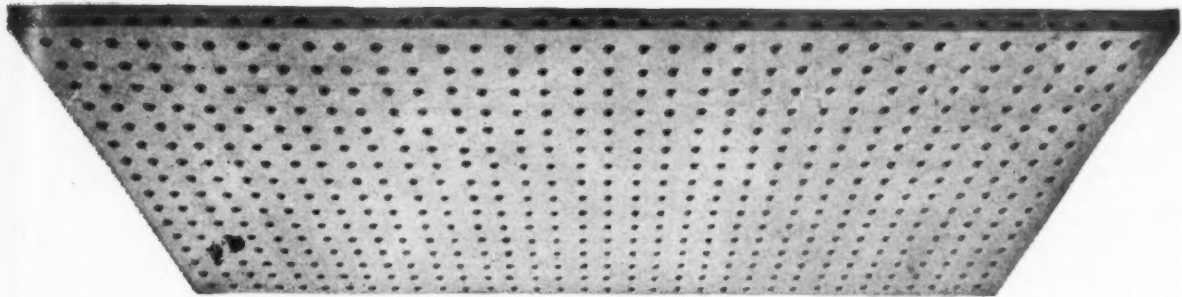
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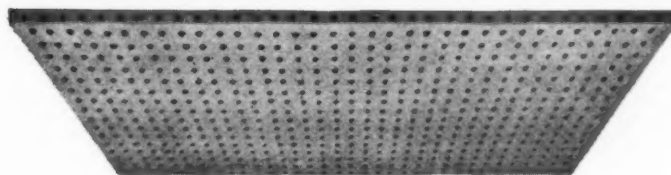
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Architect: Maurice H. J. Bebb L.R.I.B.A.

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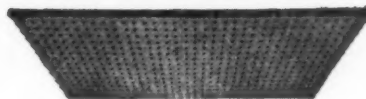
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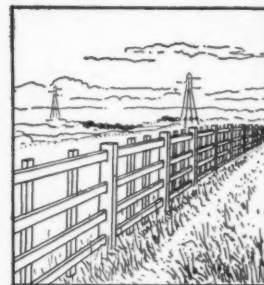
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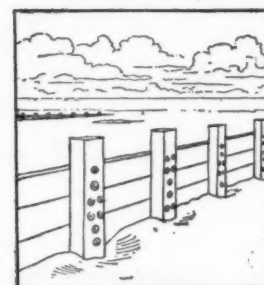
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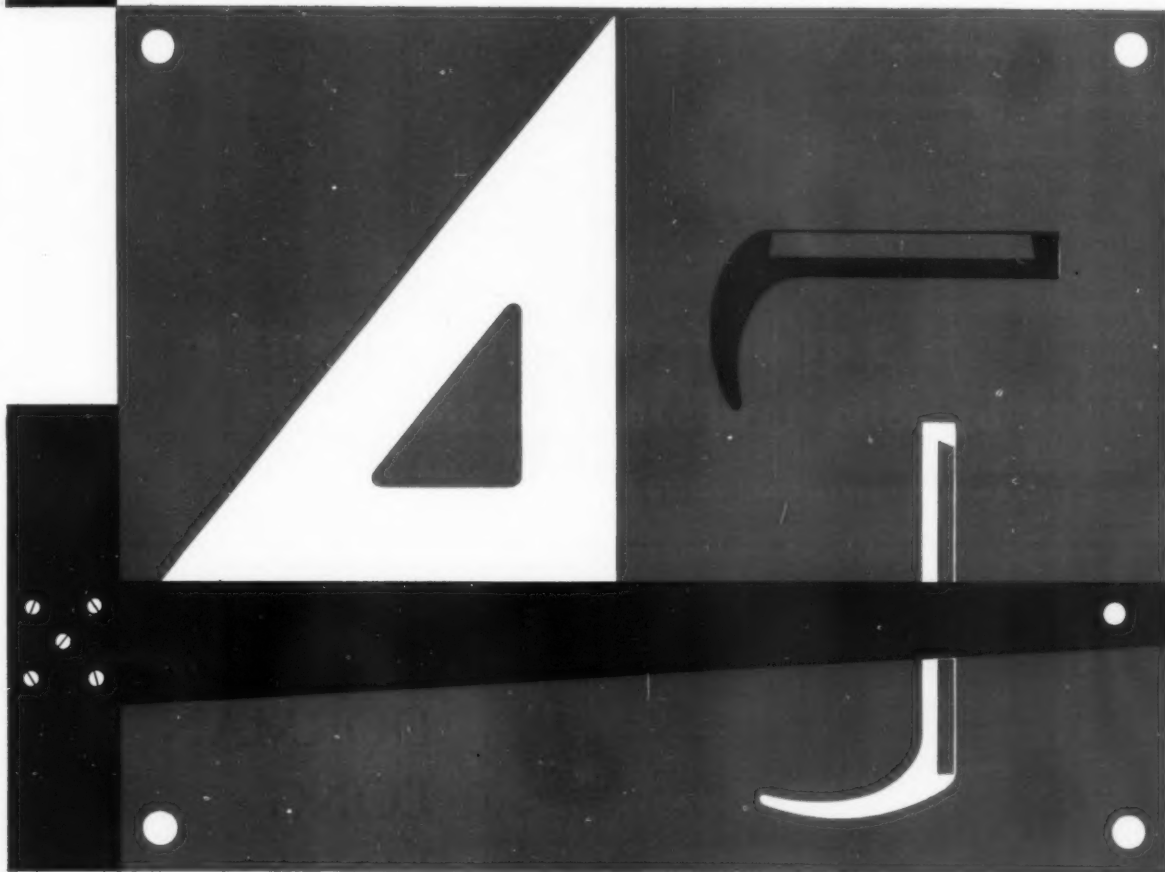
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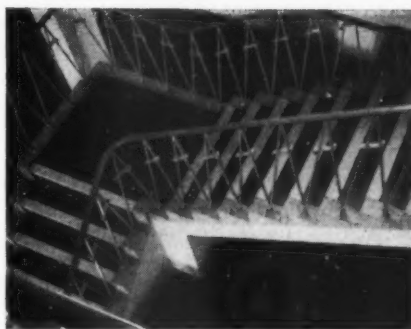
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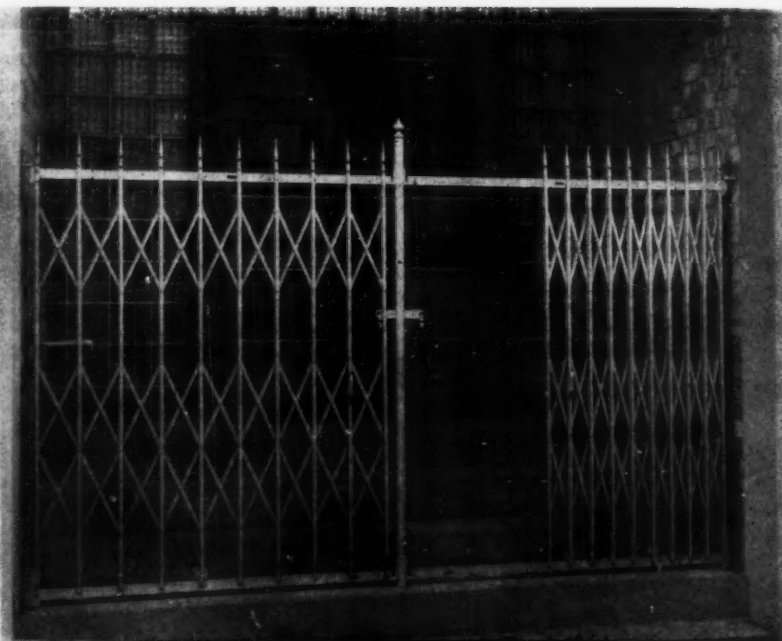
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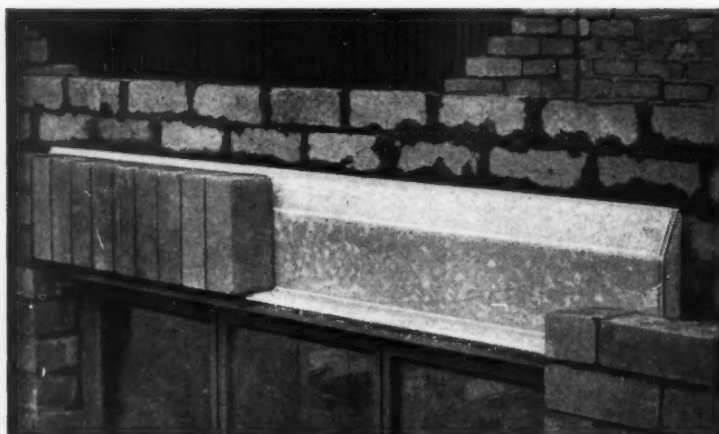
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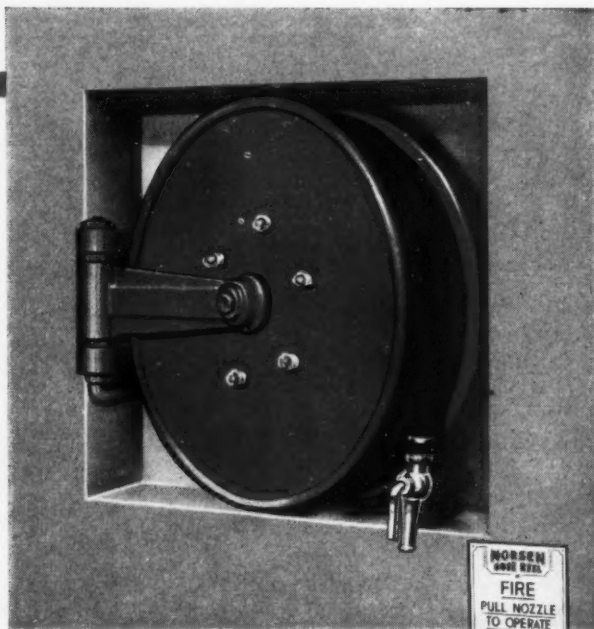
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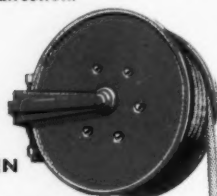
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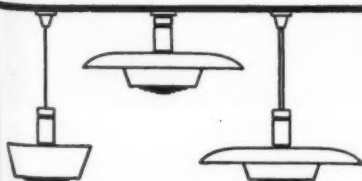
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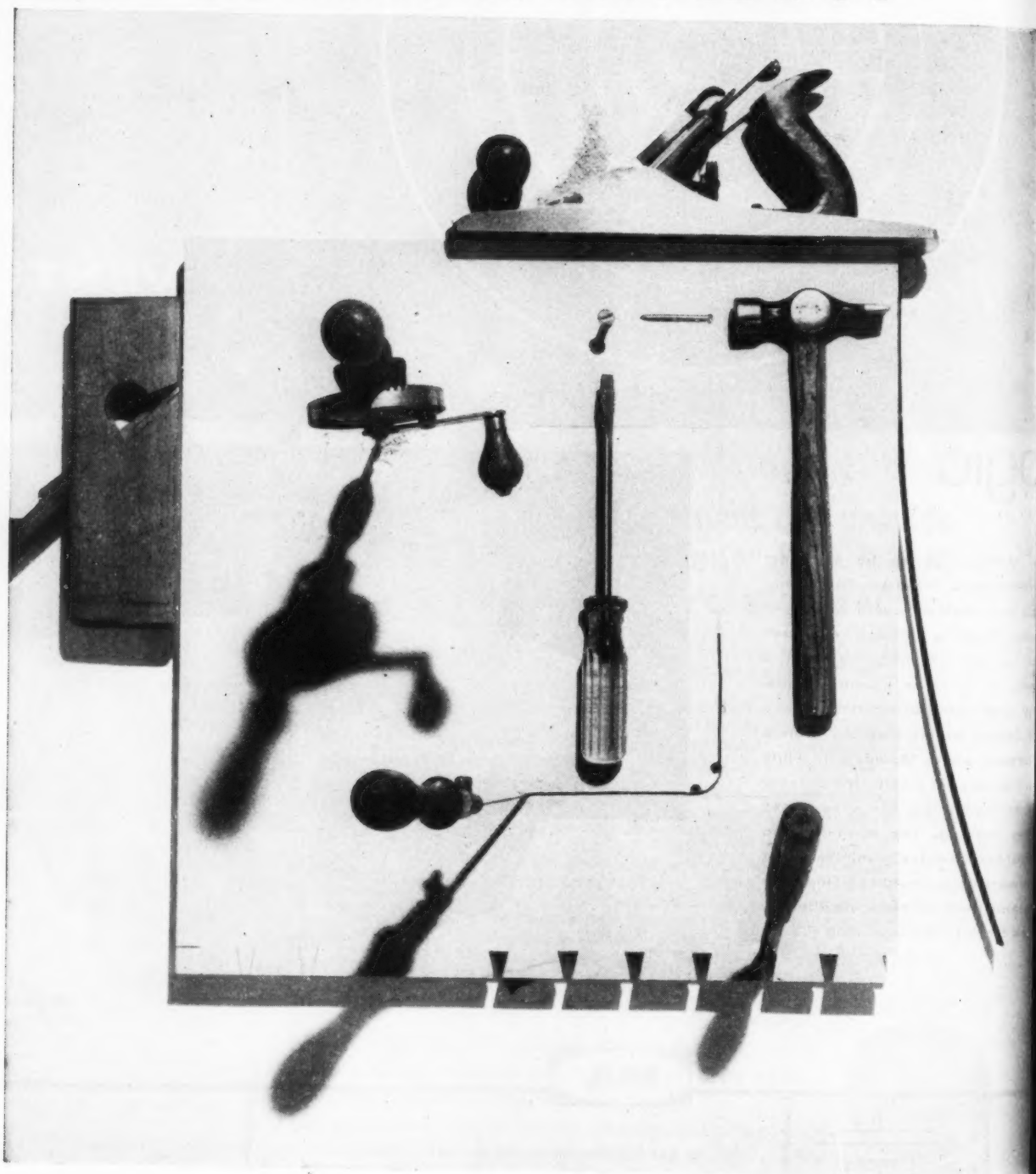
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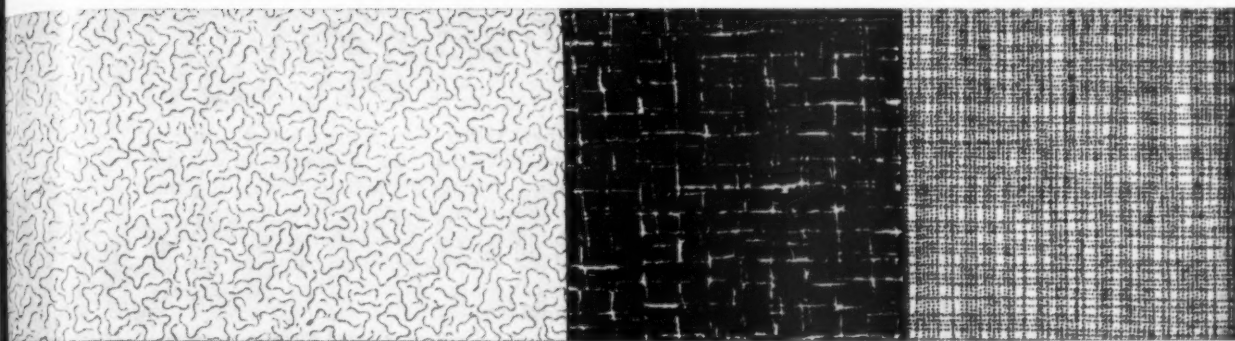
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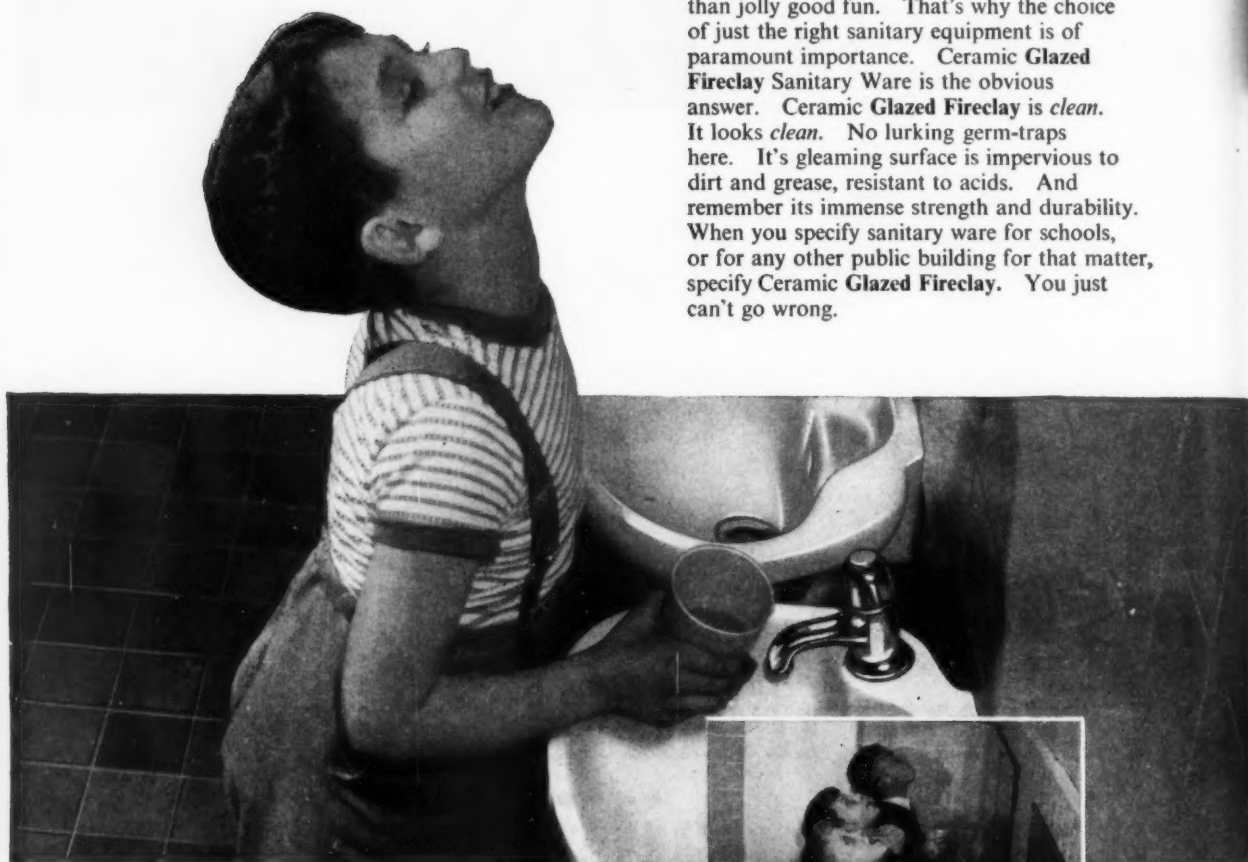
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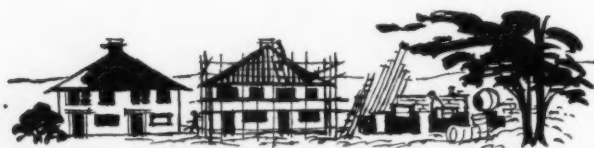
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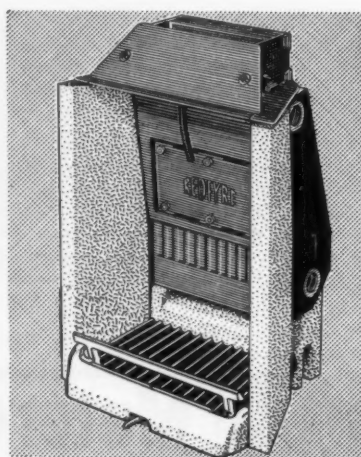
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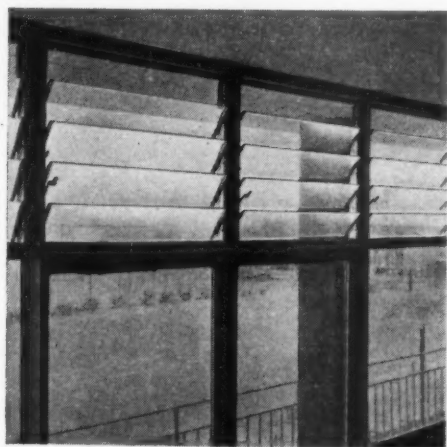
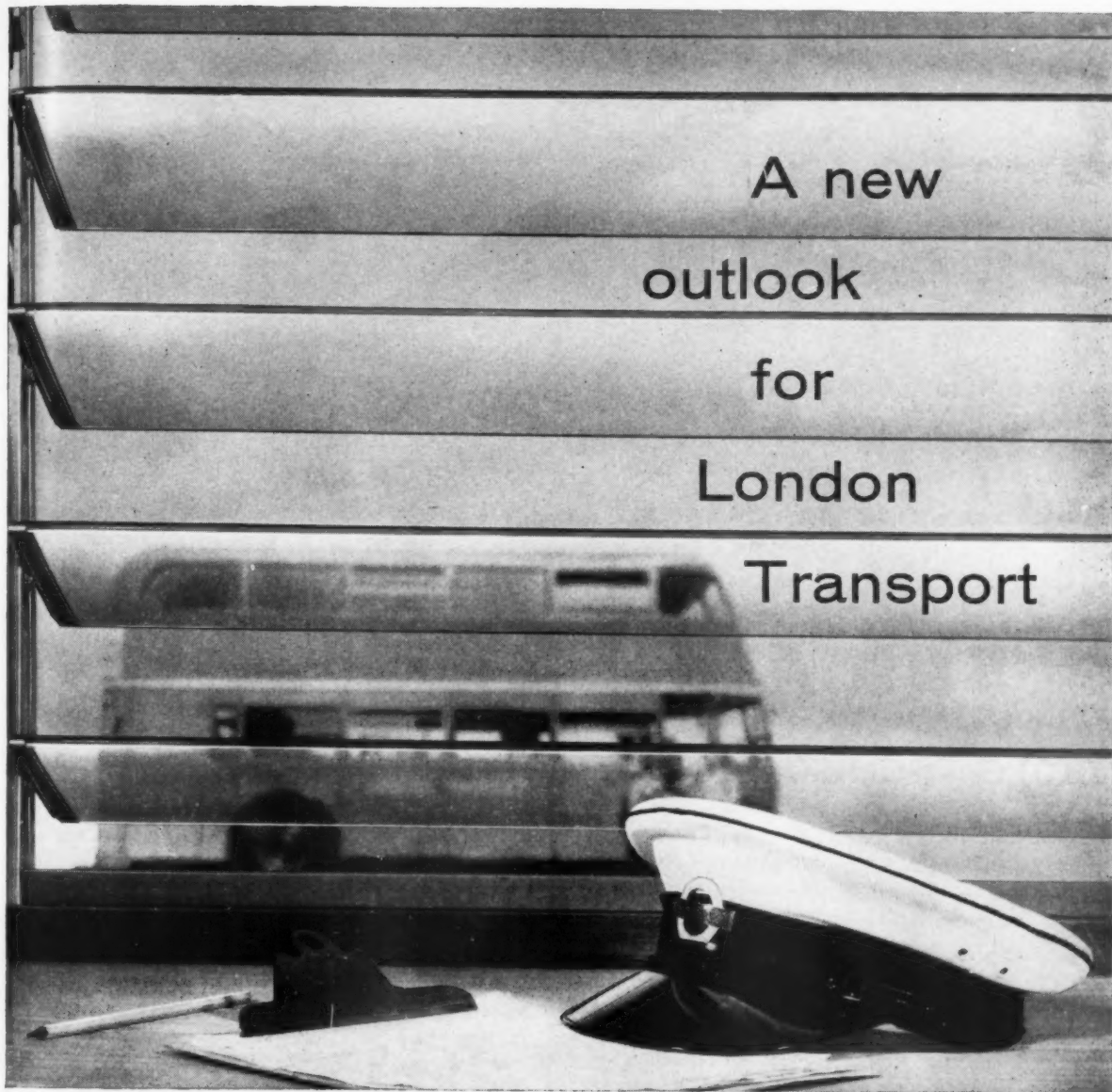


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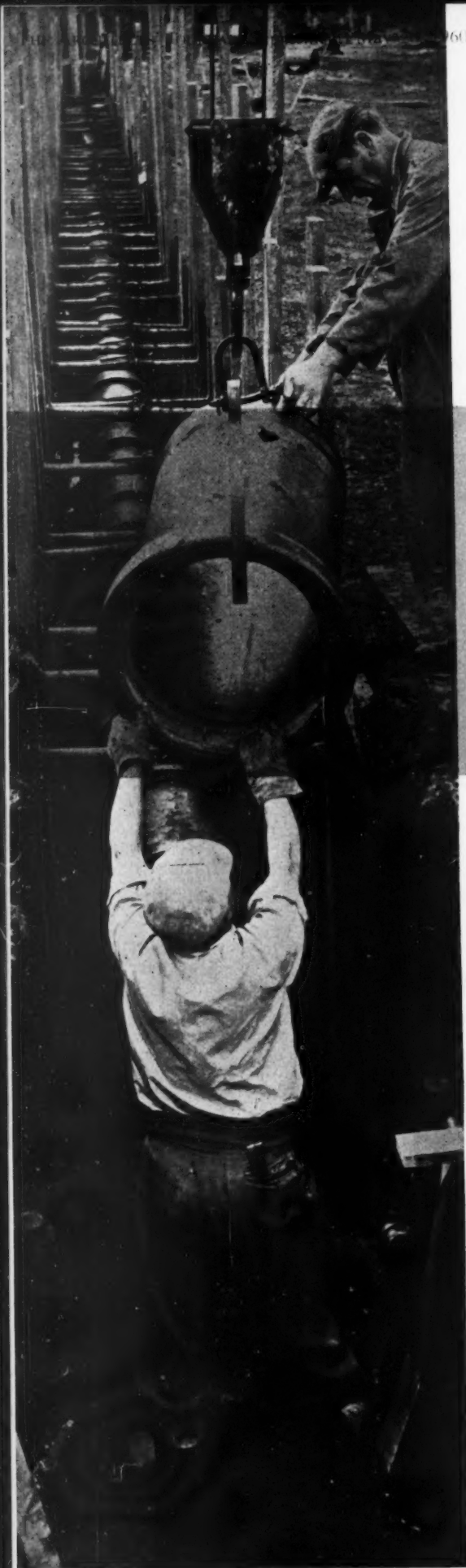


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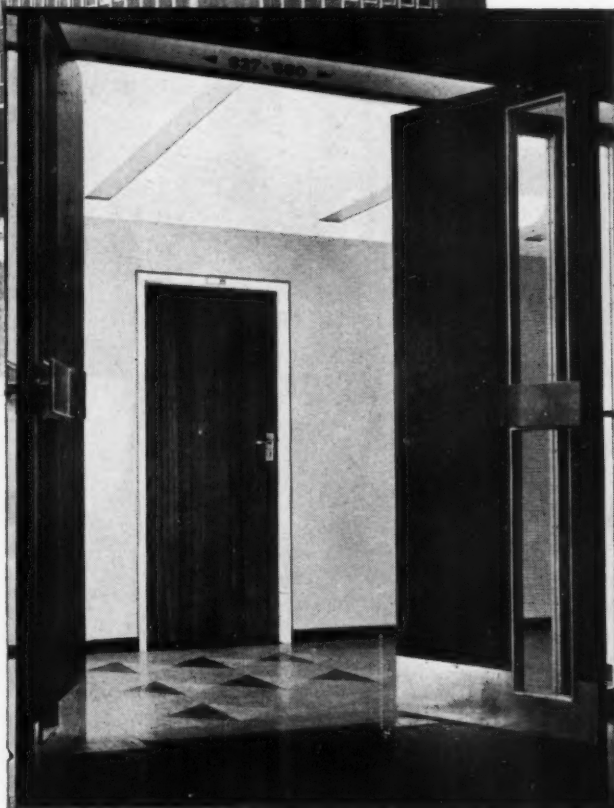
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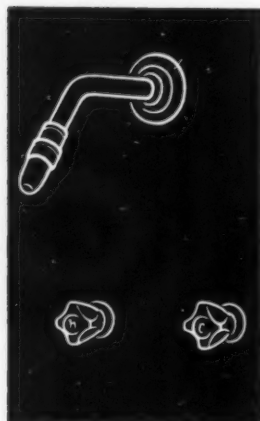
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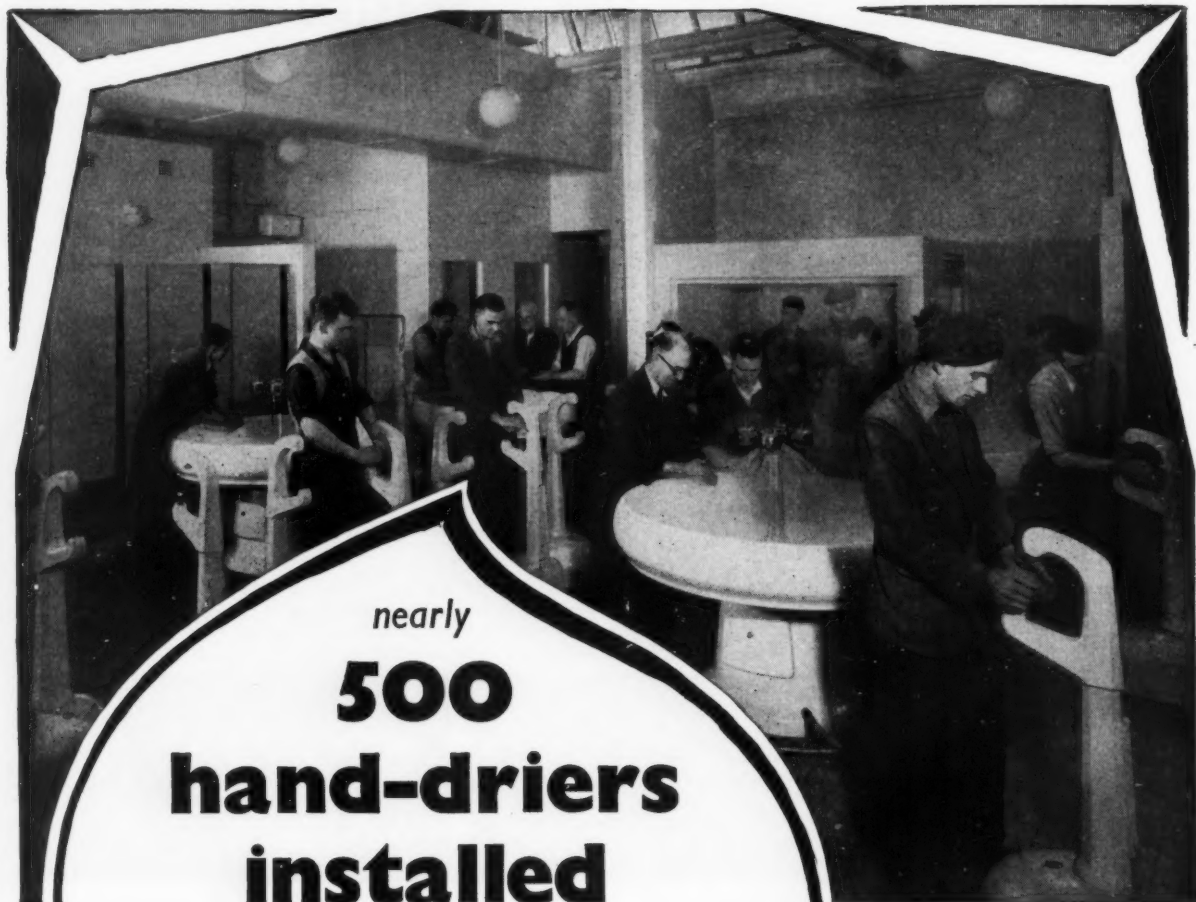
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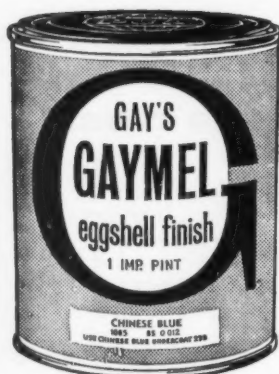


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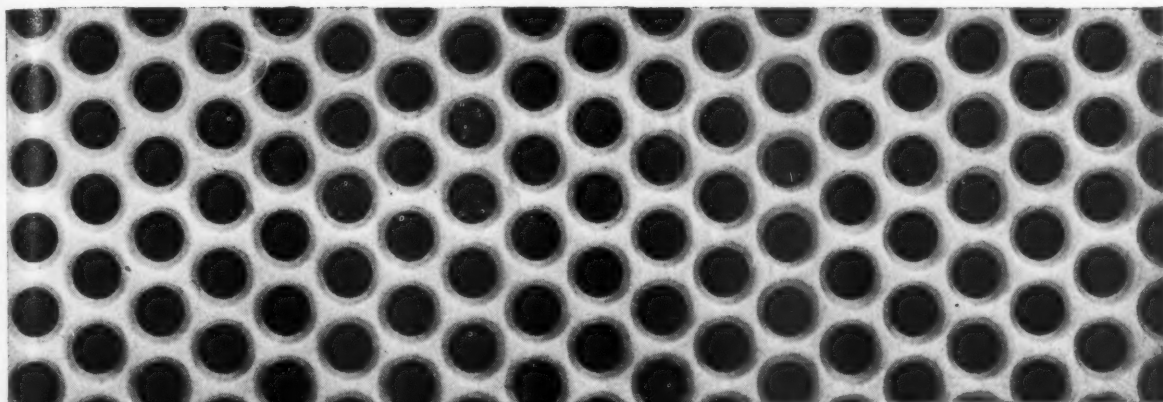
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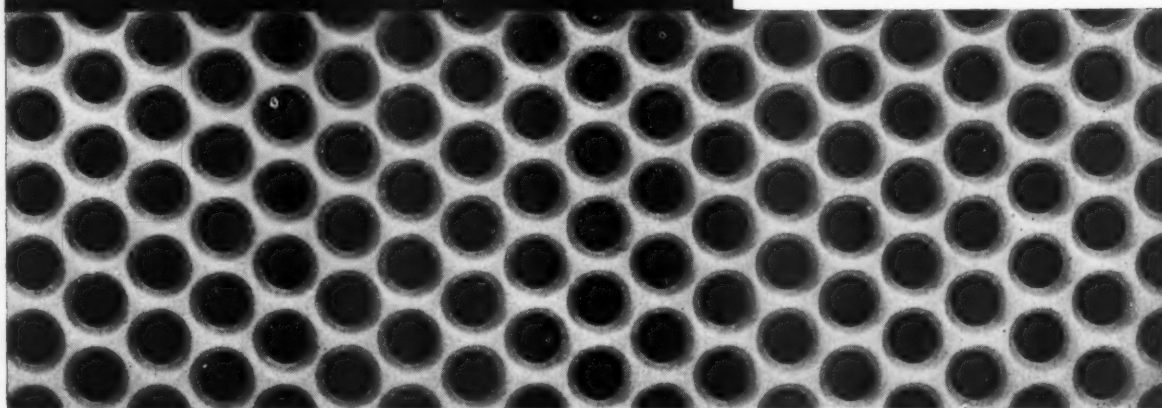
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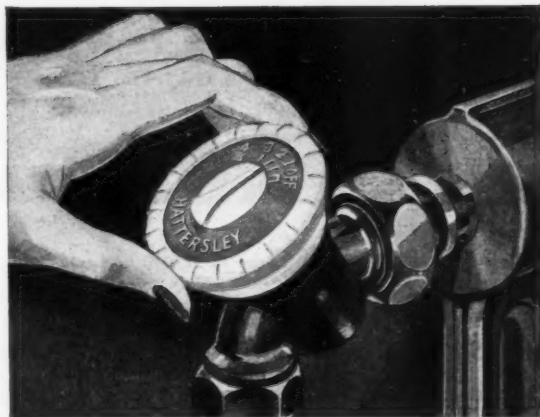
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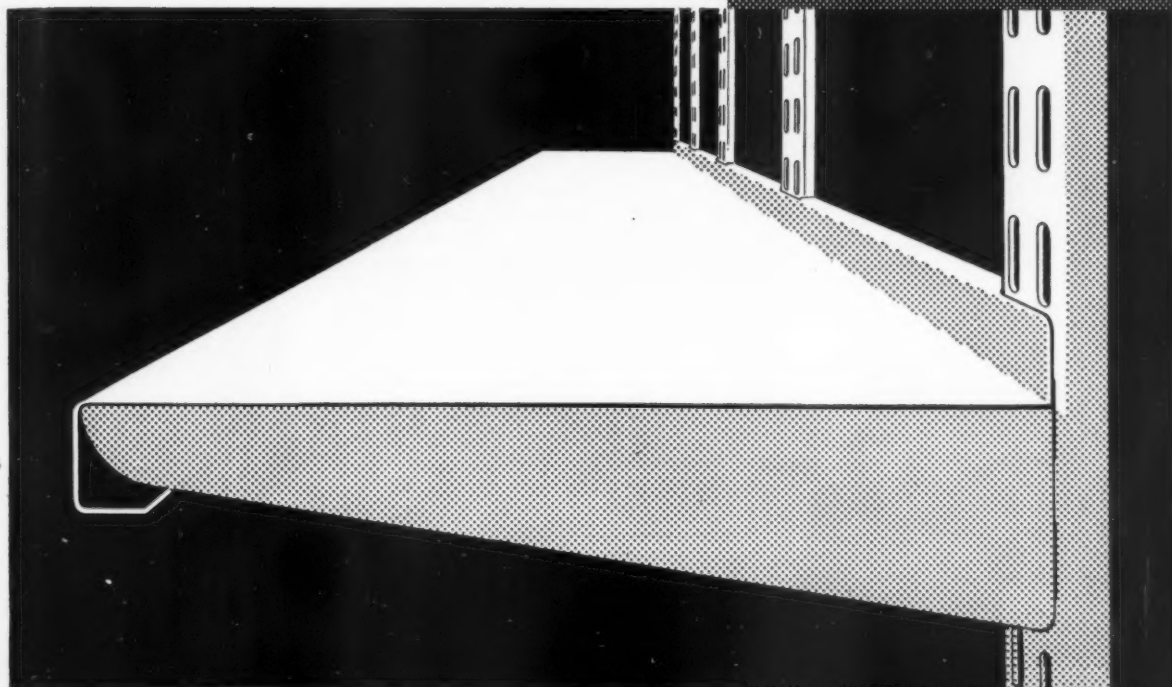
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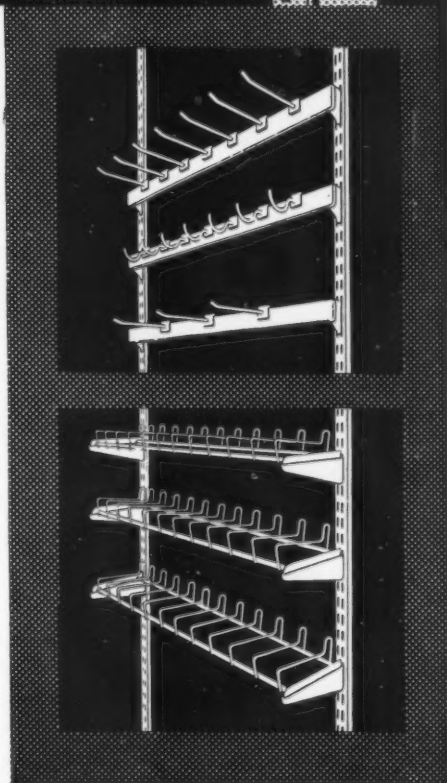
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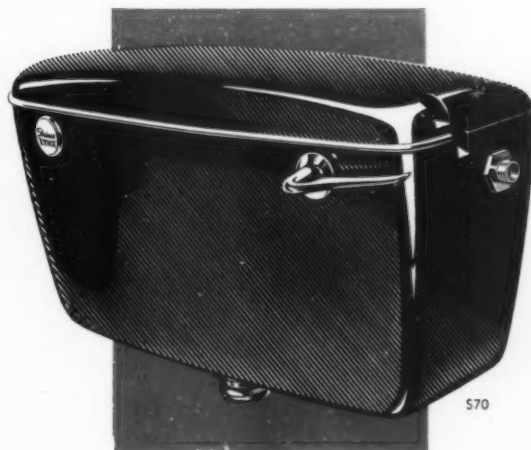
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ENGRAVED ON THE CISTERN**

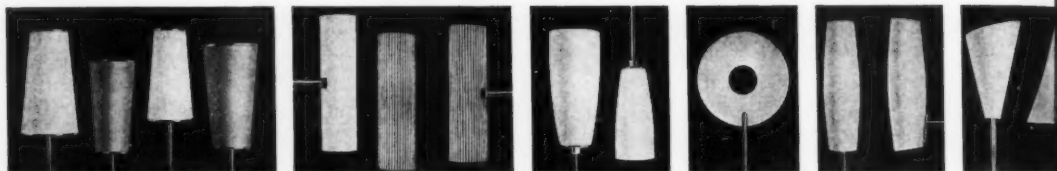
Shires are the largest manufacturers of flushing cisterns in the world. They also make W.C. pans and seats, pipes, wash-basins and complete W.C. suites.



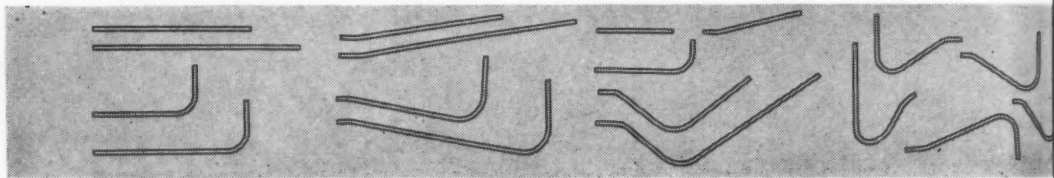
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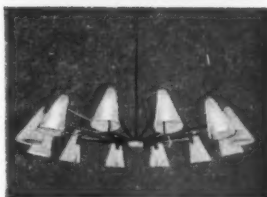
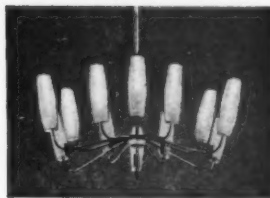
The six types of attachments. Each attachment consists of diffuser, carrier and lamp holder assembly



Types of arms available for use with pendant and ceiling fittings



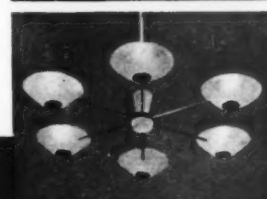
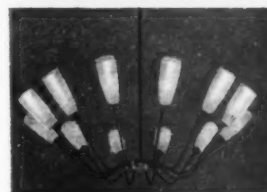
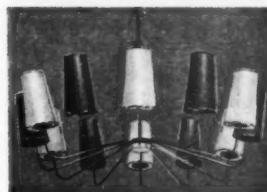
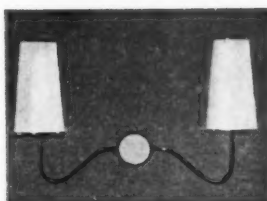
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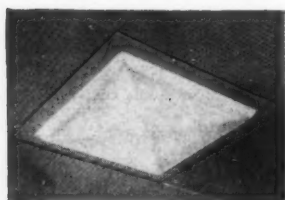
The General Electric Co. Ltd., Kingsway, London, W.C.2

G.E.C.
LIGHTING DIVISION

TUBALUX MODULE FITTINGS

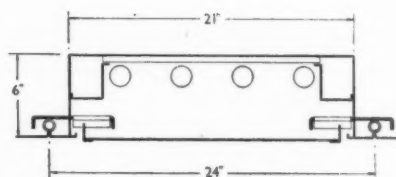
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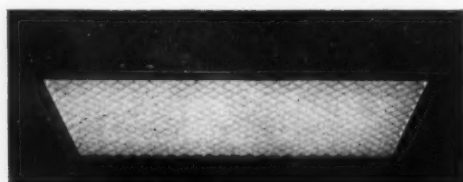
OPENING 2 FT. x 2 FT.

T254 Glass Diffuser
T264 Polystyrene Louvres
T274 Dished Opal
'Perspex' Diffuser
Lamps. Four 20W. 2 ft.



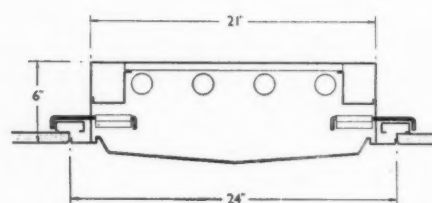
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GLASS DIFFUSER



OPENING 2 FT. x 4 FT.

T454 Glass Diffuser
T464 Polystyrene Louvres
T474 Dished Opal
'Perspex' Diffuser
Lamps. Four 40W. 4 ft.



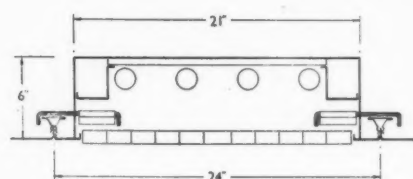
CULLUM CEILING

DISHED 'PERSPEX' DIFFUSER



OPENING 2 FT. x 6 FT.

T554 Glass Diffuser
T564 Polystyrene Louvres
T574 Dished Opal
'Perspex' Diffuser
Lamps. Four 80W. 5 ft.



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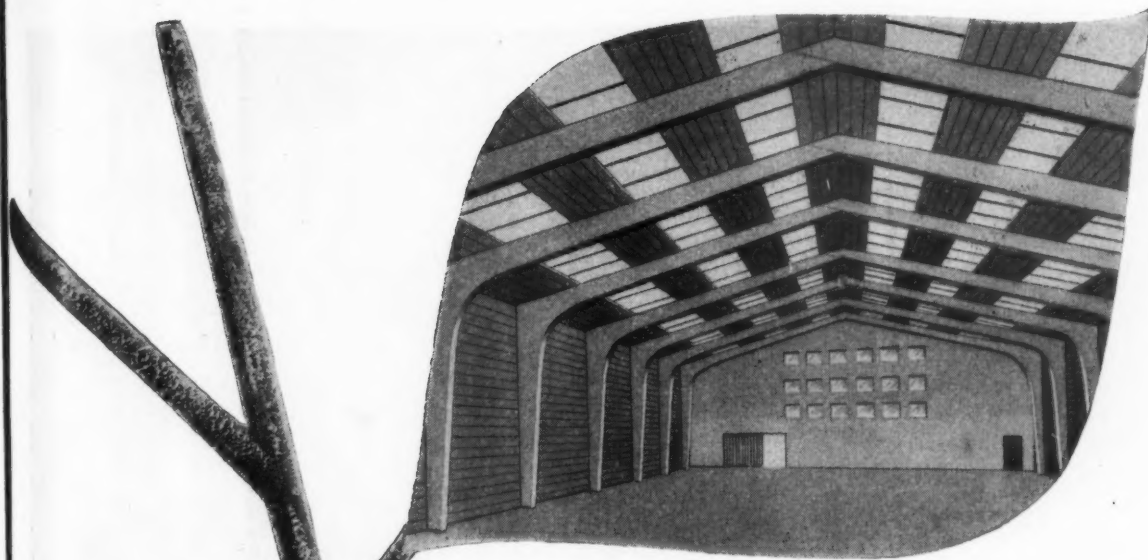
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and at Rodney Street, Liverpool 1.

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RFW 28



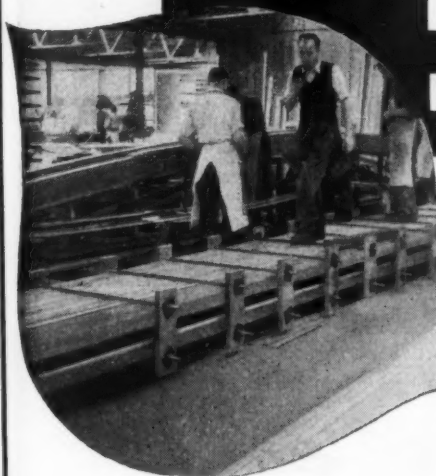
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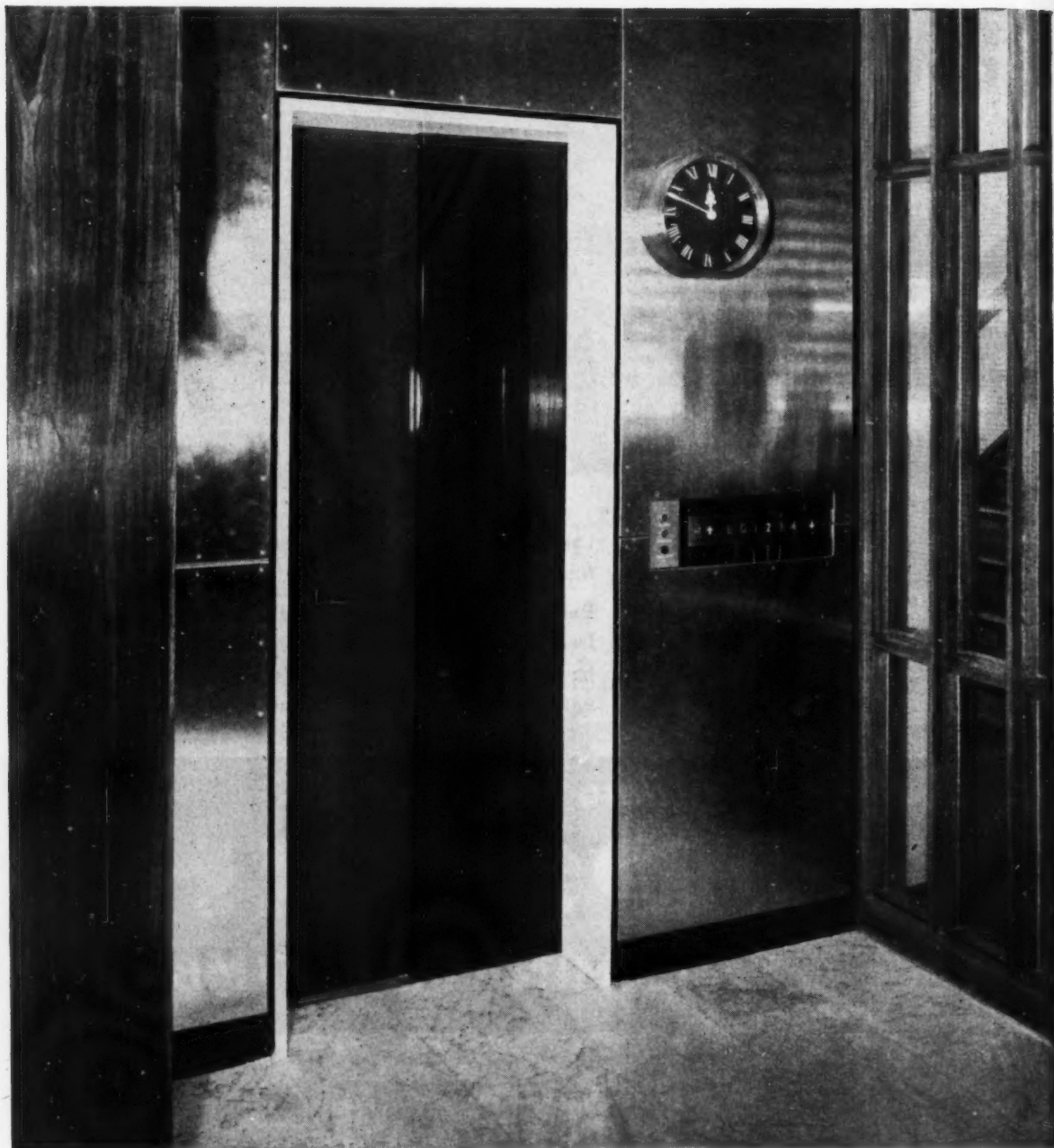
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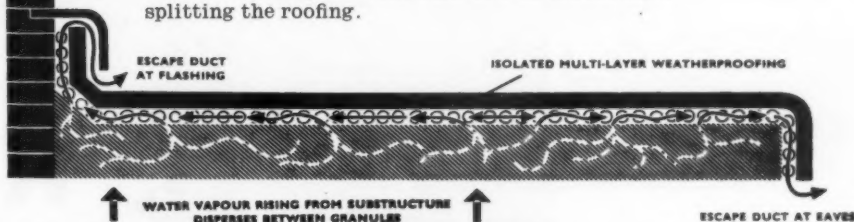
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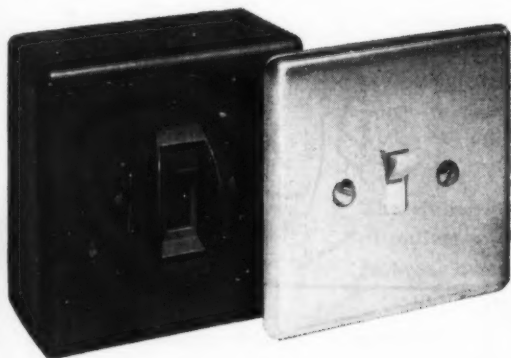
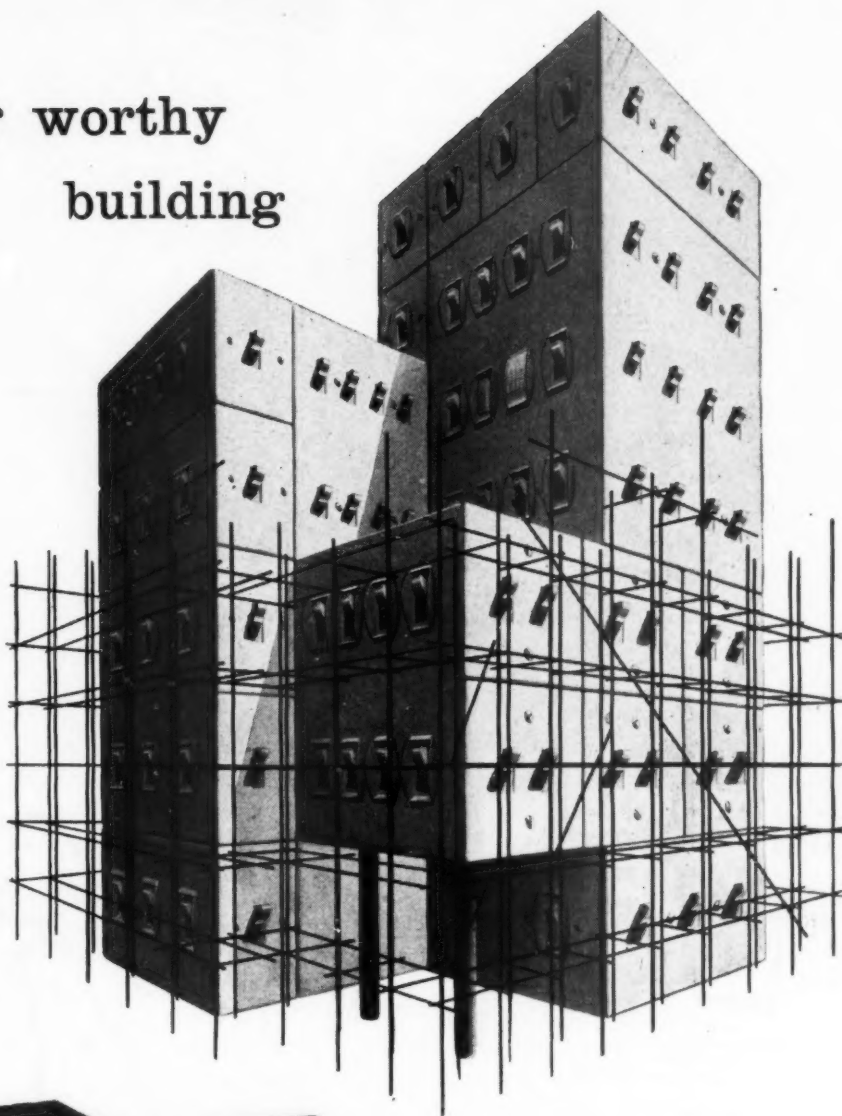
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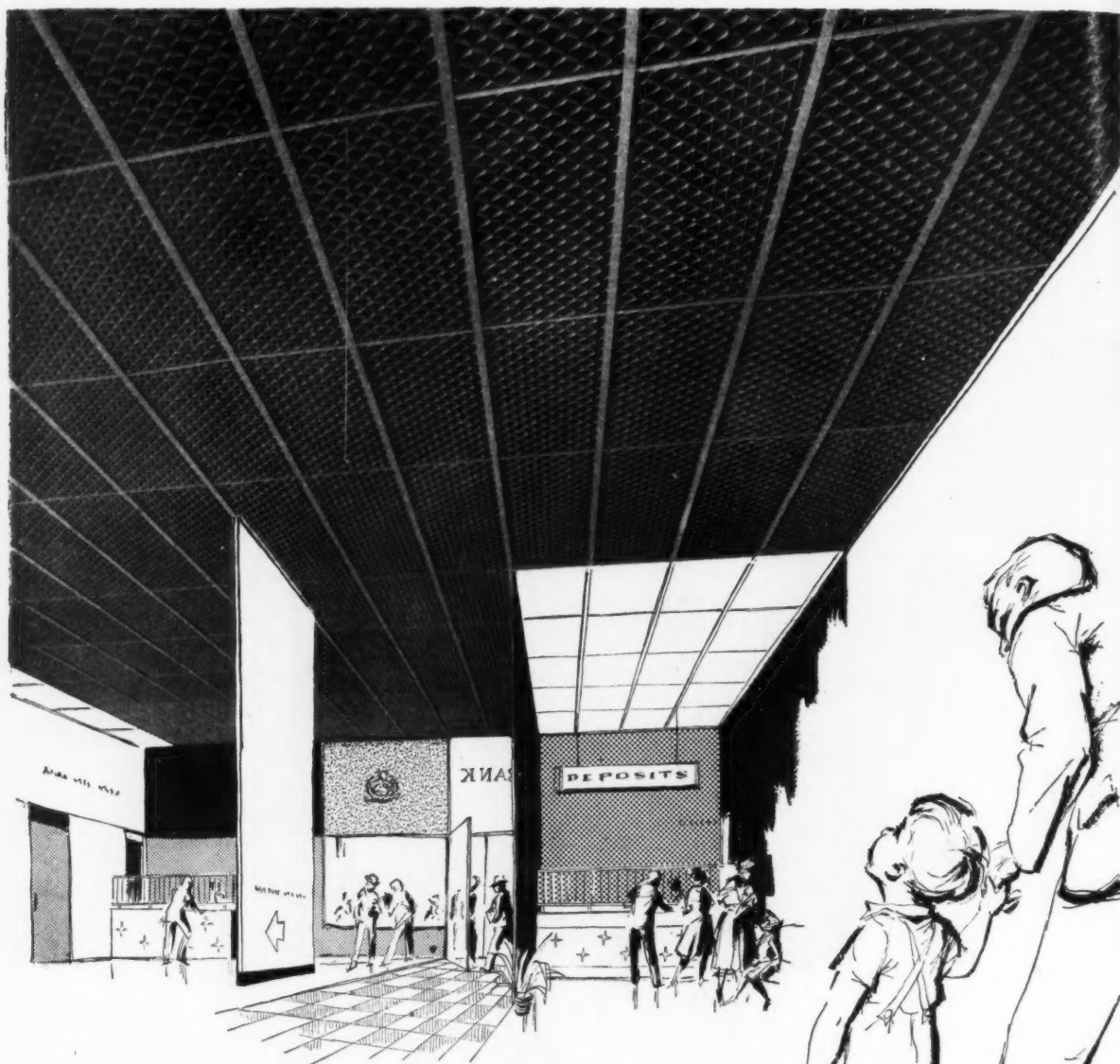


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multi-unit switching

A complete range covering one to twelve gang units in a variety of finishes. Switches of 5-amp single pole one or two ways; 5-amp intermediate or double pole; and 13-amp single pole one or two way ratings. Pilot light and Bell Pushes also available. A Clip attachment makes assembly to varying specifications, very simple and alterations during maintenance no problem. The Surface "Metalcast" units are quite unique with their matched finish boxes and knockouts.

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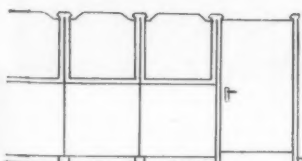
COMPANY ADDRESS

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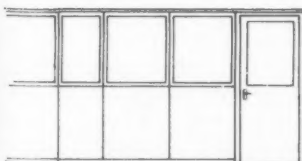
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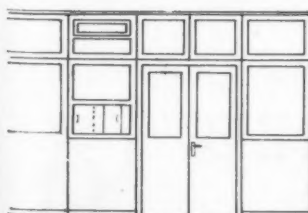
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*It's an open
and shut case...*



M'lud . . . may it please the court (architects, shopfitters and builder, too) to examine the technical points of this fine exhibit manufactured by Ajax Aluminium Limited.

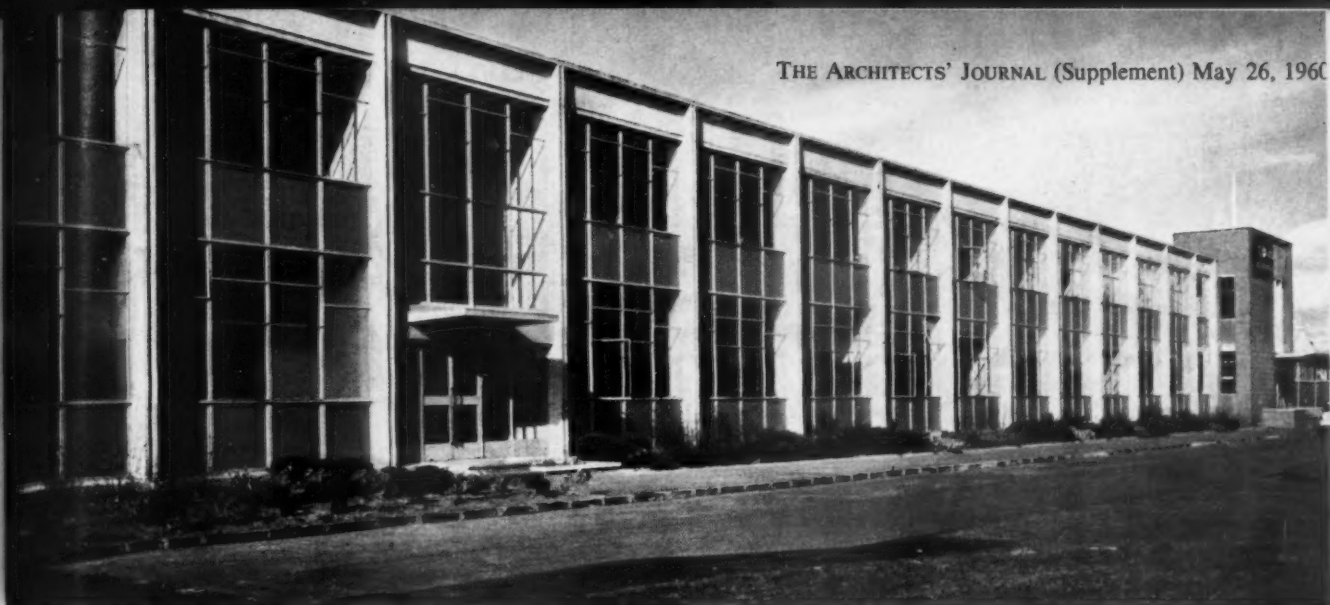
This pair of aluminium doors for openings 7ft. 0in. high by 5ft. 0in. wide, having narrow stiles for clean lines and flush joints secretly welded to provide maximum glass area for full visibility, are doors befitting to entrances which create that up-to-date first impression

so essential to the architecture of today. These strong, lightweight doors are polished and heavily anodised in satin silver, gold or black. They can be hung to existing frames or supplied with metal frames, and furthermore, frame sections can be supplied for the contractor to assemble on site without difficulty. Ajax Aluminium set high standards for these excellent, fine looking and efficient doors which are in fact standard doors from stock. Single doors can also be supplied.

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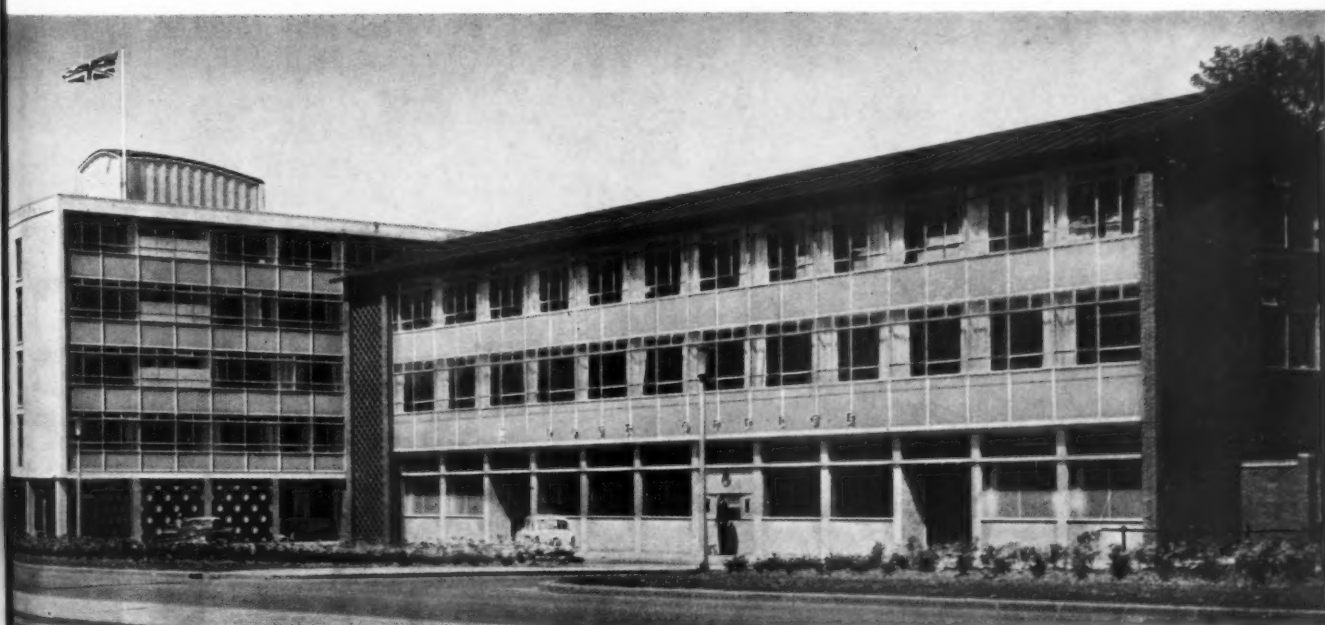




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- ▲ Turquoise "Muroglass" spandrel cladding for Sunbeam Electric Ltd., factory at Nerston, East Kilbride. By courtesy of Scottish Industrial Estates Ltd., proprietors of the building. Architects: Wylie, Shanks & Underwood, Glasgow.
- ▼ Daffodil "Muroglass" for spandrels totalling 3,500 sq. ft. approx. at Crown Building and Head Post Office, Crawley New Town. Designed by the Chief Architect's Department of the Ministry of Works.



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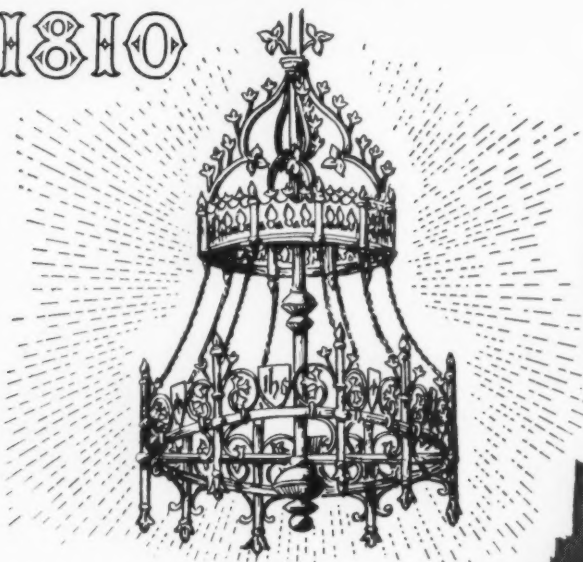
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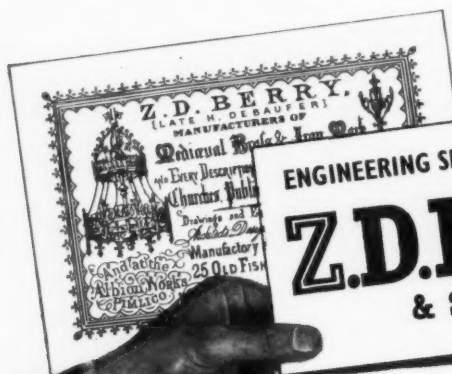
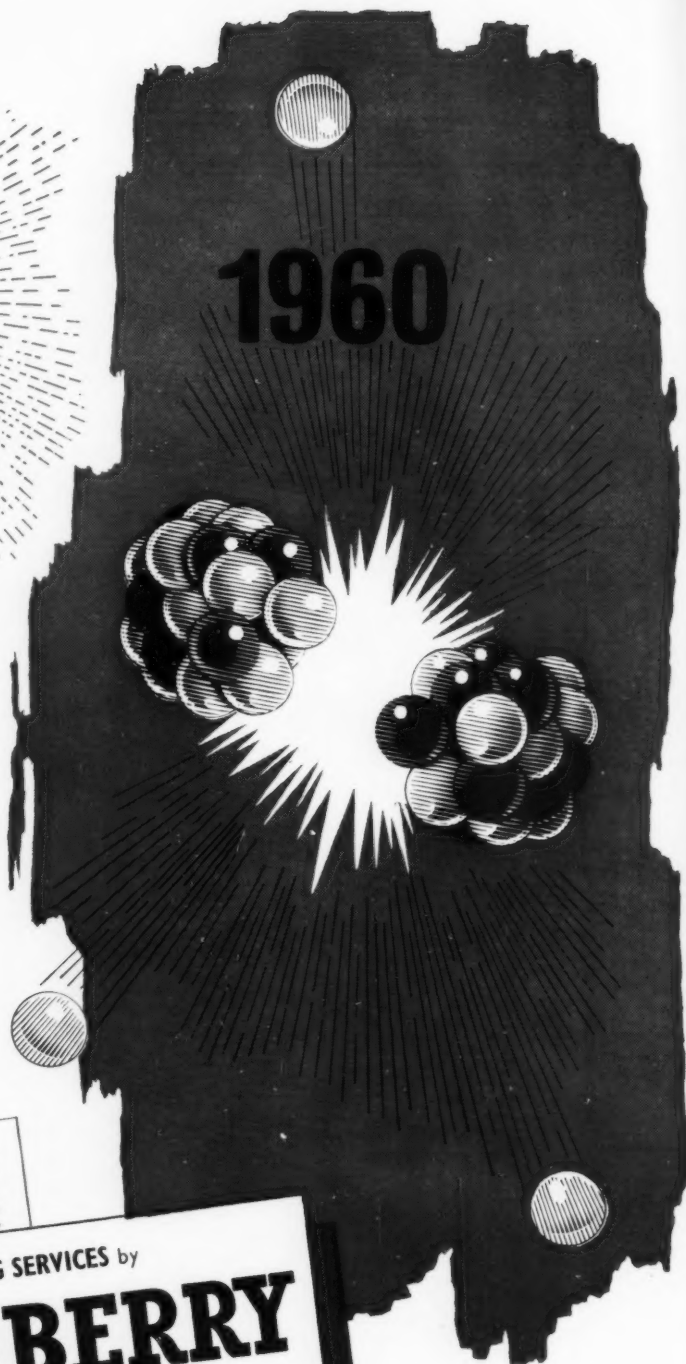
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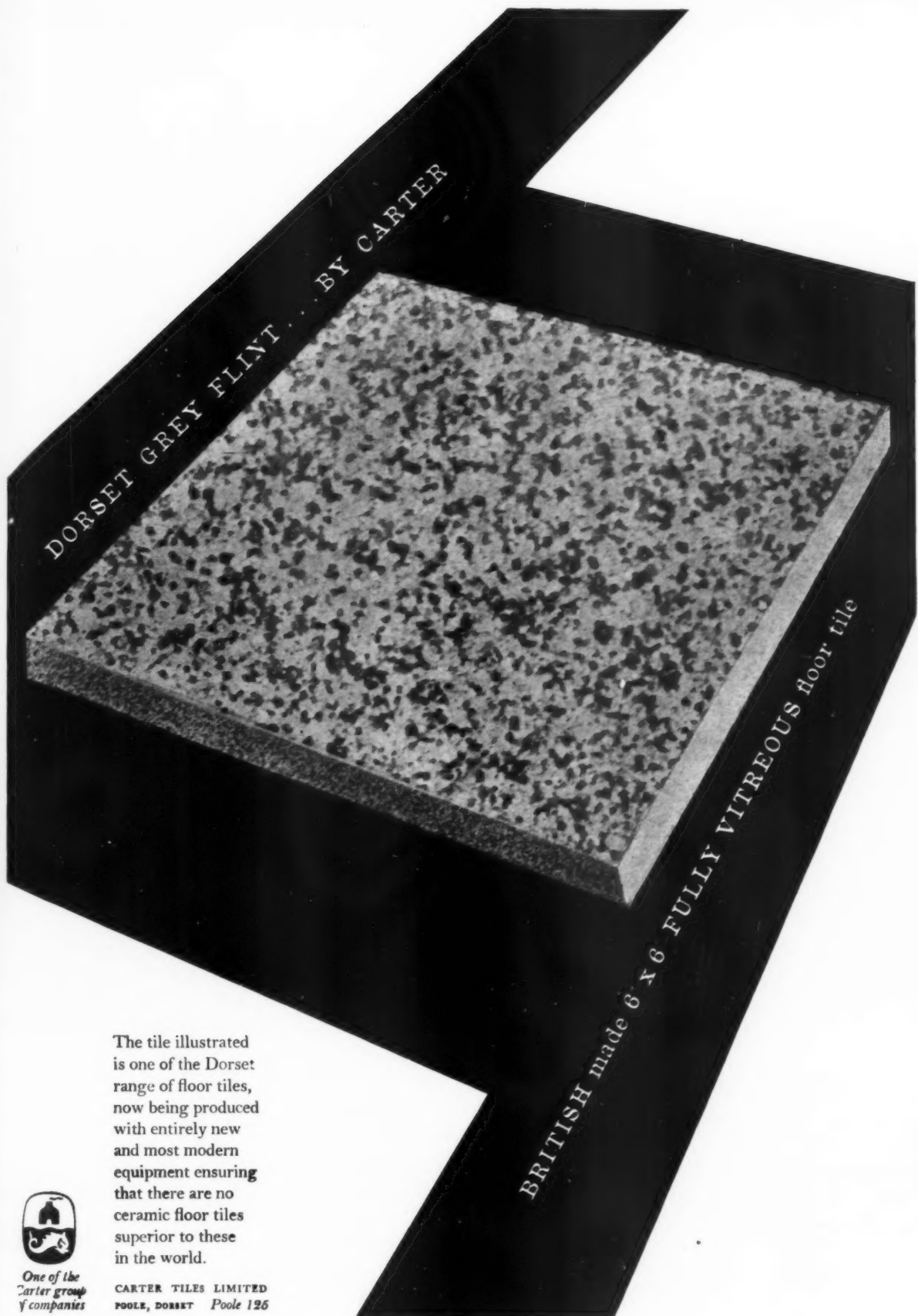
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P.3753



The Architects' Journal

No. 3397. Vol. 131. May 26, 1960

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NOT QUITE ARCHITECTURE

Life Among the Fixers—II

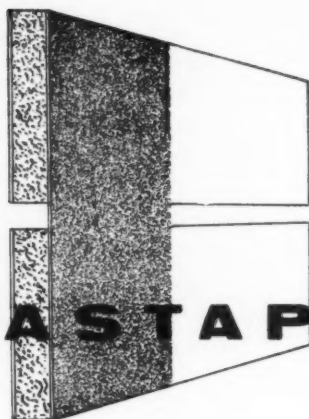
The first I knew of it was at 10 o'clock tea. I was sitting with Taffy and the Irishmen at the small table when I heard fierce argument and the word "strike" from the fixers at the big table. We all pulled our chairs over. Being a new boy, I didn't know what was going on, but my mate Sean soon enlightened. The fixers were divided into two gangs. We were working on the main block, and the others on a smaller block. The other gang had got four pounds bonus the previous week, and we had had nothing for the last month. Our boys were trying to persuade the other gang to strike with us for a two pound standard bonus.

"I look at eet thees way," said Joe the Pole, "eef we comes out wid you, the Guv'nor say 'what you complaining about? You got four pounds bonus last week'." "Yes, but look here, me matey," said Dublin, who was an expert in these matters, "you might get —all next week." Joe eventually conceded this point, and the rest of his gang voted to support us. Joe and Dublin were then elected, or rather persuaded, to be the fixers' delegation to the Guv'nor. They trudged off to the office, and the rest of us remained in the canteen. Our men returned shortly, saying that the Guv'nor had consented to talk to us after lunch, if we would go back to work. We all agreed that this wasn't good enough, and we decided to hold the job up.

A fresh brew of tea was made, and the card addicts began gambling for small stakes. Sean, Taffy, Dublin, Navy and I settled down for a smoke at our little table. Dublin offered me a roller. I had never rolled a cigarette before. The result was a crumpled piece of paper, with more air in it than tobacco. When I lit up, the thing burst into flames along its entire length and burnt my lips, which was regarded as a comic turn.

The next diversion came from Sean, who began to design himself a house on the inside of a cigarette packet. This was like a

PLASTAPAK



can be readily applied across gaps, between boards and between door and window frames and plaster walls.

'Plastapak' has been developed by the 'Co-coon' and 'Texikoon' teams, whose skill and technical 'know-how' protected the Royal Navy's battleships and the aero-engines of the R.A.F.

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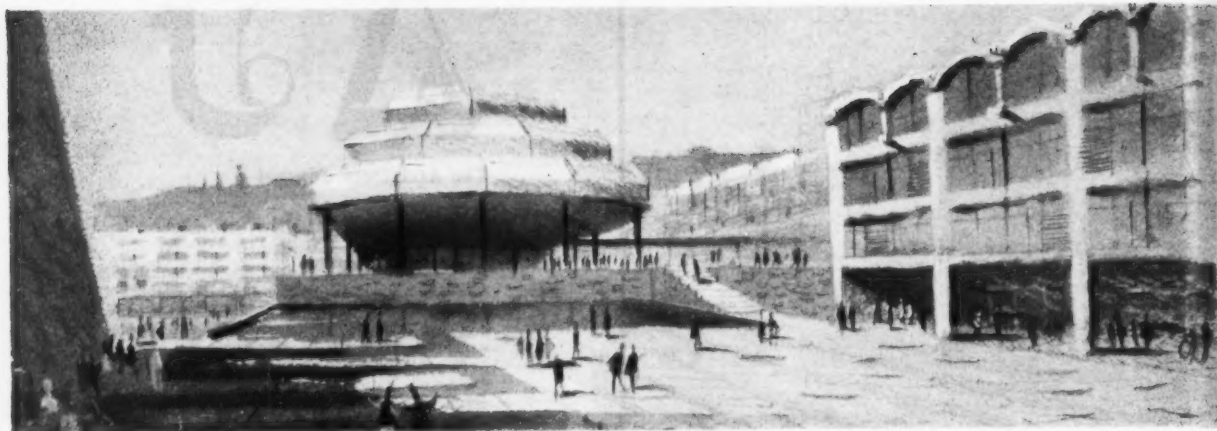
The walls and ceiling of the labour ward of a maternity hospital, shown in the above illustration, have been treated with "Plastapak" to provide a washable aseptic coating.

Complete protection demands a Brand technique

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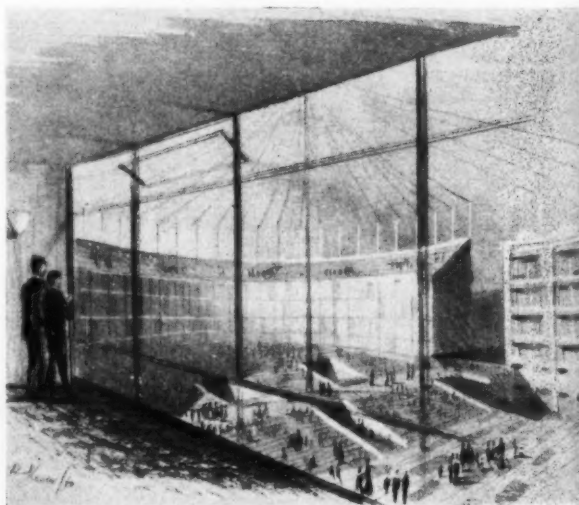
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Leeds: Our First Contemporary Urban University

The Leeds University Plan published this week—three sketches from which are shown here—shows a new university closely integrated in the centre of a city. It is a scheme which is realistic, soundly based and imaginative, and it exemplifies admirably the points this Journal made last week about the Norwich University plan, and the disadvantages of placing universities outside the cities of which they should be a part. The plan, outlined on p. 787, has some particular features which make it altogether outstanding: it differentiates building types according to the flexibility and possible growth and change required; it establishes the identity of different groups and functions; and it presents a bold, uncompromising traffic solution, with the new ring road passing through a tunnel to provide thorough-going segregation. If Leeds adopts this plan, it will have one of the world's finest universities in ten years' time, and we can only wish good speed to work so well begun by the architects, Messrs. Chamberlin, Powell and Bon.

Top: The Mathematics lecture theatres, seen from the top of the steps across the Physical Education campus, with its decorative pool. On right, the Leather Industry building and married students' flats, and Physics block. On left, the sloping wall of the Physical Education building.



Centre: The Senior Common room, seen from the Mathematics lecture theatre, flanked on left by the Hospital out-patients' department and operating theatres, and on right by the Geology block.

Bottom: Overlooking the Congregation Court from an upper floor of the Physics building. The working library is in the background with terraced seating in front.

small child's drawing, with a door, four rather squint windows, and a path leading up to it. The door was to have a moulded arch over it, and Sean began to explain, with the aid of a piece of string attached to his pencil, how this would be constructed. I shall never know how, but I regarded it with suspicion, because I worked with Sean, and I knew that he did subtraction sums with the the larger number on the bottom. Sean was diverted by Dublin: arguments between these two always followed the same pattern. Dublin would sail in with a torrent of words, leading inconsequently from one argument to the next, wanting to know on this occasion why Irish butter cost tenpence less in London than in Dublin. The crafty old West of Ireland man would let him finish, ask him not to bring religion into it, and say that Michael Collins had nothing to do with it either. Eventually they usually found complete agreement on the fact that the Irish farmer was getting money for his grain-sacks, but the man who was filling them was getting an emigration wage, and this was heartily endorsed by Navy.

Navy had once been a rigger. He and Taffy were always at loggerheads, partly because Taffy was always complaining, usually about the steel cutters. Taffy was about five feet tall. He wore a very large beret, strong thick-rimmed spectacles, and an apron which came down to his ankles. He smoked rollers, he explained to me, because you could put them back in the box and mix them up again. Navy would stroll up to the bench when Taffy was doing a difficult bend, and muttering curses on the ——— man who had cut the bar six inches short. Taffy was really a very good bender. "You've improved a lot since you came here, you know, Taff." No reply. "You're getting better every day." Taffy controls his rage with difficulty, his eyes, exaggerated by the spectacles, focusing frantically on his work. "I don't think you've got that one quite right, though, myself." Here Navy would nonchalantly produce a rule from his pocket and begin to measure up the bar. This was the last straw. Taffy would remove his roller, vibrating with rage, and launch into a long, voluble, and quite unprintable diatribe on Irishmen who were too ——— fond of talking about things they knew ——— all about.

The Guv'nor arrived at twelve o'clock. We all stopped talking, and began to wonder whether he could afford to pay the whole lot of us off. As it happened, he couldn't. When our case was put quietly by Dublin, he knew he was trapped, but he tried to preserve his dignity by consenting to a fortnight's trial of the two pound standard bonus. The implication was that if we didn't tear into it enough he would take it away again.

ALASDAIR MACEWAN

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

The Editors

THE TOWER THAT WAS SQUARE

BUT for the publication of one brash perspective Jack Cotton would now be building his not-quite-a-tower block on the Monico site, Piccadilly. That is the opinion of MOHLG inspector Colin Buchanan in his brilliant and well-considered report, much of which is published elsewhere in this issue. That perspective triggered off complaints, ending up in an official enquiry reported to cost £35,000, the waste of a lot of eminent people's time, and with the ludicrous situation of London County and Westminster City Councils defending a speculative venture against charges that it was ugly, unimaginative, and evasive of planning requirements. The danger is, of course, that the progressive individuals who remonstrated, and persuaded the Civic Trust to back their arguments, should relax their vigilance. The redevelopment of this country's central areas must be to comprehensive, three-dimensional plans, as the Town Planning Institute rather belatedly reiterates this week. But the plans must be backed by research and supported by authorities who are *in advance*, or at least abreast, of current enlightened planning thought and standards; and not, as the Monico enquiry shows, miles in the rear. A great deal of energy and brainpower has been spent negatively combating bad development. More has been spent on frustrating a development than has been spent in finding a satisfactory solution.

The LCC may well claim that it has not the economic resources to finance comprehensive redevelopment. It is failing in its duties to its citizens if it does not confront the Government with evidence of the financial and legal difficulties that prevent comprehensive redevelopment: the difficulties which the RIBA, in a special statement made last week, is calling on the Government to face.

TRAFFIC HOLD-UP?

What has happened in the past, and is happening today, is that each particular problem is treated by one set of specialists, who disregard what the other set is doing. What is required is a combination of policies, both economic and social. It means that the traffic engineer and the town planner and the economist will have to work together to

provide a comprehensive solution. D. L. Munby, Reader in Economics and Organization at Oxford.

Progressive architects and planners have been saying this for decades. Now that the theme of teamwork and the co-ordination of specialist activities in the field of town and country planning—including the planning of transport facilities—is being recognized in such places as Oxford, is it not possible that even a Conservative Government will face up to the need for planning? It has been recognized at any rate by Mr. Marples, the Minister of Transport, who said some months ago that he planned to set up a study group composed of architects, planners, traffic engineers and others to study the construction of new roads and parking facilities, and how these can be integrated with existing and future development. As Sir William Holford said at his Press conference last week, it seems that this project is hanging fire, as no further announcement has yet been made. One can conjecture that a cause of the delay is the fact that in making this proposal Mr. Marples is cutting across the interests of Ministries other than his own. But perhaps with at any rate one Cabinet Minister alive to the urgent need for planning on a national scale, and for more research on urban renewal and its implications, we may yet see planning restored to the importance it might once, and rightly, have achieved in the days of the Ministry of Town and Country Planning, if planning, with a change of government, had not become a bad word.



MINISTERIAL STEERING

Something pretty sensational is happening in the planning world. Hot on the heels of the housing Minister's decision to let Span go ahead with modern

housing on a Blackheath site (which the LCC wanted to litter with bogus Georgian stuff) comes his even more sensational decision about the Monico site. His decisions depend a lot, of course, on his inspectors' reports, and if you looked at the first, by E. W. Berridge, and the second, by Colin Buchanan, you would agree that only a very pigheaded man could have gone against them.

Mr. Buchanan, who handled witnesses and lawyers at the enquiry in a masterly way, has produced a succinct 38-page report of that twelve-day wonder which is a logical exposition of the flaws in the Cotton proposal.

Unlike too many architects Mr. Buchanan, who is also planner, engineer and author of a "must" book on motor traffic, does not seek the limelight. But he ought to have it. We need such a man on RIBA committees and in the lecture room.

PAST-PRESIDENT-ELECT

Basil Spence has been a good president of the RIBA—some people say

the best they have known. He has not been a great policy maker, but policy-making has not been needed in the last two years. He has been cheerfully and enthusiastically on the side of prestige and progress, and only the cynical and envious would doubt the immense influence he has had. We don't often have a practising advocate of modern architecture as president: in fact he is the first. I hope his influence will be even greater now that he is to be freed from the inhibiting job of representing all architects, whether they are good or bad.

*

There is one thing I know he wants to do, and that is to improve the standard of the Architecture Room at the Royal Academy. It was he, in fact, who jolted several of the better architects into submitting work in the last two years. Maybe next year, when he is on the selection committee, he can think of a way of bringing in more entries for this annual display, which represents the work of less than one two-hundredth of the architects in this country.

PRESIDENT-ELECT

At present the Architectural Room is largely a nasty reminder of the awful conceit in our profession. If you look at the perspectives and models you will see how many architects seem to do their designs with blinkers on, determined to make their buildings original and memorable, with little relation to other buildings in the same street. You can imagine how some of them would have cheered to hear the President-elect of the RIBA, Sir William Holford, telling his first press conference that architects who wanted their buildings to be memorable and significant should design with love. But Sir William, of course, is no man for putting the building before the setting, and during his conference he said that urban design was becoming a greater responsibility of architects.

*

I hope, incidentally, that Sir William didn't mind the *Observer* pulling his leg the other day about his low output of buildings in comparison with his predecessor-elect, Mr. Spence. The profession is badly in need of someone with his kind of clear-thinking, analytical mind. I only hope his talents will be properly used. I really think there is something in the argu-

ment that the failures of planning are partly due to Holford leaving the Ministry of Town and Country Planning before the machinery was operating smoothly. Subsequently he has been president of the town planners and the landscape architects institutes without noticeably affecting their progress. I hope his new presidency will produce results. Many staff tasks have to be shuffled into an order of priority. Holford is surely the man with a flair for this sort of thing.

A NOGGIN WITH NURSE

What gives Londonderry such airs? For some reason the Northern Ireland Hospitals Authority won't publish the total costs or the total floor area of the building illustrated in this issue. What is it afraid of? If public expenditure is shrouded in secrecy in this way, I don't see how we can ever come to grips with building cost problems.

Talking of hospitals, I wonder what Miss Nightingale (as she is still known at St. Thomas's) would have made of the recent conference of hospital administrators and boards of management in Scotland. At this affair John Weeks, of the Nuffield Foundation's Division of Architectural Studies, said that the future hospital should be built around a main street containing gardens, restaurants, shops, a bank, a post office, a barber and even a pub. He was supported by the secretary of Edinburgh Royal Infirmary—and no one present cried "shame!"

Incidentally it is encouraging to see the new, large hospital-building programme heralded by some of the largest-ever display advertisements for architects.

THREAT TO NASH

Do you care about London's better buildings? Are you worried about what will take their place? If so you will have been as puzzled as Kenneth Robinson, M.P., by the reply he got to a parliamentary question about the proposed demolition of the Regency houses facing the western part of Carlton House Terrace. The Chancellor of the Exchequer replied that "these buildings would not have been scheduled as of historic or architectural interest if they had not been Crown

property." But this is not true. Crown property is *exempt* from scheduling because it is assumed that the Crown will value good buildings properly—not, as it happens, a very bright assumption on someone's part.

The Chancellor went on to say that the Crown Estate trustees would take no action until their scheme had been seen by the LCC and the RFAC. But the scheme he referred to is a scheme for demolition and rebuilding. So that doesn't answer Mr. Robinson's plea for the retention of the houses—a plea that ought to be listened to, because all these houses are part of the great Nash scheme.

The Crown Estate are getting a reputation for behaving too much like business men seeking big returns and too little like trustees. And if the office blocks proposed for this important site are anything like their rumoured descriptions the reputation is justified.

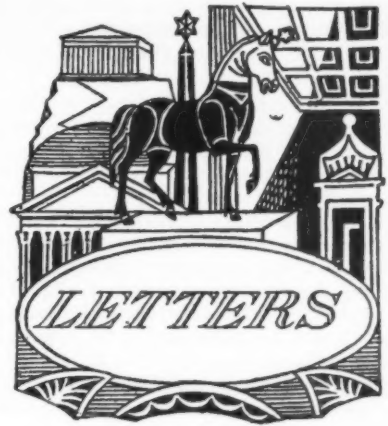
ANTHONY GIBBS

I'm sorry to hear of the sudden death, at the age of only 44, of Anthony Gibbs, the Chief Engineer of Cumbernauld New Town. AJ readers will have studied his excellent article in the *Motropolis* issue, when he described his road for Cumbernauld—a significant step in disciplining, while fully utilising, the motor car. He was an enthusiastic member of the architect-engineer-planner-surveyor team which Chief Architect Hugh Wilson established, and his death is a sad loss to the cause of professional collaboration.

VOTE-CATCHERS

The AJ has now been joined by its distinguished contemporary *The Architect and Building News* in publishing RIBA Council candidates' replies to questions in order to give the membership an idea of how to cast their votes. In addition, ASTRAGAL learns that at the last Allied Society Conference, members were strongly advised to vote for Peter Dunham, Sheppard Fidler, Norman Fowler and Jack Napper. A worthy if rather obvious list of principals for the provincial lobby, if one wants that sort of thing. ASTRAGAL can recall one or two provincial names who have achieved more.

ASTRAGAL



E. D. Jefferiss Mathews,
F.R.I.B.A., A.R.I.C.S.

Ewart B. Redfern, A.R.I.B.A.

J. L. Womersley, F.R.I.B.A.
Dist. T.P., M.T.P.I., City Architect, Sheffield

RIBA Council Elections

SIR: In your leader of May 5 you pose the question—why do people stand for election to the Council? You do not ask for reasons, but I am quite prepared to give mine.

1. I have been brought up in the tradition, and myself believe in it, that everybody should give such proportion of their time as they can afford and their responsibilities permit, to voluntary service of one kind or another.
2. I decided after the war that my profession was as good as anything else to devote part of that voluntary service—I believe in the service that architecture can give the community and was keen to help to develop it.
3. As time went on I was asked to do more and more work for the RIBA—and it was not my intention originally to give so much time but as it was asked for I could only assume that my services were wanted, so I gave them.
4. As my practice increased, and presumably my status and knowledge of the building industry, there was a "two-way" value in service to the profession—perhaps my experience of running a fair sized practice after starting from scratch was of some help—the intimate knowledge of the profession and industry and the contacts made both with architects, quantity surveyors and builders, was of value to me and my practice, and therefore to our clients.
5. If, therefore, when I am asked to do something for the profession—as now being invited by seven members to stand for council election—I am prepared to do as much as my time permits and my status requires of me (the bigger the practice or

job you have, I think the greater should be the voluntary service you give).

E. D. JEFFERISS MATHEWS

London

SIR: In reply to your barbed invitation printed on page 673 of the May 5 issue, your readers may find the following of interest:

1. I was nominated unexpectedly and at short notice by a group of Members to whom I was previously unknown. They knew that I had taken steps to find out the opinions of RIBA Members on the subject of Architectural Education (by a private questionnaire).
2. The replies from Members and Associations were such that I believe they deserve consideration. If I consented to nomination, it might help.
3. After reading your May 5 issue, it seems that I would represent Members with different opinions than those currently advocated in the ARCHITECTS' JOURNAL.
 - (a) I look upon Le Corbusier as an eccentric engineer who has done much harm to the cause of good architecture in the last 30 years.
 - (b) The Anti-Uglies lower the status of the profession.
 - (c) Architecturally, I can remember some of the buildings you used to fawn over in 1935 and your present-day opinions are suspect.

EWART B. REDFERN

Exeter

Progress Report on Sheffield

SIR: While not wishing to challenge in any way your right to criticise and comment as you wish, I feel I must correct certain errors of fact which appeared in your otherwise excellent "Progress Report on Sheffield" on April 21.

First of all it is not true to say that committee directives restrict our choice of brick or govern the colours of paintwork. These, for good or ill, are entirely the concern of the department. Our committees are in fact exceptionally co-operative in the degree of freedom which they allow in architectural matters and are indeed to be congratulated on the courageous support which they are giving to the use of unorthodox designs in our attack on Sheffield's particular problems. Secondly I must take issue with you on the question of landscaping in the Gleadless Valley department. Far from this being, as you suggest a treeless waste, it is in fact well planted with mature woodland which we have been at great pains to preserve and extend.

Lastly I would like, if I may, to take some of your space to record the names of the architects in my department who played a leading part in the teams whose work you illustrated:

Chief Housing Architect: Bernard Warren.
Netherthorpe: Jesse Dean.
Park Hill: Ivor Smith, Jack Lynn.
Grenhill (Radburn): Andrew Adam.
Gleadless: R. A. Shaw, R. T. Simpson, David Paxton.

J. L. WOMERSLEY

Sheffield

ARCHITECT PLANNER FOR PRESIDENT



Sir William Holford

A town planner for president: what could be more apt, when the centres of our cities are erupting with private developers' blocks and their streets are bursting with private cars? Sir William Holford lost no time, when he met the press last week, in making clear that he intends to be a town-planner for president and sees the way forward to higher status and increased responsibility for architects by way of urban design rather than solitary buildings, by team work, and by "sitting at the elbow of policy-making committees."

"We are far from being grunted," he said, when asked whether architects were disgruntled about things at present. "Our environment matters more as we get more mechanized and populated. Therefore we need to pay more attention to architecture, instead of less, to look at our cities and see what we can do."

How urban development to a coherent design could be achieved despite multiple ownership is the major problem he wants the RIBA to tackle, and since it cannot be achieved without the architect becoming a more important person than he is today, that sounds like a good basis for a fighting programme for the profession.

Outlining what he was careful to call "My scheme," for achieving coherent redevelopment, Holford suggested that public authorities should have the power to draw up comprehensive redevelopment schemes in cities, with full knowledge of the owners in the area and the needs of its various users, both business men and the public. This scheme would then become a "controlling standard," so that if a private development company put forward a better one, so much the better, but if a worse scheme came up, the local authority could say, "Sorry, this gives too little consideration to public amenities." "The L.C.C. has a comprehensive scheme for Piccadilly," he pointed out, "but no teeth."

"What has happened to Mr. Marples's Study Group on the car?" Sir William wanted to know. "Nothing has happened, yet disaster will come if we don't come to terms with this problem." In towns the traffic problem was first a question of the street pattern, and

traffic engineering was secondary. "We have to look at the street pattern, at what new capacity and what restriction would be useful."

For architects to be able to play their part in all this, many more need to be "systematically trained in all aspects of building and urban design," he said—a difficulty being the shortage of qualified teachers. "I've been teaching since 1932," said Holford, "but there are not many you can persuade." Secondly he wants more research into the whole problem, "and research into architecture must be done by architects." The RIBA, though not wealthy, he thought could prime the pump.

Asked how to encourage clients to ask for better buildings, Holford suggested this as a job for the national press. Clients should look for architects who would take full responsibility for their buildings rather than architects who would "give them no trouble."

He cited, as the last example of full collaboration between a client and an architect, that of Reginald McKenna with Lutens over the Midland Bank, when the client had nagged the architect to take complete responsibility, and the architect had designed everything down to the ashtrays. Such opportunities hardly ever arose today.

A building to be significant and memorable—in fact, to qualify as architecture—said Holford, had to be designed "with feeling—use the old-fashioned word 'love' if you like." And he listed as being among the few post-war buildings designed with this feeling, Coventry Cathedral, the University of Sussex, Churchill Gardens, Rushbrook Village, the Festival Hall auditorium, and the Herts, Notts and L.C.C. schools, "all memorable because they were designed with that kind of feeling."

"There are too few opportunities of this kind in too many types of buildings," he added, giving for example office blocks, railway stations and shops. One thought at once of the contrast between Marks and Spencers' pioneering work in the production of well-designed cheap clothes, and the lamentable lumps they habitually build to contain them.



CARDIFF

£8 million Hospital Competition Results

F. W. Milburn and Partners, in association with M. Harding and J. Surtees of Sunderland, have won the first prize of £5,000 for the design of a Medical Teaching Hospital in Cardiff to cost £8 million. The second prize of £3,000 was given to Charles B. Pearson of Lancaster, and the third prize of £2,000 to Messrs. Farms and Partners, Welbeck Way, London. The assessors were Sir Percy Thomas, P.P.R.I.B.A.; F. R. S. Yorke; J. H. Forshaw; Provost A. Trevor Jones, M.D., F.R.C.P.; and Dr. A. R. Culley, M.D.

BIRMINGHAM

Full-time Planning Course

The Birmingham School of Planning, under Leslie B. Ginsburg, is to start a new course for a Diploma in Planning in September, 1960. The course will be for one year full-time plus a second year part-time on a seminar and tutorial basis. It will be open to those holding architectural or other specified professional qualifications. Full recognition of the course by the Town Planning Institute will be sought.

The emphasis in the course will be on town planning as team work and on regional planning. It is hoped that it will appeal especially to young architects recently qualified as the opportunities for studying at first hand town and regional planning problems in Birmingham and the West Midlands conurbation are exceptionally good.

It is also hoped that collaboration between those studying traffic engineering at Birmingham University and students of town planning will produce some valuable research projects in the future.

The Birmingham School of Planning is also launching a one year part-time course in Landscape Architecture in September, 1960. This course is designed to assist candidates for the Intermediate Examination of the Institute of Landscape Architects as well as practising architects, municipal engineers and town planners who wish to advance their knowledge of the subject. If there is sufficient

demand it may be extended to become a complete three year part-time landscape course.

DUBLIN

International Library Competition

Premiums of £1,500, £1,000 and £750 are offered for the three best designs for a £500,000 library for Trinity College, Dublin. The assessors of this IUA-approved international competition are: the Earl of Rosse, Vice-Chancellor; Franco Albini, Professor of Interior Architecture, *Istituto Superiore di Architettura*, Venice; Sir Hugh Casson, Professor of Interior Design, RCA; Raymond McGrath, Principal Architect, Office of Public Works, Dublin; K. DeWitt Metcalf, American Library Consultant. The last day for registration is August 31, 1960, the last day for questions September 30, and the final day for submitting designs: 5 p.m., March 1, 1961. The conditions are available on June 15, and can be obtained, on depositing £5, from the Competition Registrar, Trinity College, Dublin, Ireland.

ROADS

Spending less than in 1938

Roads were the Cinderella of the investment programme, said R. M. Douglas, President of the Federation of Civil Engineering Contractors at their annual dinner, and he went on to show that we are devoting a smaller proportion of our capital expenditure on roads than we were in 1938 when there were only one-third the vehicles on the roads. Only 30s. per head of population was spent on road construction, he said, compared with £2 on coal, £3 on railways, £7 on electricity, £11 on housing and £30 on defence.

WATERLOO

£3,500,000 Development Refused

The Minister of Housing and Local Government has refused an application by the British Transport Commission to build a twelve-storey shop and office block costing £3,500,000 to a plot ratio of 4.8 to 1 on a site in York Road. The refusal was because the building (accommodating 2,500 office workers) would be too big. The Minister's letter stated that they had no objection to shops and offices on this site at the correct plot ratio and would not object to shops at ground level, but they recognized the value of putting them at first floor level.

BUILDING CENTRE

Exhibition of New Building Materials

On May 17, Lord John Hope, Minister of Works, opened a small exhibition of new

building materials at the Building Centre. Sir Alfred Bosson, introducing Lord John Hope, deplored the fact that governments tend to regard the post of Minister of Works as a stepping stone to more important positions and that, in consequence, the industry knows that it has little time in which to educate each new Minister.

Lord John Hope remarked with satisfaction that in the first quarter of this year we had manufactured more bricks than in any previous quarter in the history of the industry. He spoke also on the revived interest in maintenance as a decisive factor in building costs and, turning to the products on show, drew attention to the fact that so many of them had to do with thermal insulation in some form. The Exhibition is open daily from 9.30 a.m.—5 p.m. (Saturdays, 1 p.m.) until Saturday, May 28, inclusive.

TPI

Central Area Development

A memorandum submitted to the Minister of Housing and Local Government by the Town Planning Institute draws attention to the new problems which are arising in the redevelopment of central areas of towns, and calls for a research group in the Ministry to work on central area problems with the MOT and others. Redevelopment of areas of outworn and outmoded property is becoming increasingly common as traffic congestion increases, and as the tempo of commercial life quickens. Recent development proposals have aroused great public interest, and in some cases public apprehension.

Changing Agencies of Development

After the war comprehensive redevelopment of blitzed city centres, and building New Towns, were mostly done by public authorities. This situation has changed and private developers are now playing an increasing part in central area development. Problems which this new situation has brought to light are (1) the difficulty of fitting in proposals by private developers for a relatively restricted area into an overall scheme which will function properly for the benefit of the whole town; (2) the difficulty of ensuring that the proposals will give the best possible result in terms of architectural grouping and appearance; (3) the natural tendency of private developers to concentrate on the most profitable forms of development leaving the less remunerative to the local authority; and (4) the difficulty which private developers often find in acquiring by agreement sufficient land to carry out their proposals adequately.

Planning Legislation

The provisions of the Town and Country Planning Acts seem to be not wholly suitable

to deal with this new situation. The procedure for dealing with Comprehensive Development Areas under the Acts is elaborate and lengthy. Consequently, proposals involving the expenditure of many millions of pounds are often put forward before the Local Planning Authority has prepared comprehensive schemes for the area concerned. Moreover, the Comprehensive Development Area procedure has been devised chiefly in terms of the distribution of various uses of land, and does not deal adequately with the three-dimensional form of the development. Neither does it always bring to the notice of the public with sufficient impact just what is intended. While it would be unreasonable to impose on all development the rigidity of a completely preconceived scheme, more guidance is needed than is at present available.

TPI's Proposals

The TPI as the professional body most concerned, has therefore asked the Minister to consider whether it would be possible to

adapt or amend present procedures to enable Local Planning Authorities to deal more quickly and more adequately with central area development proposals. They stress the importance of securing a partnership between the Local Planning Authority, the Local Authority, and the private developer, in order to obtain a unified control over a sufficiently wide area to enable commercially profitable development to bear the cost of what is socially and aesthetically agreed to be desirable. They suggest the possibility of some form of development organization whereby the Local Authority and the private developers might co-operate in carrying out development.

The TPI asks the Minister to consider making provisions for a simple and expedited procedure for schemes or areas not at present covered by Comprehensive Development Area plans, but where extensive development is envisaged. Such a procedure should provide for (a) the planning proposals to be expressed in terms

of design of buildings and works and (b) adequate consideration of such proposals by the public. The Institute also points out that where a redevelopment plan is in course of preparation, or is proposed in the immediate future, the statutory period of two months for the decision on a major application is not long enough and should be extended.

Finally, the TPI asks that the Minister should give consideration to the adequacy of Local Authorities' finances to deal with public improvements in cases where redevelopment is imminent in the central areas of towns, and that, where major road improvements are being made, grants should be available to implement the redevelopment of areas affected concurrently with major road works.

The Town Planning Institute also suggests the setting up within the Ministry of a group to do research on problems of central areas in collaboration with the Ministry of Transport and other departments concerned.

RICS

Redevelopment of Decayed Areas

Large-scale comprehensive redevelopment was advocated by H. F. Alston, Kingston upon Hull's Planning Officer at the RICS last week. Mr. Alston explained the problems associated with the renewal of a large decayed area of 150 acres and with an existing population of 9,500 people which adjoins Kingston's central area on the south west, beyond the railway station.

Apart from 12½ acres of war damaged land and 30 acres of slums, the area contains a mixture of obsolete housing, 91 industries, 240 shops, 29 public houses, several inadequate school sites and practically no public open space. A truly formidable problem if one considers the proposals which envisage the removal of all industries (to be relocated elsewhere, possibly in flatted factories), shops and public houses, the creation of a number of large school sites and of a major public open space. Only one quarter of the existing number of shops will be reaccommodated since the demand has not been as great as expected, Mr. Alston said, and there was a growing tendency for people in Kingston

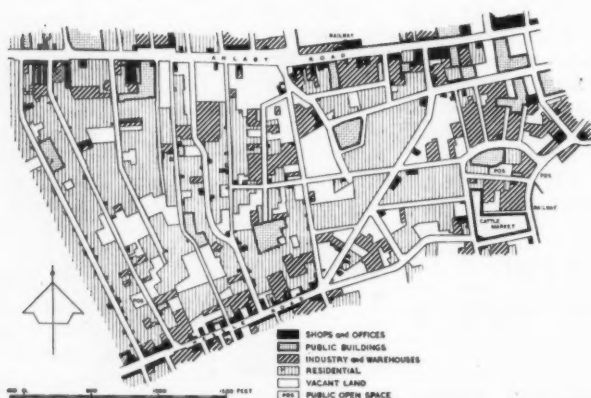
upon Hull to visit the central area stores for shopping. In addition, the nonsensical road pattern had to be rationalized by closing many roads and building several new ones. "It was obvious from the start that compromise was not possible. To consider dealing with the houses and leaving the industry to be dealt with as and when the time was opportune was dismissed as unrealistic."

This is how Mr. Alston described the basic approach to land and property acquisition. This clear and uncompromising attitude was characteristic of his approach to other problems: the "picking of plums" should be discouraged and redevelopment carried out over a broad area and not prejudiced by individual projects; he also gave another good reason for adopting C.D.A. procedure—land values can be pegged while redevelopment is in progress.

From the tone of the discussion it soon became apparent that Mr. Alston was in a lion's den. Most surveyors in private practice deprecated that this sort of development was being undertaken by a local authority in-

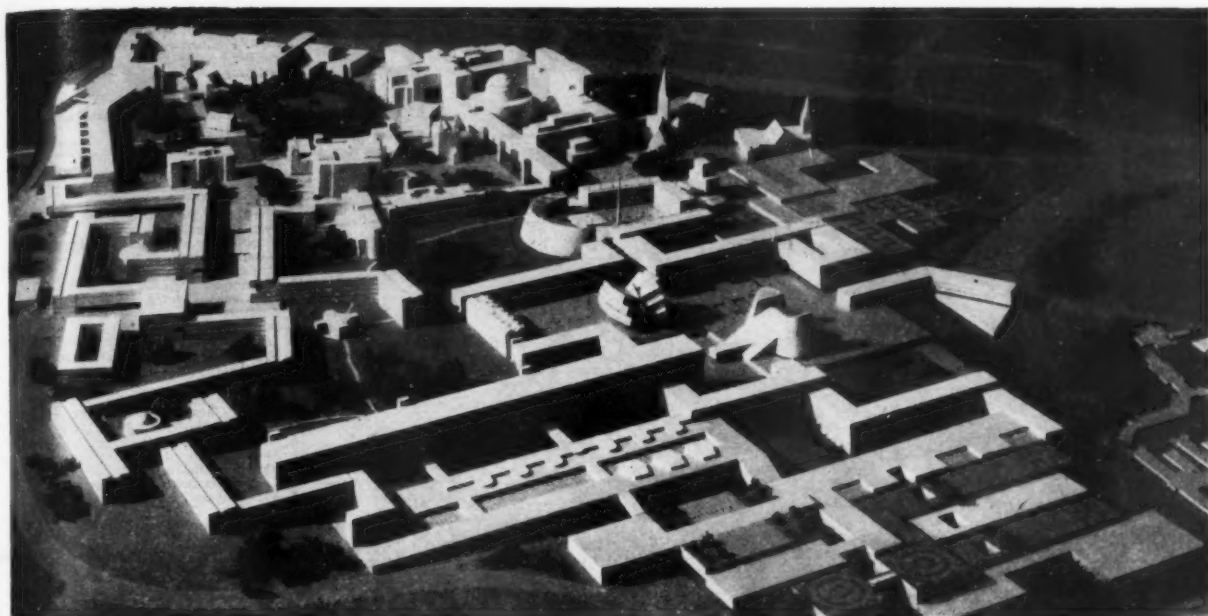
stead of by private enterprise which some thought should do the whole job while others conceded the acquisition of land to the local authority but still advocated that all redevelopment be done privately. Mr. Alston stood his ground well and tried to explain patiently that he could not see how private enterprise could possibly build the housing and shops at rents people in this area could afford, not to mention the provision of open spaces which bring no return whatever. However, one or two concrete suggestions were made from the floor: could not a central authority be established through which all C.P.O. areas would pass and which could off-set the losses on some against the gains on others? There was also a plea for research into the whole problem and a demand for new legislation to cope with the vexed questions of urban renewal.

Mr. Alston should be congratulated on his single-minded approach in laying the right foundations for comprehensive redevelopment over a large area in Kingston upon Hull. Let us hope that the 3-dimensional realization will measure up to the boldness his Council have shown so far in undertaking this formidable and urgent task. W.G.B.



The existing land use and the planned redevelopment in Kingston upon Hull.

LEEDS UNIVERSITY PLAN



Fifteen months ago Leeds University commissioned Peter Chamberlin, of Chamberlin, Powell & Bon, to prepare a development plan providing for an increase of the student population to 7,000 by 1970. The result is, in effect, a proposal for the redevelopment and renewal of a considerable part of the city's central area. Leeds is fortunate in having its university already established very near the core of the city. The plan exploits this advantage by proposing a vehicle-free university and hospital precinct providing completely uninterrupted routes for people walking from the existing town hall, library, art gallery and technical college complex, right up a south-facing slope to the only large park near the city centre, at the top of the hill.

This brave stroke involves closing all minor roads that at present cross the precinct, putting a section of the future inner ring road in a tunnel, closing a large derelict 19th century cemetery and building a teaching hospital as part and parcel of the new medical school to replace the existing, obsolete infirmary. These proposals may cause local heart-searchings, but they are all sensible and cannot be rationally opposed. There may be grounds for argument about building a big new hospital in the city centre, but clearly there must be at least one central hospital to deal with outpatients. The advantages of combining the medical school with the teaching hospital are obvious, and with clean air, plenty of grass and trees and motor vehicles kept well away there should be nothing to lose.

The precinct is organized about north-south and east-west axes which locate the main pedestrian routes. The north-south route runs downhill from the existing engineering department buildings, past the Lanchester

and Lodge Parkinson Building (administration) and the circular Brotherton Library and then through a series of courts defined by the new faculty buildings to the city centre by way of the new medical school. Residential accommodation on the western flank of the precinct lies at one end of the east-west route which runs across the site to link up with the students' union library and administration buildings, finishing at the vice-chancellor's lodge and two existing churches. The southern third of the site is filled by the teaching hospital.

The plan defines three building types corresponding to different degrees of flexibility. The first is the completely rigid building whose needs are known and whose future is fully predictable. These are the special function buildings whose forms are exploited, sometimes extravagantly, to give identity to the succession of courts strung along the north-south axis and forming the physically fixed and unchanging core to the precinct. Typical of these are the pile of 18 mathematics lecture halls like an up-ended concertina, the two truncated semi-circles on each side of a tent-like roof which enclose the indoor track and swimming pools of the physical education department, and the sickle-shaped working library consisting of superimposed double ended floors of carrels with central access strip designed to leave the main library free to serve post-graduate and research workers. This encloses one end of a congregation court designed to hold the full assembly of the university with a canvas velarium suspended from a central pylon and hooked on to the roofs of the surrounding buildings (like the Coliseum in Rome). Since a full assembly is only called for in summer when degrees are awarded it looks as though this splendid

idea could really work at a tenth of the cost of the very big conventional hall which would otherwise be required.

As the opposite extreme to these rigid buildings is the buildings for research which require complete flexibility of form, servicing and mechanical equipment. This need is to be satisfied by a system of modular structural components for dry assembly producing light single-storey enclosures with different types of roof and wall cladding according to need. These are built on a concrete deck system related to the terraced pedestrian courts and raised sufficiently above existing ground levels to allow room for services and car parking underneath. Most of the 3,500 car spaces allowed for in the plan are provided in this way. The rest are under one of the re-routed perimeter roads. All are under cover and out of sight. A good deal of service traffic can also be dealt with under these decks. Where road vehicles reach the end of their reservation it is assumed that electric trolleys will take over.

An intermediate building type with a capacity for change within certain limits has been defined between these two extremes to house generalized teaching, learning and research functions, and living accommodation for students. This takes the form of simple rectilinear slab blocks, cranked to produce the necessary external enclosures and kept down to a height of four storeys to avoid reliance on lifts and permit staircase grouping for study bedrooms. Identification of different faculties using this kind of accommodation is suggested through the use of differently shaped external stair towers. A similar device proposed for groups of study bedrooms is to link them to dining halls of different plan shape. This is the

LEEDS UNIVERSITY PLAN BY CHAMBERLIN



Key to Development Plan

1. Houldsworth School of Applied Science
- 2, 3, 4. Engineering departments
5. Boiler house
6. Mining
7. Chemistry School
8. Parkinson Building
- 9, 10. Brotherton Library and bookstack
11. Great Hall
12. Textile industries
13. Agriculture
14. Man-made fibres
15. University House and Union
16. Students' Union extension
17. Existing Dept. of Education
18. Arts Building
19. Economics, social studies, history, etc.
20. Trinity Church
21. Christian Centre
22. Emmanuel Church
23. University Theatre
24. Concert hall
25. Music department
26. Institute of Education
27. Working Library and reading room
28. University Art Gallery
29. Physics
30. Research laboratories
31. Colour Chemistry and Dyeing
32. Leather Industries
33. Married students' flats
34. Dining hall
35. Physical Education
36. Lecture theatres
37. Mathematics
38. Geology
39. Senior common room
40. Botany
41. Zoology
42. Psychology
43. Medical School
44. Dental School
45. Existing nurses' hostel
46. Infirmary
47. Accommodation for Medical School
48. Hospital outpatients' departments, etc.
49. Hospital ward block
50. Nurses' hostel
51. Dining halls
52. Study-bedrooms
53. Central stores
54. Memorial chapel
55. Existing Lodge
56. Shops
57. O.T.C., W.R.A.C., and U.A.S.
- 58, 59, 60, 61, 62. Car parks below buildings
63. Technical College
64. Student Health Service
65. Main workshops
66. Vice-Chancellor's Lodge

Key to spaces

101. Fountain Court
102. Union Square
103. Entrance forecourt
104. Congregational court
105. Mathematics court
106. Physical Education campus.
107. Medical court
108. Staff garden
109. Students' garden
110. Terraces
111. University garden
112. Decorative pools
113. Small formal gardens
114. Tree planting.

kind of whimsy that is presented for the best of reasons when one is in a hurry. No doubt it will be scrapped for more authoritative solutions to the identity problem when design work begins in earnest. At any rate the provision in the plan for living accommodation for about half the projected resident student population offers a welcome reversal of the University's previous policy of providing student living accommodation in dormitory hostels several miles away from the academic centre—a policy which seems the utter negation of the university idea, and liable to produce a community whose social focus is the bus.

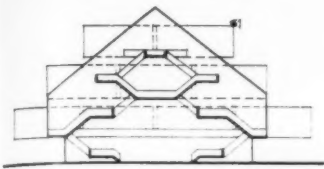
be the most painstaking, systematic and The whole plan is built up on what must thorough survey of a university's space needs that has ever been attempted. This work has produced certain techniques and concepts of measuring space which seem to be of the greatest importance in the field of building economy. It is impossible to summarize these results without falsification, and readers are therefore referred to the report itself which, incidentally, is a model of clarity, simple English, apt illustration and easy reference.

This plan is going to cost £1.5 to £1.9 million a year for 10 years from 1962 to 1972, com-

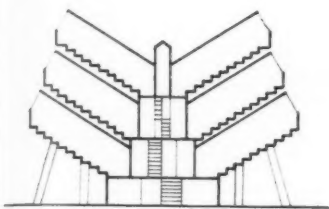
pared with the present University plan for £1 million capital expenditure per year. The difference is not much to pay for such a transformation as this plan would bring about.

Not only the University but the citizens of Leeds can count themselves lucky to have received a contribution of this quality to the development of their city, and we must hope that they will be encouraged by these first fruits of their far-sightedness to press on and complete the work that has been so well begun. One of the world's finest universities, not excepting American ones, is now within their reach.

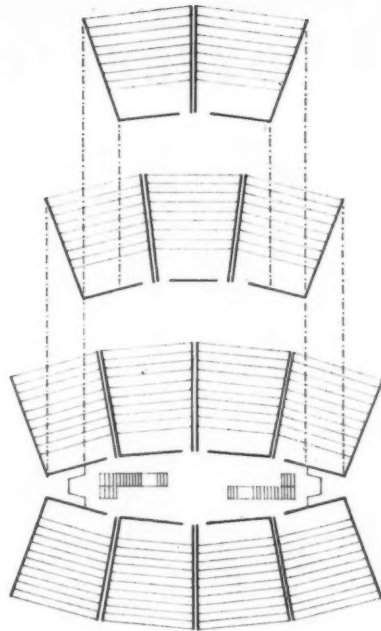
POWELL AND BON



(a)



(b)



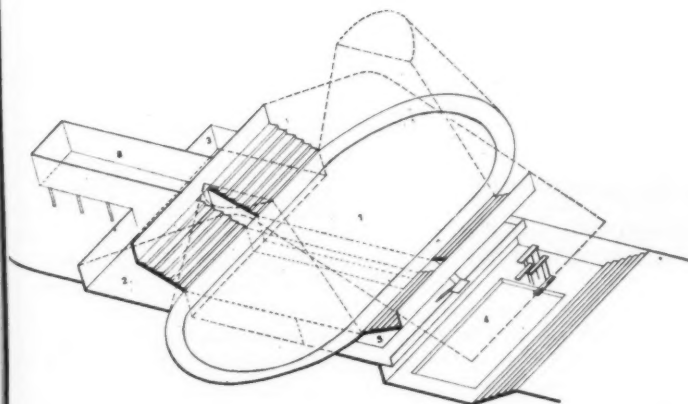
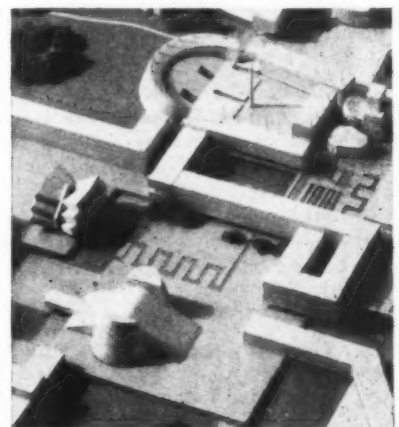
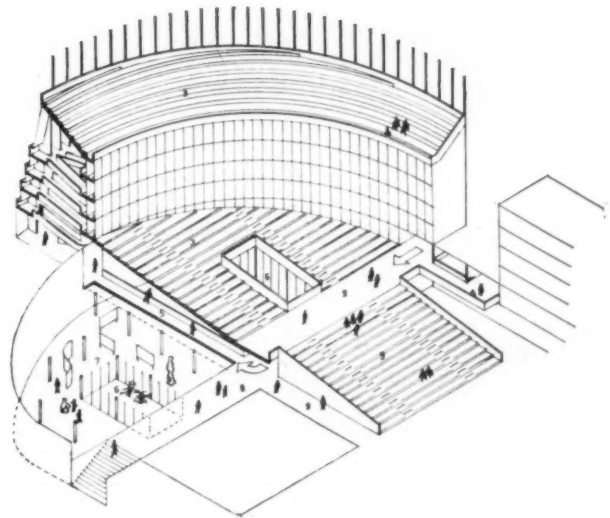
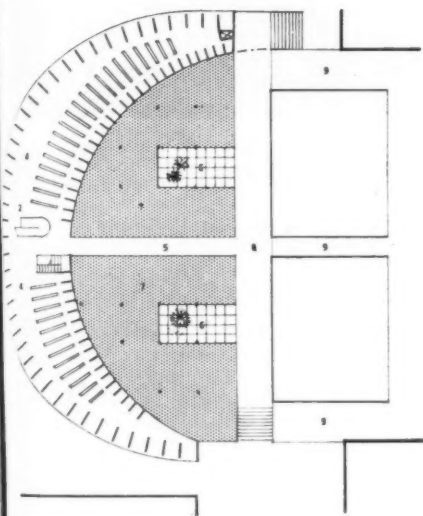
(c)

Top: Mathematics Lecture Block. (a) Longitudinal section through central lobby and stairs. (b) Cross section through stepped lecture rooms. (c) First, second and third floor plans.

Centre: Working Library and Art Gallery. Section and isometric projection, showing relationship between working library and art gallery, below the terraced seating. Galleries of carrels of library are linked to art gallery by a bridge.

Bottom right: part of model (see p. 786), showing these buildings.

Bottom left: Physical Education Centre.



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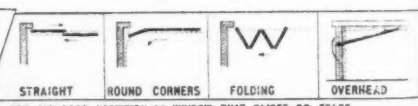
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A REPRIEVE FOR PICCADILLY

Inspector C. D. Buchanan's Report to the MOHLG

Last week the Minister of Housing and Local Government rejected the proposed design, shown above, for the Monico site, Piccadilly, on the grounds that: the appearance would fall below the high standard public opinion is entitled to expect on this site; that the advertising panels would be too dominant in the Circus and too visible over a distance; that the car parking proposals are not satisfactory; that it would fail to give a sense of enclosure and that it might prejudice the best solution of the problems of vehicular and pedestrian circulation. The inspector on whose report the Minister based his decision was Colin Buchanan, and we print his report at length because they epitomise some of the key problems of central area redevelopment in general as well as the failure of this design in particular.

This is a case of the greatest interest involving almost every aspect of city centre redevelopment. I decided at an early stage of the proceedings that the arguments could not be restricted too closely to the application itself, and in the event the Inquiry was as much into the future of the Circus as into the application. The matters to be discussed fall into three groups—the building design, advertisements and comprehensive development. It would probably be logical to start with comprehensive development on the grounds that it is fundamental to a consideration of any individual project in the Circus, but I have taken the view that as there is a specific application to be dealt with it is best to consider it first on its own merits. It also happens that much of the criticism directed against the proposal has related to the architectural design.

In the paragraphs that follow I refer to all those who opposed the application at the Inquiry as "the objectors." They were not always in agreement with each other, some stressed one point and some another, but they all in effect asked for the rejection of the application, and expressed concern about

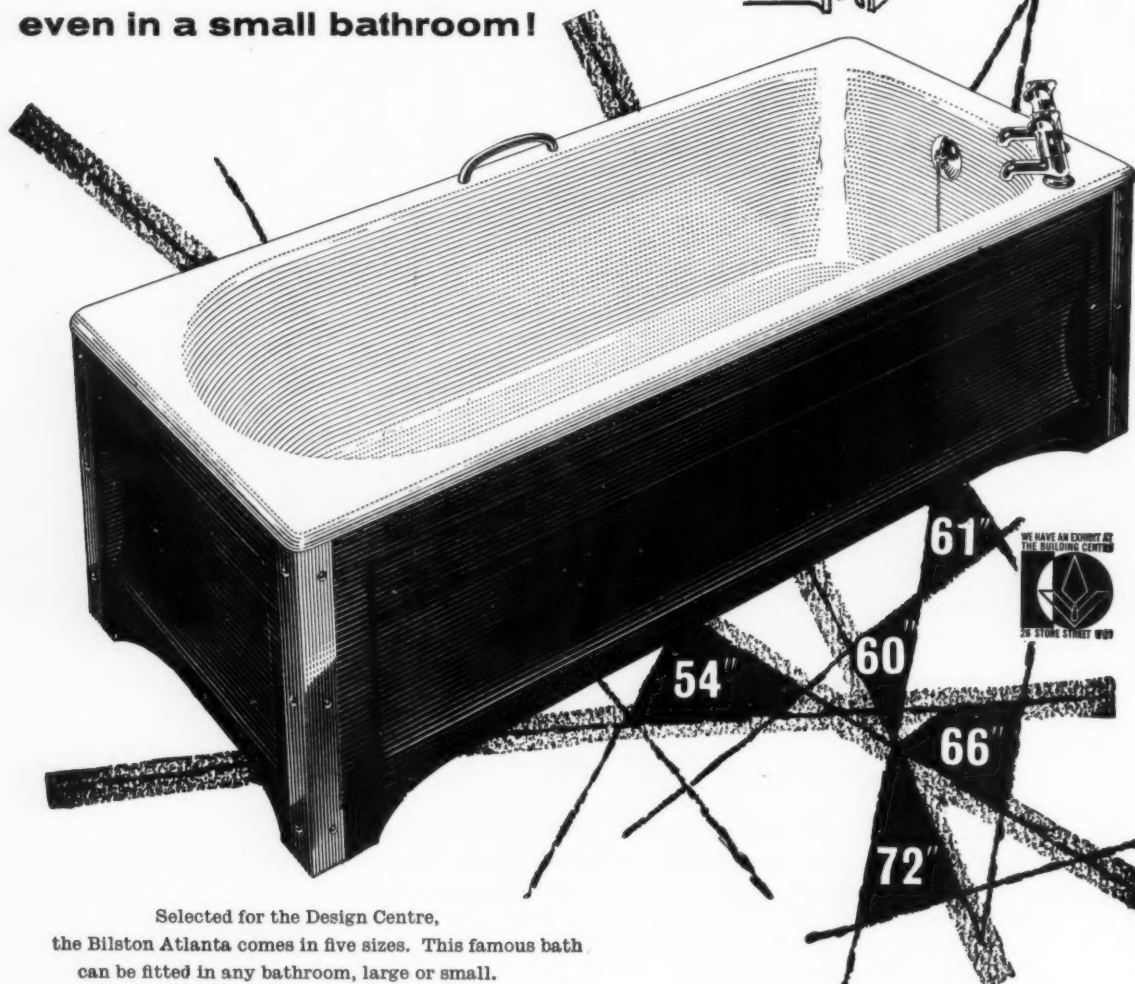
the overall planning of the Circus. I think the Royal Fine Art Commission can also be included among "the objectors." There was a suggestion for the Applicants and the Council that the Commission's true view was that expressed in their letter of February, 1959 when they recorded "no objection to a building of this general massing and volume," and that the letter of 15th December just before the Inquiry was mere acquiescence to a campaign against the project. I feel bound to accept that the December letter represents the considered views of the Commission, but equally I agree with the Applicants that much confusion would have been avoided if the Commission had been able to reach their main conclusions when they first saw the plans in February.

For the Applicants it was held that it was a good design, and the weighty testimony of Sir Howard Robertson was given in support. It was pointed out that when the design was first shown in the Press in March, 1959, though there was some criticism there was no general outcry; and in the preceding month the Royal Fine Art Commission, after three

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distinguished architects had looked at the plans, had virtually approved the main lines of the design. When further sketches were published, however, following Mr. Cotton's press conference in October, 1959 there was an outcry, but, it was suggested, the only valid explanation for the change of front was that a campaign against the project had been whipped up. Then, one day before the Inquiry, the Royal Fine Art Commission had delivered a devastating criticism of the design, but it was doubtful whether this represented their sober and considered views which, it was suggested, were contained in their pronouncement of February, 1959.

The County Council and Westminster City Council considered it was a good design which had to be viewed against the future scale of the Circus which would eventually be three-quarters the size of Trafalgar Square. The design had evolved as a result of the closest collaboration between the Applicants' architects and the Architect to the Council. The Royal Fine Art Commission in their pronouncement just before the Inquiry had merely been stampeded by a misguided campaign by certain architects. It was open to question how many of the objectors knew the facts of the case, and how many had seen anything more than the perspective sketch in the newspapers.

For the Civic Trust, under whose "umbrella" there appeared a number of well-known architects, and for other independent objectors, many criticisms against the design were lodged, ranging from the building being squat and lumpy to its failure to give any sense of enclosure to the north side of the Circus. It was held that the manner in which the design had evolved precluded any hope of fine architecture being achieved.

I think the Applicants must now greatly regret that they put out the perspective sketch which they did at Mr. Cotton's press conference in October, 1959. This was the drawing showing the building with a crane on top, and a large advertisement "Snap Plom for Vigour" on the main front panel. Had this not been issued it is a fair guess that the building would now be in course of erection. As it was, the sketch at once focused attention on the project, and it does not surprise me that strong feelings were aroused for the building could scarcely have been presented in a cruder light. I cannot explain why there was no outcry in March when other drawings were presented, but I think questions were justified after the October sketch. The sketch cannot be wholly dismissed as a flight of fancy, the floodlighting is improbable and the crane is a frank addition, but otherwise the drawing seems to be a reasonably accurate portrayal of the design as it stood at that time. Indeed, that is the design (May, 1959, revision) which is officially before you for approval, though the Applicants now ask that account be taken of some not insubstantial amendments made in December just before the Inquiry.

The reasons for the December amendments are still not wholly clear to me. Many people at the Inquiry seemed to think they were made at the last moment by a consultant architect brought in for the purpose, and in order to meet the criticisms of the Royal Fine Art Commission. This is obviously not the case. The consultant architect was appointed on March 27, 1958, and must be presumed to have played a part almost from the inception of the "tower and podium" theme which originated from the Council and was passed to the Applicants' architects on March 12, 1958. The first criticisms by the Royal Fine Art Commission were made in February, 1959, and it is clear from Messrs. Cotton, Ballard and Blow's letter of May 7, 1959, to the Council's Architect that the amended plans submitted with that letter purported to take account (by lowering the podium approximately 2 ft.) of the Commission's point regarding the scale relationship with adjoining buildings. It is equally clear from the Council's reply of July 10 that they were satisfied the point had been met. (The only other

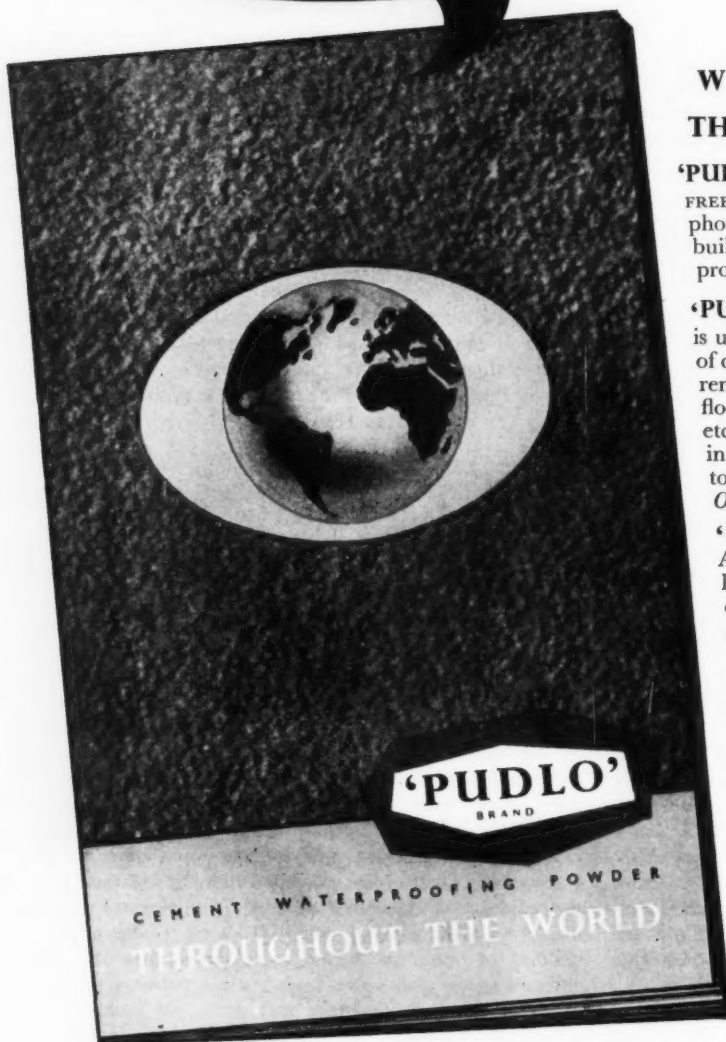
point raised by the Commission related to advertisements, and was rejected and still is rejected by both Applicants and Council.) The December amendments included a further lowering of the podium by nearly 4 ft. and other important changes never mentioned by the Commission, they could not have been connected with the Commission's second round of comment for that was made only one day before the Inquiry. It is possible the December amendments were the ordinary working out of the scheme, but I find it difficult to avoid the conclusion that they were made in an attempt to improve the design following the severe public criticism. The Council, it may be noted, were ready to approve the May submission without any of the recent amendments.

However, the point for decision is whether the design, including the very recent amendments, is suitable for this site. As was pointed out many times at the Inquiry it is largely a matter of taste, and, as the Inquiry showed, tastes can clash. My own view is that the objections put forward were sufficiently authoritative and convincing to suggest that, even with the recent amendments, the design has not attained the standard which should be expected on this site, and that if erected the building would set the wrong note for the redevelopment of the Circus. I think a great deal of the architectural difficulty arises from the shape of the site. This is part of the legacy from the Metropolitan Board of Works who could not have foreseen the disservice they were doing to the Circus when they slew Shaftesbury Avenue into it in 1886. Even allowing for the clipping off of the southern corner of the site for highway purposes, the site remains triangular with a blunt point facing the Circus. This is bound to create serious design difficulties, the southern boundary of the site is an indeterminate wavering sequence of straights and curves, and a building which follows it (as the podium does in this case) can hardly fail to be indeterminate and sloppy, lacking character and incisiveness. To each side of the centre the flanks are skewed awkwardly along Glasshouse Street and Shaftesbury Avenue, and the continuity of the façade is broken. A "convex" site facing a square is bound to pose most difficult problems for the designer who naturally wishes to take full advantage of the land at his disposal.

In this case, then, there is this irresolute, two-storey, convex podium 30 ft. high, and upon it is erected a roughly cruciform tower 12 storeys high. Some attempt is made in the design to spread out the base of the tower by wings and balconies, and thus make it seem that the tower grows out of the podium, but I accept the view of the objectors that the treatment has not proved successful and that there is a fundamental weakness in the tower-podium relationship. It seems to be a case of a building of one shape being placed on another of completely different shape with no real relationship between the two, and with the added disadvantage that the upper building is overpoweringly dominant over the lower one.

The design was much criticized for the jagged skyline that would result and for failing to give a sense of enclosure along the north side of the Circus with a wall roughly the height of the County Fire Office. I accept these as valid points, enclosure remains an important principle of design for an urban square of this kind, but it is a quality that has to be zealously safeguarded in the face of daylighting requirements, modern space standards, and the demands of motor traffic for opening up and widening out. It was submitted for the Applicants that the wings on the podium, and other buildings in the further distance, would convey a sufficient sense of enclosure. I find this difficult to accept, I think the enclosing walls of an open space need to be more or less along the edges of that space. Even granted the possibility of building to the height of the County Fire Office, or a bit more, along the frontage, the triangular shape of the site is still unfavourable to a satisfactory

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effect of enclosure. For this reason I much favour the suggestions by Miss Drew and Dr. Sharp for a lengthening of the straight frontage to the Circus by swinging Shaftesbury Avenue round so that it enters the Circus farther to the east and in a more nearly north-south direction. The Council seemed to find some highway difficulty in this, preferring that traffic should escape quickly from the Circus along an easy splay into Shaftesbury Avenue. They also pointed out that the suggestion would involve taking the London Pavilion site at once instead of in five years' time in accordance with their highway programme. I doubt the validity of the Council's first point; I accept the second, of course, but it could be used as an argument for a bolder and more comprehensive approach to redevelopment.

Sir William Holford thought the great height of the main advertising panel rising straight up from the building line was unfortunate. I think the position is rather worse than this, for the main front panel would in fact rise sheer from the kerb line, the tower being placed forward on the site and supported on columns at the outer edge of the pavement. I think this would result in the main advertising panel hanging over the Circus in a domineering manner. The Council repeatedly emphasized that the building had to be considered in the context of the new Circus which would eventually be three-quarters the size of Trafalgar Square, and therefore a general increase of scale was permissible. Having heard the evidence, I remain puzzled and sceptical about the size of the new Circus. I can see that it may eventually be lengthened eastwards by about 160 feet when the London Pavilion goes, but if the Criterion block remains (even though redeveloped as in the Council's Advisory Scheme) then the north-south dimension remains more or less as it is now. If traffic is eventually made to circulate by way of Jermyn Street then I can see that the traffic roundabout will be about three-quarters the size of the Trafalgar Square roundabout, but I doubt whether the visual enclosure in the architectural sense will be even half as big as Trafalgar Square. So I am not convinced that a substantial increase of scale is really justified. Whilst on the subject of scale I might mention that I agree with Professor Grace that the December perspective, in some curious way, makes the Circus look far more open and spacious than it actually appears from the top of Lower Regent Street.

For the Council it was said that granted (i) a plot ratio of 5:1, (ii) that (for commercial reasons) the building should cover the whole site on the ground and first floors, and (iii) a sizeable advertising area which would not interfere with the use of the accommodation behind, then a tower solution was inevitable. It was pointed out that in the Advisory Scheme a large horizontal panel of advertising had been proposed on the assumption that it would be possible to use the interior accommodation that it would be possible to use the interior accommodation. Discussions with developers had made it clear, however, that there was little chance of a store materializing on the second and third floors of the building. Mr. Dulake (a Civic Trust witness) proved that as far as plot ratio and daylighting were concerned, but with advertising space cut by at least a third, a more normal 7-storey building was practicable, but the architectural possibilities were not demonstrated and the Council were extremely sceptical. There may, however, still be other possibilities to be explored. There is, for instance, Sir William Holford's suggestion that if a tower is necessary it should be at the back of the site with wings running to the front, and the continuity of façade to the Circus secure by advertising treillages between the wings. If, however, it were proved that there was no other solution than the tower-and-podium, then I would be inclined to accept Mr. Peter Chamberlain's thesis that if, on any site, the design conditions dictate a wholly

unacceptable architectural form then the conditions must be altered. In this case alteration of the conditions might involve reducing the plot ratio, or regularizing the site by taking in more land, extending the straight frontage to the Circus, and realigning Denman Street and Shaftesbury Avenue. Indeed I am inclined to think that this last course is the minimum "comprehensive development" necessary to secure a satisfactory architectural result.

There was some questioning by objectors whether a high building is required or suitable at this point. I would not myself exclude a high building from playing some part in a composition for the Circus, but I share the objectors' doubts whether a baldly central position on a restricted site on the north side is suitable.

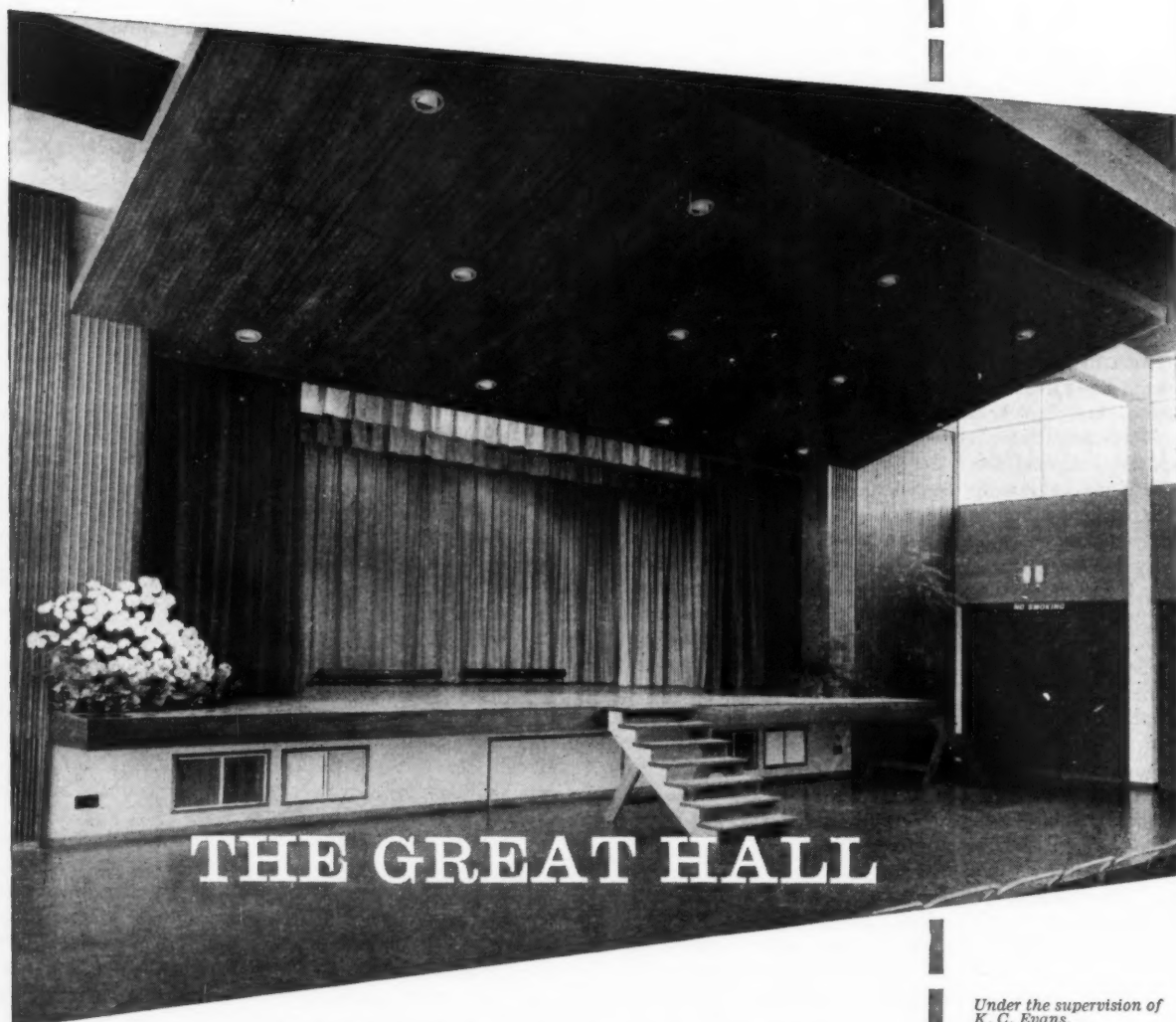
The method by which the present design came into being was the subject of much comment by objectors. The sequence of events is that a scheme (Sketch Scheme 6) was submitted in 1957 which was unacceptable to the Council on almost every count including aesthetics. The Council's Architect then considered the site with a view to assessing the possibilities, and in due course suggested that a cruciform tower on the podium might be a solution. The idea was developed by the Applicants' architects, and a design with a modified cruciform tower was produced. This in turn was modified in May 1959, and further elevational changes were made just before the Inquiry.

I do not think there was anything unusual or questionable in this procedure. Mr. Bennett explained that there are very few architects who can unaided steer a design through all the hazards of plot ratio, daylighting, byelaws, fire regulations and other controls. What happened in this case is happening every day all over the country when planning officers and advisory panels are seeking by consultation to improve designs which are unsatisfactory for one reason or another. A great deal of good work is done in this way, but I think the fact remains that the chances of brilliant architecture emerging from this to-and-fro system are not very great. I cannot but agree with the objectors that brilliant architecture only emerges when one mind (and I include in this term the group mind of a closely-knit team) forms a design conception and has the courage and tenacity to drive it through taking all the controls in its stride.

There was argument whether the proposed building would improve or worsen conditions for pedestrians. I doubt whether conditions could be much worse than they are at present along the frontage of the site, and if the building were erected there would be a gain in the provision of a 15-foot pavement (17 feet 6 inches between the columns of the tower) along the Circus frontage. The pavement along Shaftesbury Avenue would be only about 12 feet however and only about 7 feet along Glasshouse Street and Sherwood Street, and these dimensions seem very inadequate seeing that the pavements would serve first-class shops. No assistance would be given at this stage to pedestrians desiring to cross the road, that would have to await the future provision of subways, meanwhile the pedestrians might well be at a disadvantage through having to cross a wider carriageway with faster traffic. It seems a pity that so substantial a project cannot offer a more positive and immediate contribution to pedestrian safety and amenity, but the lesson may be that even more extensive redevelopment is needed if anything worth while in this respect is to be achieved. Also relevant to the matter of pedestrian traffic was the suggestion by some objectors that the project would increase the "draw" of the Circus. It was pointed out that, largely owing to the advertising signs across the windows, the existing offices had been under-occupied for many years, and the erection of modern offices would result in a large increase in the number of persons employed. The Applicants replied that they sought

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nothing outside the defined plot ratio and their Third Schedule rights. The Applicants' standpoint is perfectly understandable but the general point remains valid that the modern offices, the up-to-date restaurant, the exhibition hall, the extensive modern shops on three floors (replacing very small ground floor shops), and perhaps even the advertisements, would tend to make the Circus a busier place than ever, particularly for pedestrians. I think the objectors' concern for pedestrian amenities was justified.

As an incidental point to the preceding paragraph I should mention that the plot ratio for the proposed building is 4.97:1, but this is calculated on the site area *as it exists at present* and takes no account of the land which is being surrendered for road widening. At the same time the Applicants propose to extend the lower ground floor (but not the floors below this) out to the limits of the existing site below the road. I believe this sort of arrangement is not unusual in London, and I imagine it results from a process of hard bargaining between Council and developers. I estimate that the plot ratio calculated strictly on the site of the new building is 5.9:1. It occurs to me that if restriction of accommodation is one of the really critical factors in central London planning there might be a case for rigid application of the plot ratio rules even if it occasionally resulted in additional expenditure on such things as acquisition of land for highway purposes.

The Council's car parking standards for the various uses in the proposed building require a total of 100 parking spaces. The Applicants, finding difficulties in providing this within the building site itself, purchaser Moon's Garage on the other side of Denman Street, and they propose to reserve the two top floors thereof for the exclusive use of the new building. They are prepared to enter into a Section 25 Agreement to this effect, and this is an acceptable proposition to the Council. They will also improve the access to the garage from Ham Yard, and have acquired further property for this purpose. I do not think these arrangements are altogether satisfactory. I have already explained under "Description of Site" that Moon's Garage is a properly designed public parking garage, but it so happens that the two top floors have never been used for parking. They are now occupied by a firm of process engravers who will, of course, have to move under the proposed arrangements. It will thus be seen that the considerable building project on the Monico site will not result in any additional purpose-designed parking space whatsoever. It is a difficult point to assess, but I cannot avoid the conclusion that the Applicants, in finding at hand a ready-made garage not fully in use, though intended for public parking, are evading the basic purpose of the Council's parking standards that every new building should provide for at least a proportion of the traffic which it generates or attracts.

The location of the parking space was criticized by objectors and the correspondence shows that the Police are not wholly satisfied with it. Not only is it physically separated from the building it is to serve, but it is on the third and fourth floors of the garage and is approachable by lifts only. I think it is likely, therefore, that the parking space would be used for long period parking only. There is no provision in the building for short or medium period parking, and I would have thought it a much better arrangement if at least a proportion of the 100 spaces had been planned within the building itself. Given some readiness to rearrange the uses and surrender a little space for ramps I believe this could be contrived.

It was feared by the objectors that the strict reservation of parking space in Moon's Garage for the use of the proposed building would prejudice the redevelopment of the Moon's Garage street block. As I understand the matter the Section 25 Agreement would not involve the preservation of Moon's

Garage as a building in perpetuity. I imagine the Garage could be redeveloped as part of a larger scheme, but the obligation would remain on the developers to provide parking accommodation equivalent in capacity and convenience to that mentioned in the Agreement. This might be a nuisance for the developers when the time came, but the Moon's Garage street block is a sizeable one, and I doubt whether the requirement would involve severe difficulties.

Summarizing my comments on the building design, I think there is much weight in the objectors' view that the design, in the strictly architectural sense, 'is unsatisfactory for this prominent site. There may yet be other basic solutions that would yield a better result, but the fact remains that even after all the effort by the Applicants to acquire a sizeable area for redevelopment, the site is still awkward and restricted. The project would attract greater numbers of people to the Circus, but without offering any immediate and substantial improvement in amenities for pedestrians, but this again is partly a reflection of the difficulties of the site. The car parking arrangements are not wholly satisfactory, and represent a measure of evasion of the purpose of the Council's parking standards.

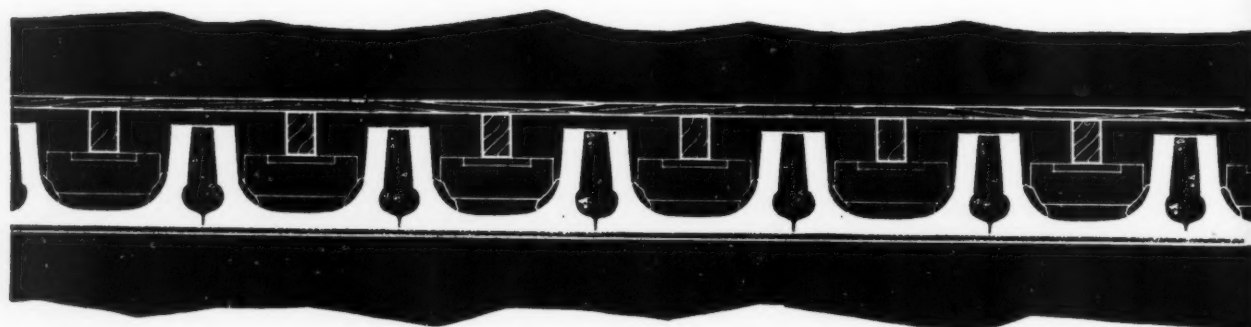
Advertisements

The proposal is for the building to carry five main advertising panels. The largest would be 60 ft. wide by 114 ft. high on the main front of the tower facing the Circus. The east and west flanks of the tower would each carry two panels 25 ft. wide by 100 feet high. All these panels would be purpose-designed for illuminated advertisements, that is to say the entire panel would be covered by a steel grillage supported about 3 feet out from the main wall and covered on the outside with aluminium sheeting upon which the advertisements would be hung. In the space between the main wall and the grillage there would be catwalks and lifts for maintenance staff, and here would be housed all the apparatus for operating the signs.

For the Applicants and the Council it was held that purpose-designed advertising space of this kind was logical and technically sound, and that the practice of draping signs over buildings and across windows was ruinous of appearances and gravely detrimental to interior accommodation. For this reason the Royal Fine Art Commission's suggestion for the building "to be treated as a background for a much freer kind of advertising" was rejected.

The objectors found fault with the advertising arrangements for the size and height and prominence of the panels, and various suggestions were made for alternative methods of display. It was interesting that only Professor Grace from USA suggested there should be no advertising at all, but that artificial lighting effects should be accepted as an element in the design of the Circus.

The advertising arrangements are of course quite inseparable from the general design of the building. There can be no doubt that the panels emphasize the general shape and massing, and to the extent that those are unsatisfactory then the panels aggravate the situation. But simply considering the advertising arrangements in isolation, I think the Applicants are perfectly right in saying that in so far as illuminated signs are to be fastened to the walls of buildings, then it is desirable to have properly designed sites for them clear of windows. The question that arises in this case, however, is whether the purpose-designed sites are not altogether too high and too large, and too encouraging of very big and expensively elaborate signs which would be semi-permanent and dominate the Circus for years at a stretch. The Coca-Cola sign in the December perspective is 60 feet across (the present one is 40 feet), and obviously there is the possibility of one huge sign



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covering the whole front panel, as with "Snap Plom for Vigour" in the October sketch. Small signs would be useless right up at the top of this huge panel.

Mr. Osbert Lancaster in his evidence warned against the dangers of repeating "the worst excesses of Times Square, New York." I have not seen Times Square, but I agree with Mr. Lancaster in being fearful of the idea of large signs without subtly dominating Piccadilly Circus, and still more fearful of the final result if other advertising towers were permitted. The importance of the present case is that it is the first time full-scale tower advertising has been proposed in London.

Objectors protested that the signs would be visible from various points far beyond the confines of the Circus, and there was a good deal of argument as to where these points were and how much would be visible. It would require an intricate survey to determine the matter accurately, but I have no doubt that there would be many places from which glimpses of the upper part of the tower would be obtained. On the Applicants' own showing, for instance, some 30 feet of the top of the main panel would be seen from the Riverside Walk near the Festival Hall. I was at first inclined to dismiss this question of distant views of the signs as of no great importance, but I changed my mind after visiting the Riverside Walk after dark. When I looked across the river at the fine prospect with the nearer buildings showing darkly against the further glow and with no commercial elements in the view at all, I decided that for myself I would regard a building carrying advertisements as a most unwelcome intrusion. (The Thorn Building off St. Martin's Lane, which is of roughly comparable height to the present proposal, is clearly visible from the Riverside Walk, and I used this to help form a judgment of the effect of a tower with signs.)

The principle of advertisements at Piccadilly Circus is widely accepted, and probably few people would object to signs being glimpsed from the roads leading into the Circus, but my personal view is that it would be breaking dangerous new ground to extend the visibility of the signs to any material extent. It is not, of course, only the view from places on the ground that has to be considered, the tower would be visible far and wide from upper floors of buildings, and people in flats and hotels might well feel that advertisements were seriously intrusive. I emphasize again that this is the first case of tower advertising, and I think it requires very careful consideration.

The objectors put forward a number of ideas for other forms of advertising—treillages and free-standing displays, for instance, and there were suggestions that advertisements might be kept off the buildings altogether and confined to the central piazza. I think the real lesson of these suggestions is that there are still other possibilities to be explored, possibilities that would make for a more subtle, more intimate, more lighthearted and generally gayer and fresher result than would obtain from the huge panels now proposed. The same thought was probably in the mind of the Royal Fine Art Commission when, using a phrase too easily open to misunderstanding, they spoke of the building being "treated as a background for a much freer kind of advertising." I do not think it was their intention that advertisements should be sprawled all over buildings regardless of fenestration.

There was much discussion during the Inquiry about the way the legal powers of advertisement control would apply to the large panels. Whether for instance, Westminster City Council (who have delegated powers) would licence a whole panel, or give separate approvals for individual signs. It seemed to be agreed eventually that either alternative was open to the Council, and I do not think there is any particular legal point which I should formulate. There was a point, however, which I thought it necessary to emphasize to the parties, and this was

that if approval was given to the building design as submitted with its special panels for advertisements, it would, in common sense, imply approval of the use of the whole of the panel areas for advertisements, and it would be of no avail for anyone to come along later and seek to restrict, for example, the height to which advertisements should extend. The point is important in relation to the Ministry of Works. That Department has accepted the building design but has reserved its position on advertisements, but I am not sure whether it was realized that in this particular case acceptance of the building design implies acceptance of the advertising panels, and that the scope for subsequent control of the advertisements is very limited.

Comprehensive Development

The objectors urged that no building should be sanctioned on the site unless it was demonstrably a positive step forward in the realization of a comprehensive scheme for the redevelopment of the whole Circus. The Council did not dissent from this view, they claimed that the present design was fully in accordance with the comprehensive plan which they had prepared, but they added that, in a case of this kind, the comprehensive plan must itself be a continuously evolving design with frequent revisions to meet new ideas and circumstances. This explained the fact that the present proposal on the Monico site did not fully accord with their Advisory Scheme prepared in 1956.

There is no plan or model which can be pointed to as representing the present stage of evolution of the Council's comprehensive plan, but an idea can be formed from the evidence given at the Inquiry. The three-stage highway improvement remains the basis of the plan. The first stage is to clip off the apex of the Monico site, the second is to remove the London Pavilion and set back the frontage of Great Windmill Street in order to make an oblong traffic roundabout, and the third stage (much more indefinite than the first two) is to enlarge the traffic roundabout by making vehicles circulate westwards along Jermyn Street behind the Criterion block. The idea of upper level pedestrian walkways has now been dropped in favour of an extension of the underground concourse (perhaps partly open to the sky) with subway connections to the buildings. Extensive redevelopment is foreseen in the area between Coventry Street and Shaftesbury Avenue, and there might be an upper-level pedestrian precinct which could be bridged across to the central space on the roundabout island. The architectural conception seems to remain roughly as in the original Advisory Scheme with the possibility of tall buildings on the south and east sides of the Circus, but the horizontal emphasis on the north side has been abandoned in favour of the tower of the present application.

The Council are therefore entitled to claim that there is a comprehensive plan and that the present proposal conforms with it, though it might appear that the evolutionary process has been mainly a modification of the Advisory Scheme to conform with the present proposal.

The objectors, however, would not accept the revised comprehensive plan as in any way satisfactory, indeed some seemed to doubt whether there was now any comprehensive scheme of substance at all. The loss of the pedestrian walkways was deplored as was the loss of a building with horizontal emphasis on the Monico site, and most objectors agreed that it was retrograde to think of sub-ground arrangements for pedestrians. Some of the objectors sought the reinstatement of the Advisory Scheme, but others favoured a bolder and more radical approach to the redevelopment of the Circus.

In assessing these points a fundamental question arises—what value should be placed on the Circus? The present is a critical



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time for the Circus. There is little of any architectural value there at present, redevelopment of the greater part is more or less imminent, and it seems open to us to make anything we desire of the place. How high we set our sights depends on the value we attach to the Circus—is it really a place of national importance justifying a big effort, or is it no more than a rather important commercial centre which, within broad limits, can be left to look after itself?

I would hesitate to offer advice on an issue of this kind were it not for one factor which seems to render it almost inevitable that the sights should be set high. I refer to the insistent problems of motor traffic which seem to be demanding radical new thinking on urban forms and arrangements, and which are likely in the end to compel drastic rearrangements whether we like it or not.

I feel far from satisfied that the Council's comprehensive scheme in its present state of evolution, or even the original Advisory Scheme, shows a sufficiently fundamental grasp of the traffic problems. For vehicular traffic all that is proposed is a roundabout. As Mr. Spencer Rodgers pointed out, this is no advance on Sir Charles Bressey's recommendation of 23 years ago. For pedestrians, although both schemes offer some insulation by subways or walkways as the case may be, the presence of ground floor shops round the Circus means that the main concentration of pedestrians will be insulated from the traffic only by a pedestrian barrier. It was stated for the Council that Piccadilly Circus would be the last place in London where they would think of abandoning shops at ground level, but I would have thought there was now enough experience available to convince anyone that ground level shops round a major traffic roundabout was not good planning.

I would not, however, wish to minimize the difficulties of dealing with urban traffic. The problems are amongst the most intractable in town planning today. I cannot attempt to propound any solution for Piccadilly Circus, but I think the aim should be to produce a civilized environment whilst exploiting the motor vehicle as far as possible without allowing it to dominate. It would not surprise me if the pursuit of this aim produced something quite new for the Circus, a new environment, a complete break from the idea of shops set behind conventional pavements.

I think the objectors in their various ways were mostly advocating radical treatment of the Circus. Mr. Moffett, for instance, developed the theme of a raised pedestrian piazza in the centre of the Circus with car parking space underneath. From the Applicants' side, on the other hand, and from those associated with it, there seemed to be a total unwillingness to accept anything fresh or novel at the Circus. First-floor shops, walkways and bridges for pedestrians, elevated concourses and the rest were all dismissed as fantastic or uneconomic or both. I found it depressing and disappointing, and was left reflecting on Professor Grace's words that few people in England yet realize the drastic measures that are going to be necessary to deal with motor traffic.

The main point I am endeavouring to make, however, is that if major rearrangements are necessary for dealing with vehicular traffic and improving conditions for pedestrians, then the opportunity should be taken to secure a brilliantly imaginative redevelopment. I think the objectors are right in saying that the Circus is a unique place wonderfully situated between the finest shops and the best theatres in a great capital city. It attracts people from the ends of the earth as it is, and if comprehensive development is to take place then it should be to a standard that really justifies a journey from the ends of the earth.

Everyone was agreed at the Inquiry that there should be a comprehensive plan, and I suggest there is no difficulty in

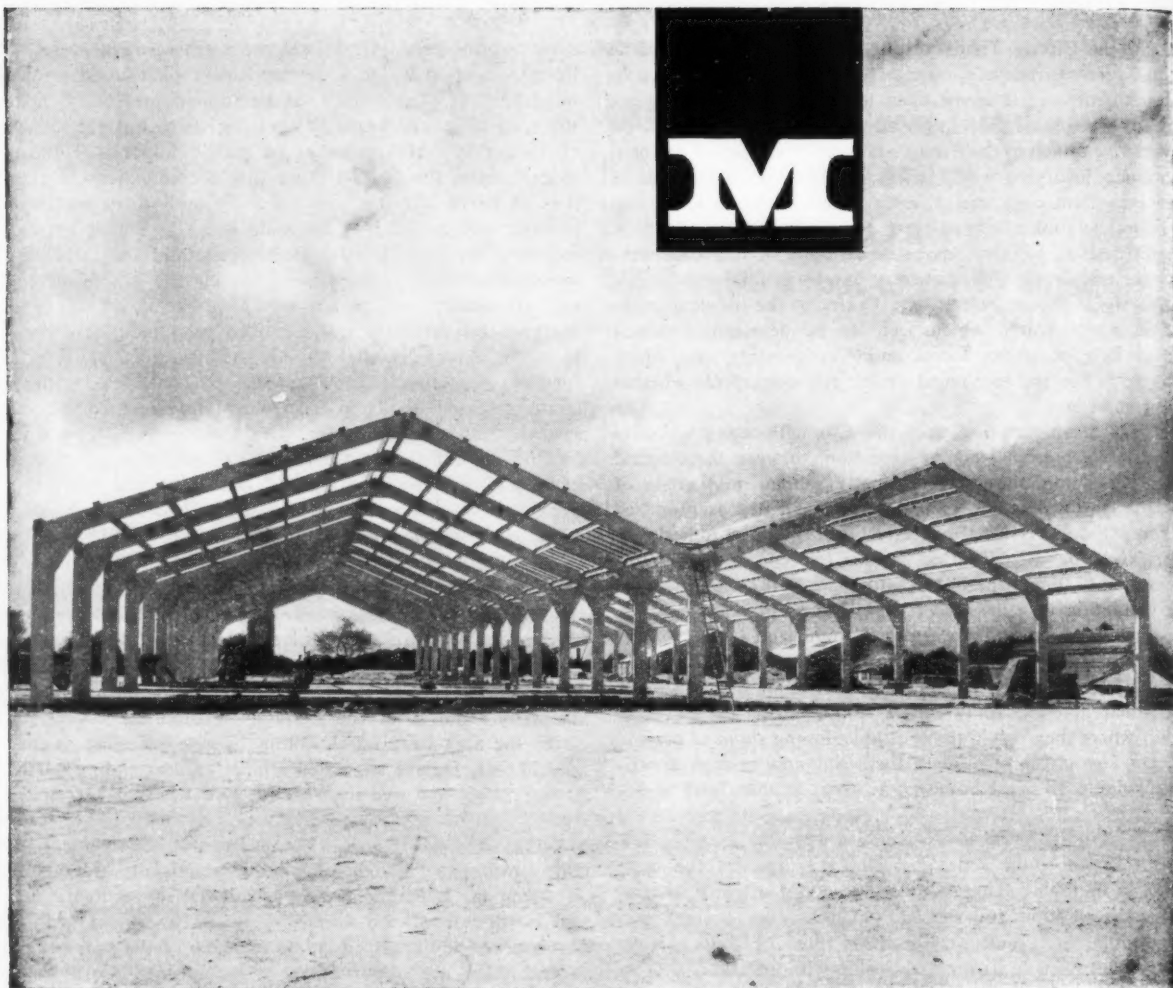
accepting the principle. There was much conflict, however, as to the extent to which a comprehensive plan could or should be definitive. The Council, as mentioned previously, held to the idea of a continuously evolving plan, but the objectors claimed that certain matters of public importance must be secured from the start. I think that a comprehensive plan, if it is to be of any use, must broadly outline the nature, disposition and quantity of the main uses, the traffic circulation including the provision for pedestrians, and the three-dimensional architectural conception including the general character and atmosphere which it is desired to achieve.

Methods for securing large-scale redevelopment were pursued to some extent by the objectors. Suggestions ranged from formal comprehensive development procedure under the Act (with increased grants to the Council) to the formation of a special trust or consortium. The Council, apart from contending that formal comprehensive development procedure had no application in a case of this kind, said that existing financial commitments in respect of other important schemes were such that no more could be incurred, but they seemed to infer that this attitude might change if more Government assistance were forthcoming. I can but record my impression that any quicker or bolder redevelopment of the Circus would, at the least, require the positive assistance of the Council at certain critical points. For example, even to regularize the Monico site requires the realignment of Denman Street and the early removal of the London Pavilion.

As to the area over which comprehensive planning might be applied, Mr. Dulake suggested a large area extending north to Brewer Street and east to Wardour Street, whilst Mr. Spencer Rodgers advocated a smaller area extending eastwards only to Great Windmill Street. This is clearly a matter for careful consideration in the light of what is practicable of execution. All I can say is that to wander about the streets to the north and north-east of the Circus is to be impressed with the obsolescence and cramped layout of much of the property, and to feel there are opportunities to be grasped which in the long run, and perhaps even in the short run, would amply repay the effort.

To summarize my comments on comprehensive development, I take it for granted that there should be a comprehensive plan but it should be a plan in which certain critical matters are firmly secured against all possibility of erosion during negotiations with developers. I cannot advise that either the Council's Advisory Scheme, or their present modification of that scheme, are soundly based on matters of traffic, particularly in the all-important matter of pedestrian movement. My own view is that more drastic treatment is necessary to deal with traffic, and in that case great scope is presented for novel and stimulating solutions. Although I think large-scale redevelopment would bring its own rewards in the long run, I would not attempt to minimize the great financial and organizational difficulties involved. Whilst the present application for the Monico site conforms to the Council's present comprehensive plan, I do not consider there is any chance of its conforming to a more radical plan, indeed I am sure it would prejudice it.

So many questions of taste and policy are involved in this case that I have considered it inadvisable to tender a formal recommendation. My comments, however, will have made my own views clear on the architectural and planning matters within my professional scope. I think I can sum these up by one question and answer. The question I have repeatedly asked myself is whether the present project, and the planning proposals with which it is associated, make the best of the opportunity which is now unfolding for Piccadilly Circus. I have not found it possible to give an affirmative answer.



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This hospital, one of a number for the Northern Ireland Hospitals Authority, is the first completely new hospital to be finished in the United Kingdom since the war. Although it was designed too early to take advantage of the Nuffield Foundation researches into the subject, it nevertheless provides a very valuable yardstick for future developments in hospital planning and organization.

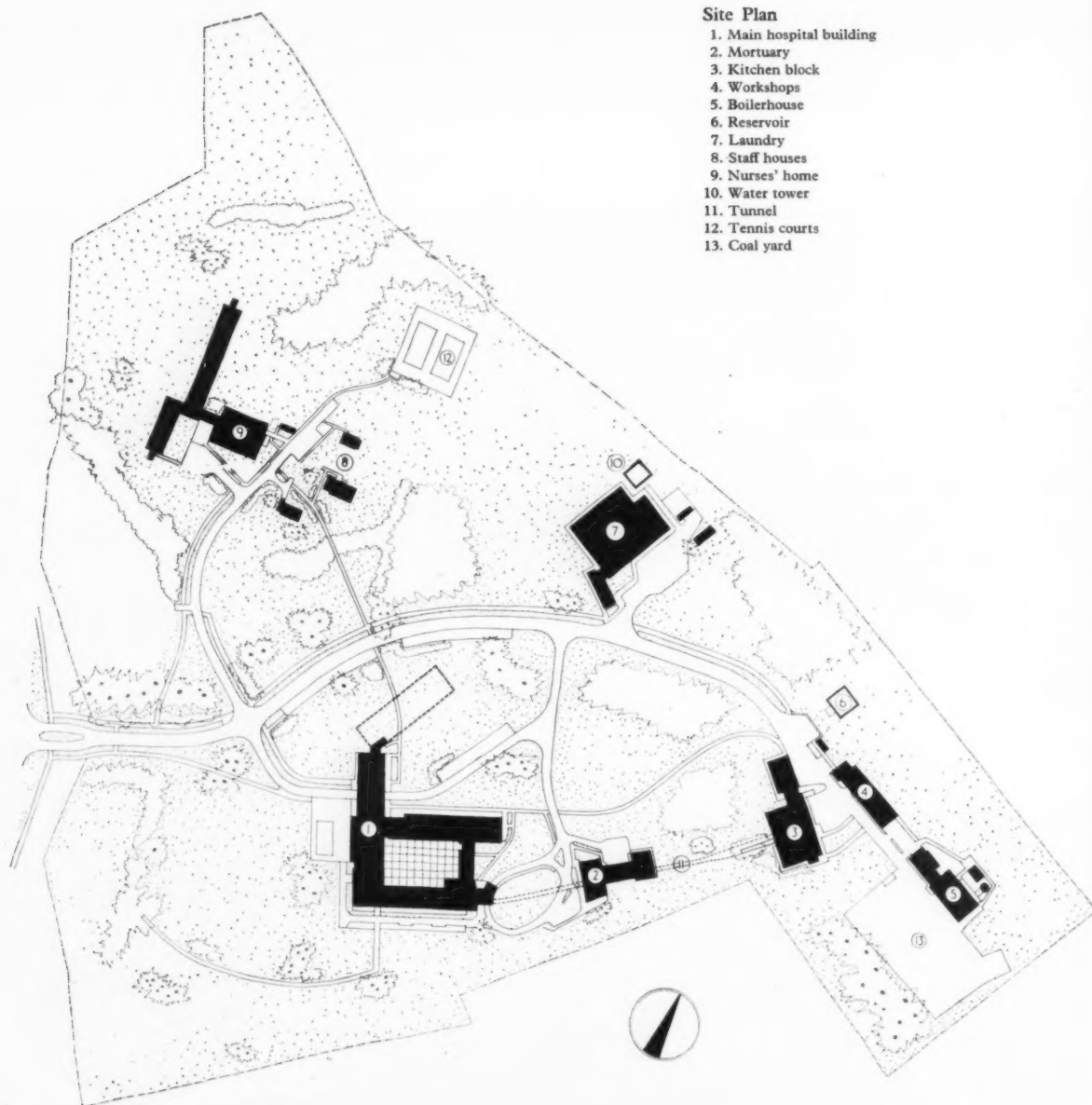
The main hospital block from the north.



building illustrated



View of the site from the south.



APPRAISAL: This is the first entirely new, complete, general hospital to emerge since the war, and the fact that it has taken a long time to finish—work on the site began in 1950—shows what a complicated business designing and building a hospital can be. Major changes in the requirements which had to be met when the building was half completed accounted for a considerable amount of time being lost. The fact that they were accommodated relatively painlessly, however, is a tribute to the architects' ingenuity and to the flexibility of the buildings.

In planning the hospital block the architects were faced with the alternative of building horizontally or vertically, and they had plenty of space on the site to build horizontally. Much of the research on single-storey hospitals was not then available, but since then it seems to have been established that the maximum size for a single-storey hospital to work satisfactorily is 300 beds. This seems to justify the judgement of the architects at Londonderry in deciding to build vertically, since the hospital now open is designed for 390 beds, and future extensions may bring the number up to 600.

Points in favour of a vertical hospital of this size are the possibility of concentrating services, which in this case run in ducts adjacent to the main columns, and the fact that departments are isolated from through traffic, with its attendant noise and risk of cross infection. Another very relevant point on this particular site is that magnificent views are obtained from the upper floors extending from Lough Foyle and Donegal to the Sperrins.

The hospital block is planned in the form of a T, the west wing of which will be added at a later date. A temporary disadvantage of the vertical design is that this addition will perform mean rather more inconvenience than an addition to a single-storey building.

The ten-storey east wing contains wards above the casualty floor and the north wing the theatres, maternity department, X-ray, physiotherapy and administration. Parts of this wing are mechanically ventilated.

The only single-storey portion of the hospital is the out-patients department, which links the north and east wings and encloses a paved courtyard. This will allow future extension or rearrangement to be carried out without being affected by the structure of the main block.

Ambulances discharge patients beneath a canopy outside the casualty entrance, the patient being treated immediately, or taken by lift to a theatre or ward on the upper floors.

The architects considered that the highly centralised and compact building containing the wards, diagnostic and treatment facilities, administration offices and out-patients departments should be entirely separated from the ancillary buildings on the site, e.g. kitchens, stores, workshops, laundry, and so on. This arrangement is excellent from the point of view of isolating the hospital from noise, traffic, dirt and smells, but it does mean that communication between the kitchen and the wards, for instance, is a little remote and involves trains of food trolleys being taken from the kitchen via a tunnel to the lifts serving the ward kitchens, and then being sent up one by one to each floor.

The success of any hospital design must be judged by whether it is easy and economical to run: easy from the point of view of staffing and administration, and economical both as regards maintenance costs and in the time and energy of the

staff. So far as can be judged at this early stage, the vertical arrangement of this hospital is good from the administrative point of view, maintenance costs should be reasonable, and time spent waiting for lifts is not likely to be grudged by the staff, if they have been accustomed to the long corridors of older and more-dispersed hospitals.

Since this hospital is intended for acute cases, patients are not encouraged to go outside the building, so the wards lose little by not being at or near ground level. However, the size of the building is a little overpowering from the ground, and the arbitrary breaks in the plan form of the end staircases, coupled with the variety of finishes, tend to obscure the clarity of structure that a building of this size should possess. This may be disturbing to a patient seeing the hospital for the first time and largely unaware of the nature of the place to which he has been brought: but once inside the building he will be impressed with the clear, bright colours of walls and fabrics and the very neat and workman-like way in which the interiors have been detailed. The effect of a stay in hospital on patients' awareness of design and colour can only be guessed at—and in most hospitals today could only be deplorable—but those who come to Londonderry will be dull indeed if it does not make some impact.

Approaching the site from the north-west, the bulk of the main building and the staff hostels are at present screened from the road by a belt of existing trees. From the entrance to the site the main building is to the south of a spine service road and is approached by a loop road which runs underneath the treatment wing and gives immediate under-cover access to the main entrance. A right turn off this loop road provides access for ambulances to the casualty department, and further on to the mortuary, which are out of sight of the wards and out-patients departments.

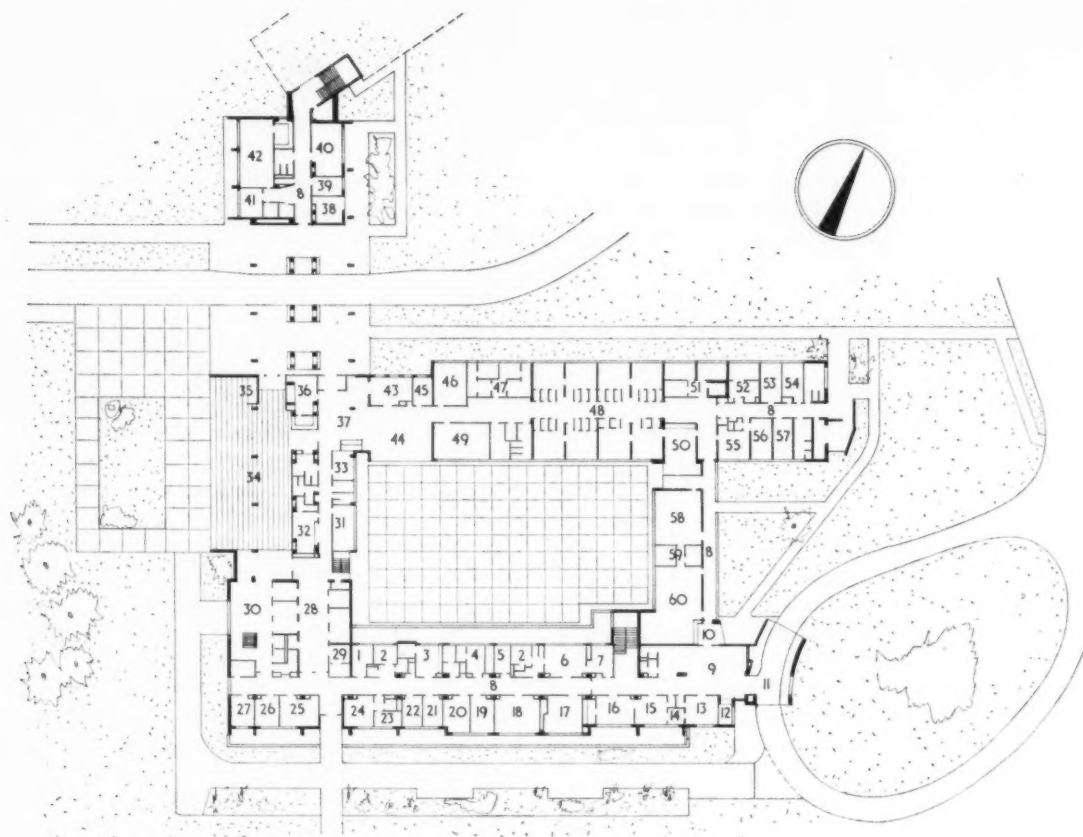
To the north of the spine road are the nurses' hostel building and staff houses, which include a doctors' hostel, engineer's house and a single-storey house for the matron. Separated from this residential group by a belt of trees is the laundry building and farther on are the workshops and boiler house, on the opposite side of the spine road from the kitchen and stores building, which are linked to the main building by a tunnel passing under the mortuary and calorifier building.

Entering the hospital, a spacious entrance and waiting hall occupy the larger part of the ground floor beneath the therapy wing. This area is extremely well handled, being fully glazed on the west side, with the main columns exposed and finished in white vitreous mosaic. Walls are finished in pine boarding and floors and window seats are in white terrazzo. The lift hall opens from this space, lifts being double ended, one for hospital circulation and the other for visitors, for whom waiting spaces are provided at each floor, so that they are segregated from hospital traffic until they reach the ward they are visiting. At present only three of the six lifts are installed, these being fast lifts with triplex control.

The wards, which occupy ten floors of the east wing, are all identical, with the exception of the maternity and children's wards.

Each unit consists of one six-bed ward, five four-bed wards and five single rooms. Ward walls generally are solid throughout, though the corridors are well lit, having a full height

building illustrated

Main hospital building: ground floor plan. [Scale: $\frac{1}{80}'' = 1' 0''$]

- | | | | |
|-----------------------------|------------------------------|------------------------|----------------------------|
| 1. Doctor's bed sittingroom | 16. X-ray | 31. Telephone exchange | 46. Doctor's room |
| 2. Patients' bath | 17. Minor operations | 32. Cloakroom | 47. Eyes |
| 3. Kitchen | 18. 4-bed ward | 33. Transport control | 48. Examination |
| 4. Clean Utility | 19. 2-bed ward | 34. Entrance hall | 49. Demonstration room |
| 5. Dirty Utility | 20. 2-bed ward | 35. Tea bar | 50. Plaster room |
| 6. Admission | 21. 1-bed ward | 36. Mail room | 51. E.N.T. |
| 7. Clerks | 22. Doctor's bedroom | 37. Hall | 52. Nurses' workroom |
| 8. Corridors | 23. Doctor's sittingroom | 38. Plant room | 53. Nurses |
| 9. Casualty entrance | 24. Doctor's bed sittingroom | 39. Staff room | 54. Storage |
| 10. Walking casualties | 25. Matron | 40. Classroom | 55. Dental |
| 11. Ambulance entrance | 26. Assistant matron | 41. Library | 56. Dental mechanic |
| 12. Porters | 27. Almoner | 42. Demonstration room | 57. Hearing aids |
| 13. Examination 1 | 28. Lift lobby | 43. Mass radiography | 58. General office |
| 14. Testing | 29. Goods lift lobby | 44. Waiting | 59. Records and microfilms |
| 15. Examination 2 | 30. Visitors' waiting room | 45. Almoner | 60. Records office |

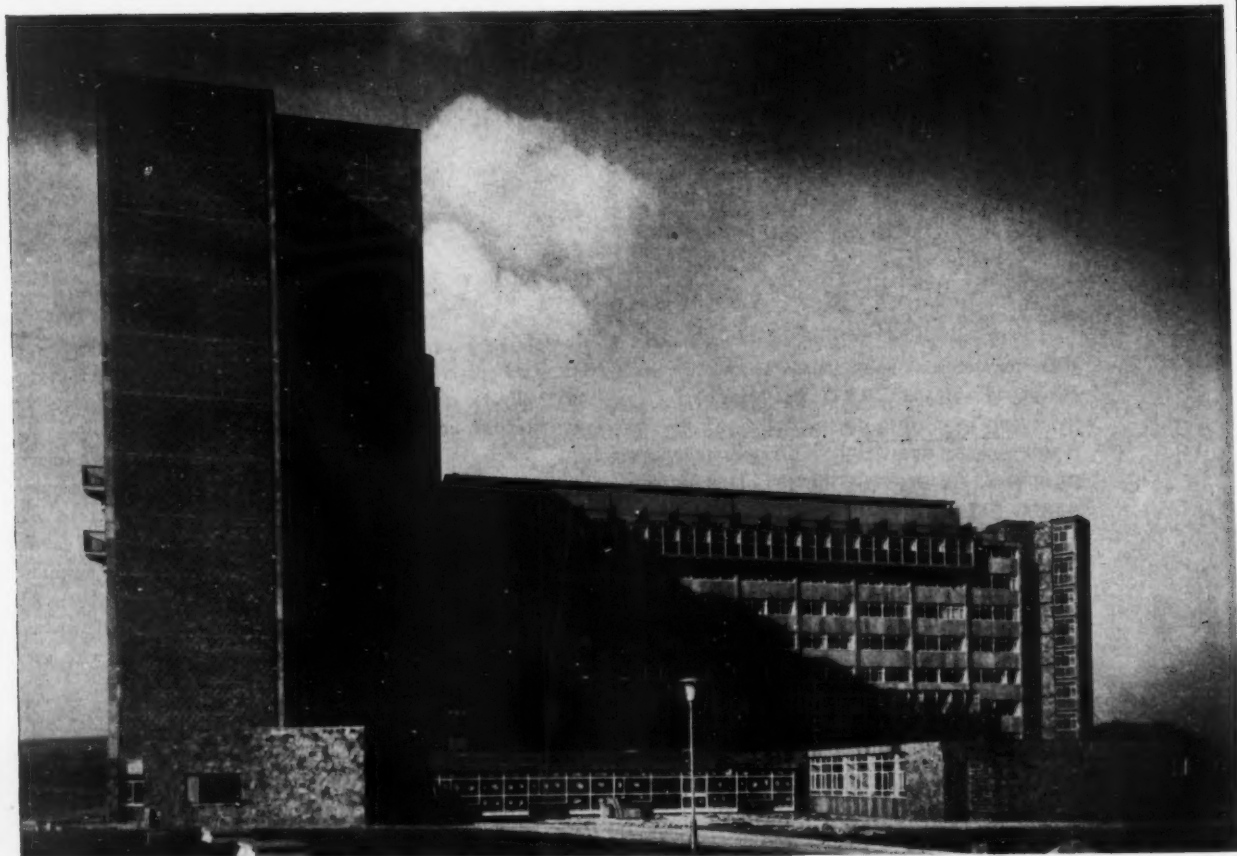
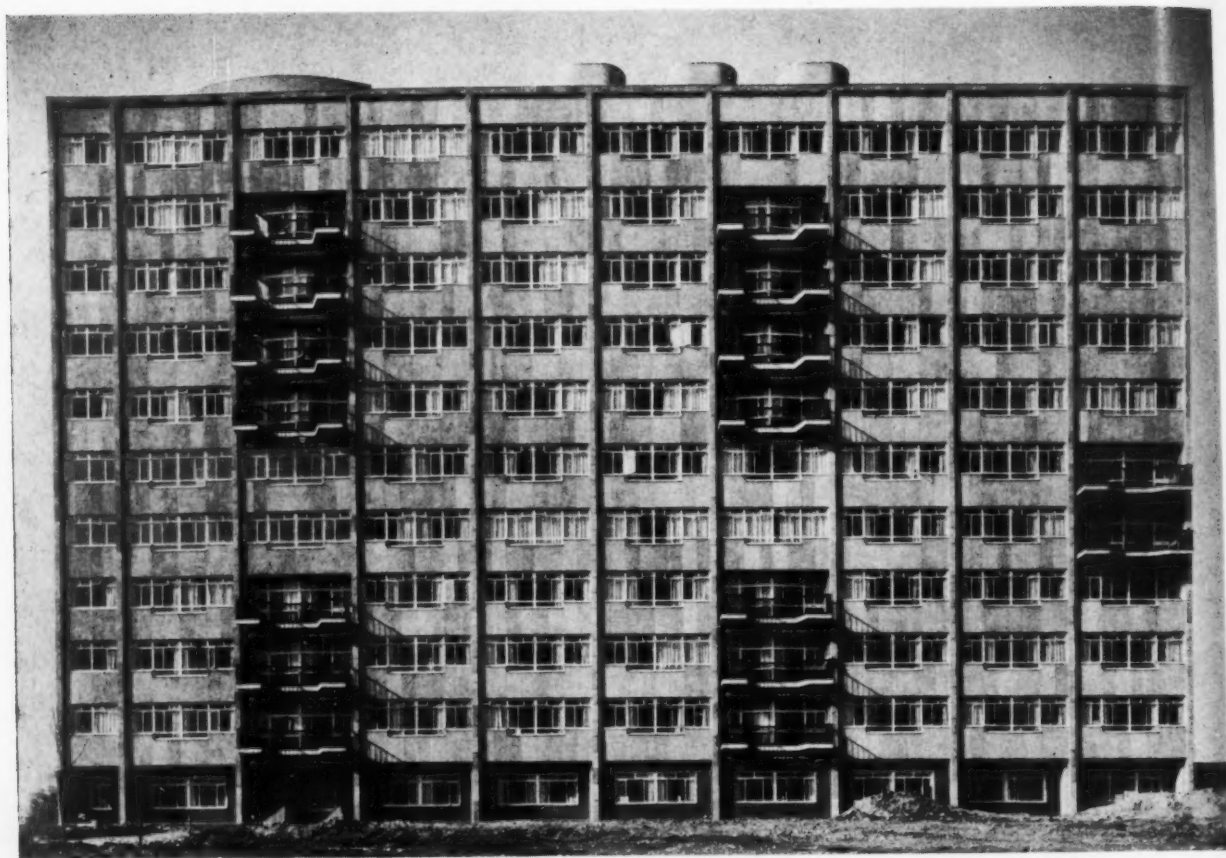
window at each end. The children's ward, however, has glazed partitioning, giving an extremely pleasant and open appearance. A continuous hardwood buffer rail runs at dado height in corridors, to protect these walls against damage by trolleys, and considerable attention has been paid to details such as patients' lockers, cupboards and sanitary fittings. The standard sink, cupboard and splash-back unit used in all wards is particularly well handled and w.c.s throughout are corbel type, with all service pipes and wastes being in the adjacent duct. This, in addition to the provision of flush valves, has a very clean appearance and should be easy to keep clean. Corridor ceilings to the wards are of fibre board panels on timber framing, each being hinged and giving immediate access to the service pipes above.

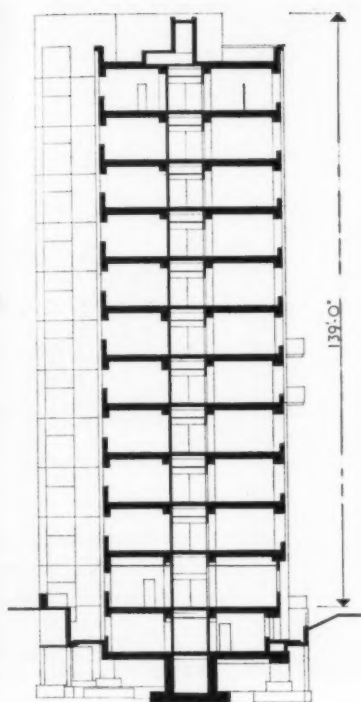
The theatres are situated on the top full-width floor of the treatment wing, with the ventilating plant occupying some of

the space immediately above. This arrangement has the advantage of allowing clerestory lighting to the theatre and a double corridor access system whereby one corridor is reserved for staff, serving the dressing rooms, sterilizing rooms, scrub-ups, etc., and the other for patients entering or leaving the theatre via the anaesthetic or recovery rooms. The patients' corridor is fully glazed, giving pleasant distant views and is extremely reassuring.

All the hospital's sterilizing (with the exception of theatre instruments) is carried out in the Central Sterile Supply Department, which is immediately below the theatres. Each day wards, clinics and theatres are issued with the necessary number of sterile packs, containing bowls, dressings, etc., sufficient for the day's needs. A stock of ready-sterilized packs is also held for emergency use. After use, linen is sent to the laundry for washing and bowls, etc., to the C.S.S.D., after which they are again assembled into

building illustrated



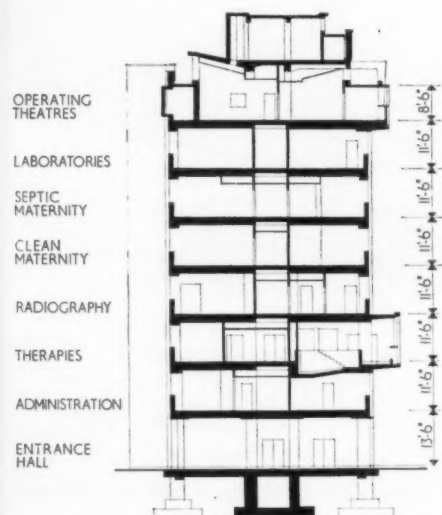


Section through the ward wing

Opposite, top: the ward wing from the south-east.

Opposite, bottom: the hospital from the east, showing the ward wing on the left and the treatment wing on the right. The single-storey building in the foreground houses out-patient clinics and records department.

Section through the treatment wing



simple and economical one, affording good views from all rooms. A uniform yellowish coloured brick has been used in conjunction with ribbed, natural-coloured asbestos cement sheeting and random local stone on the outside. Windows are mainly wood, painted white.

Student nurses' bed-sitting rooms are simply and compactly planned in the small amount of space allowed: by comparison, the sisters' rooms seem to have been somewhat difficult to furnish satisfactorily. Heating in this building is by radiators.

An assembly hall adjoins the entrance to the hostel and this can be used for dances and stage performances.

The same facing brick is used on the staff houses and doctors' hostel as on the nurses' hostel, but vertical cedar boarding is used in place of the asbestos cement sheeting.

Colour is used internally in the hostels with discretion and imagination, and the staff are appreciative of the free hand the architects were given in choosing colours, fabrics and furniture throughout the scheme.

The laundry is located on the leeward side and away from other buildings, but close to the spine service road, where noise and smell cause least disturbance. Although it was not intended originally to include the central linen department, it is now combined with the laundry in one space, 120 ft. square beneath a monitor type shell concrete roof of butterfly sections, facing approximately north and south. Ancillary rooms for staff, storage and plant are housed in low wings, attached to the main working area. Several local hospitals are served by this laundry as well as the main one, and about 45,000 articles can be handled each week.

Located at the far end of the tunnel from the main building are the kitchen and store house, with the kitchen on the upper floor and the stores below. The stores thus give direct access for vehicles from the service yard, and the kitchen has the benefit of good overhead lighting and ventilation. The tunnel is split close to the building, one side-sloping up to the kitchen and the other down to the stores.

The kitchen deserves special mention, as a great deal of trouble has obviously been taken with the layout and selection of equipment and fittings, and also with finishes and colour. The result is a most pleasant and airy space to work in.

In a slight valley at the far end of the service road are the workshops, boiler house and fuel yard. Solid fuel is used, and is fed to the boilers by a conveyer going under the road from a hopper in the fuel yard and then up to hoppers above the boilers in the neatly laid out boiler house. A belt of trees will effectively screen the boiler house and fuel yard from the hospital, but even before they have attained any size the siting of the service zone is such that it is difficult to see from the hospital, and being located to leeward any nuisance from smoke or dust should be minimized. An extensive scheme of planting has been begun and when completed and grown to maturity should provide a very fine setting for the various buildings, which without something to bind them together in this way do have a somewhat arbitrary relation to one another. The planting planned close round the main building—for instance, in the centre court enclosed by the outpatients' department—will help considerably to overcome the rather bare and hard forms evident at present.

building illustrated



An 8-ft.-high bronze statue by E. F. McWilliam outside the main entrance. The figure represents the legendary Princess Macha, reputed founder of the first Irish hospital.



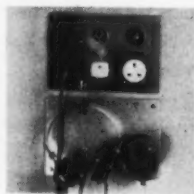
The main entrance hall, light, bright, white and spacious, with white vitreous mosaic-faced columns and terrazzo window seats.



A children's ward, curtains not yet fixed.



The male surgical ward.



Left: detail of bed-head fitting, containing 2-channel radio switch and headphones, nurse call "pillow phone" and socket outlet for equipment.

CLIENTS REQUIREMENTS

An acute general hospital to be built in two stages, and to include maternity department, together with an area laundry, nurses' home and staff houses, garages, workshops and stores, kitchen and boiler house.

SITE

A 50-acre site on high ground outside the city of Londonderry with fine views over open country to the south-east. A central spine road curves away from the main road bringing all heavy traffic behind the main building.

PLANNING AIMS

1. The separation of ward and treatment areas.
2. Avoidance of noise and smells from main kitchen, stores, boilers, etc. and suppression of noise, within the buildings.
3. Simple circulation of different categories of internal and external traffic. Branch roads serve the main building, nurses' home, ambulance entrance and mortuary, and the group of service buildings, boiler house, kitchen, garages, workshops and laundry, mostly at lower level, which will be screened from the rest of the site when the planting programme has matured. Advantage has been taken of falls in the ground and none of these buildings, nor the mortuary, are visible from the ward wing.
4. Ward and treatment block and out patients' wing are linked with the kitchen and stores and service buildings by a service corridor, largely below ground level, which is approximately 8 ft. square in section and is also used for the distribution of all the principal services and pipework from the boiler house.

SPECIFICATIONS

Note: In the following specifications, the various hospital buildings are grouped as follows:—

1. The main hospital block, containing ward wing, treatment wing and out patients' department.
2. Service blocks: laundry, offices and water tower; kitchen, stores, and garages; workshops; boilerhouse.
3. Staff accommodation, nurses' home, doctors' and matron's houses.

The main hospital block

Work below lowest floor finish

Asphalt tanking.

Services tunnel under basement of ward and treatment wings. Duct under out patients' department.

STRUCTURAL ELEMENTS

Frame

R.c. structure 22 ft. c.c.s. Hollow pot floors incorporating beam thickness where possible and ceiling heating panels to give flush soffit.

Upper floors

R.c. balconies to most single-bed wards and to maternity dayrooms, with cast iron railings.

Roof

1-in. cork insulation.

Screeds and 3-layer roofing felt.

Macadam finish for areas that are walked on. White chip finish elsewhere.

Rooflights

Glass domelights over out patients' and staff corridor on 7th floor of treatment wing.

Staircases

R.c. stairs with terrazzo precast treads and *in situ* risers. Balustrades of steel and glass.

Minor staircases in grano.

External walls

Steel windows, aluminium sills.

Precast concrete facing slabs with exposed aggregate (local materials), with cavity wall backing.

Generally, plaster finish internally with precast terrazzo or hardwood sills. Some mosaic finishes to balconies.

Stone walls to parts of the buildings, and facing bricks.

Limited areas of coloured glass panels at staircases to the therapy and operating floor, projection.

Windows

Metal windows of rust-proofed steel, side and top hung.

Timber sub-frames.

Glazing weights are increased above 8th floor level, to withstand wind pressures.

External doors

Generally, timber, glazed.

Partitions

4½-in. brick.

6-in. concrete block between wards.

Plastered or tiled.

Concrete lintels.

Internal doors

1½-in. skeleton-framed flush doors.

Softwood subframe and hardwood linings.

Stops and architraves.

Ironmongery

Generally nickel silver.

FINISHES

Wall finishes

Plaster and paint.

Tiles.

Floor finishes

Linoleum, p.v.c., terrazzo, tessellated tiles, semi-vitreous tiles, hardwood strip and block, carpet.

Ceiling finishes

Generally, plaster.

Insulation board in corridors.

Travertine tiles in main entrance hall.

Decorations

Tile mural in hydrotherapy swimming pool.

Mosaic to balconies, columns in entrance hall and at roadway.

Mural in entrance hall.

SERVICES

Hot water services

Calorifiers for hot water and heating services with their controls in a separate room in the mortuary block.

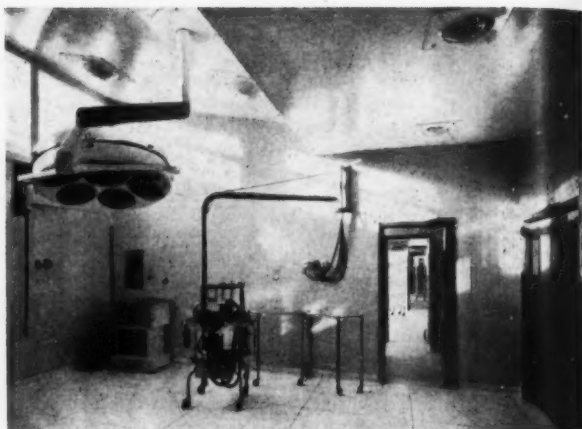
Heating services

Embedded heating panels throughout, except in corridors which have warmed air through insulated ducts.

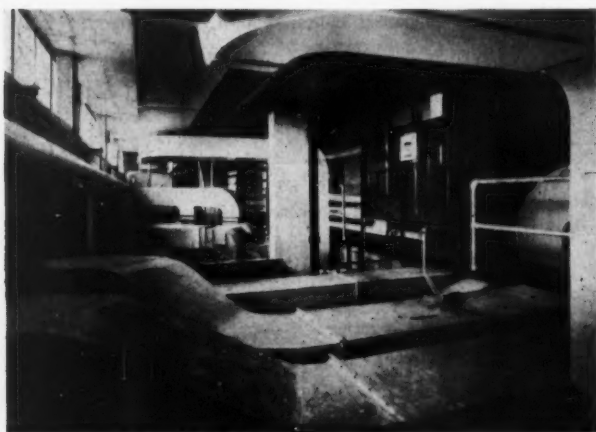
building illustrated



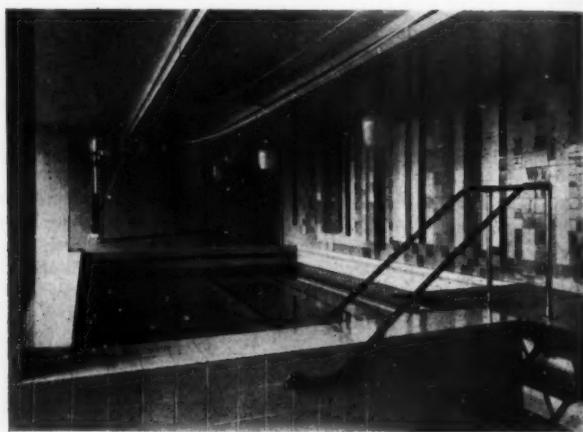
An X-ray room. The patterned floor was designed as a guide to help patients and staff moving about in the room when it is darkened.



One of the operating theatres. It is internal with clerestory lighting. The cantilevered arm supplies piped gases to the anaesthetic trolley.



Part of the plant room, which occupies an entire floor above the theatres.



The hydrotherapy pool, the rear wall of which is decorated with a tiled mural by Paul Feiler.



The central sterile supply department: dressing packs are being made up prior to sterilization.



The staff dining room. The furniture was chosen by the architects.



Left: a neatly detailed surgeon's basin and cupboard, one of which occurs in each ward.

Ventilation

Air conditioning to theatres, nurseries, etc. where necessary.
Extract ventilation to internal lavatories, etc.

Gas services

Only bottled gas for special purposes, e.g. laboratories, hearing aid and dental departments.

Electrical services

Generally in conduit. Pyrotenax in laundry.
Sub-station for this block in basement, supplied from main intake sub-station in laundry block.
Bus-bar risers in three positions throughout main block.
Separate switch room for out-patients' department.

Special services

Medical gas supplies (piped) from basement room.
Ward call system.
Magnetic loop staff locator system
Electric clocks.
Piped CO₂ for transformers.
Dry risers. Hose reels.
Lifts, generally 300 ft. per min.
Small sterile lift from 2nd to 7th floor of treatment wing.
Food lift from basement to ward kitchens only.
Goods lift.
Three passenger and bed lifts.

External works

Areas adjacent to building sown with fine grass. Paved area in front of main entrance. Large blocks of trees planted, mixed hard and softwoods, with small areas of shrubs and dwarf plants.

Service Blocks**Work below lowest floor finish**

Pipe tunnel from boiler house to workshop, to kitchen and to main building.
R.c. with asphalt tanking.

STRUCTURAL ELEMENTS**Frame**

R.c. frames in kitchen, etc., boiler house, laundry and garage.
Laundry roof, butterfly section shell bays, 50 ft. x 40 ft.
Workshop, castellated steel beams with strawboard and steel stanchions.
Water tower, R.S.J. framework, patent glazing around tank and strawboard roof.
Other roofs, flat r.c. slabs.
The kitchen has monitors in structural steel, and patent glazing, over main cooking areas.
Roofs have 1-in. insulation, three layers of roofing felt with white spar finish.

Rooflights

Glass domelights in laundry ancillaries and kitchen, 1st floor lavatories and pump room.

Staircases

R.c. with grano finish.
Boiler house, steel stairs.
Balustrades, steel.

External walls

Coloured concrete brick.
Precast cladding slabs with exposed aggregate.
Patent glazing in workshops above sill level.
Temporary end of boiler house, asbestos sheet until future

extension is built.

R.c. lintels. Aluminium sills.

Windows

Steel windows, rust-proofed, with built-in aluminium sills externally.

External doors

Laundry and boiler house, metal doors by window sub-contractor.
Kitchen, garage and workshops, framed, ledged and braced softwood.
Frames, mainly softwood. Switchrooms, transformer room and pump room, hardboard.

Partitions

4½-in. brickwork plastered or tiled in kitchen.
Elsewhere generally fair-faced pressed concrete bricks, painted.

Internal doors

1½ skeleton framed flush doors.
Door frames to stores, etc., metal.
Elsewhere, softwood.

Ironmongery

Generally B.M.A.

FINISHES**Wall finishes**

Generally fair-faced brickwork, painted. Otherwise plaster and paint or tiling.

Floor finishes

Grano, tessellated tiles and thermoplastic tiles.

Ceiling finishes

Plaster and paint or paint on fair-faced concrete.
Medium hardboard in stores area.

SERVICES**Heating services**

Three boilers with an output of 15,000 lb./hr. each.

Ventilation services

Heated inlet to kitchen cooking area. Extract to kitchen.
Unit heaters in workshops and laundry reception and despatch bay and garage.
Radiators in kitchen and laundry administration.

Gas services

None.

Electrical services

Sub-station with transformers, H.T. and L.T. switchgear and diesel electric generator for essential services in case of failure of normal supply.
Distribution mainly in conduit. Some M.I.C.S. in boiler house area.

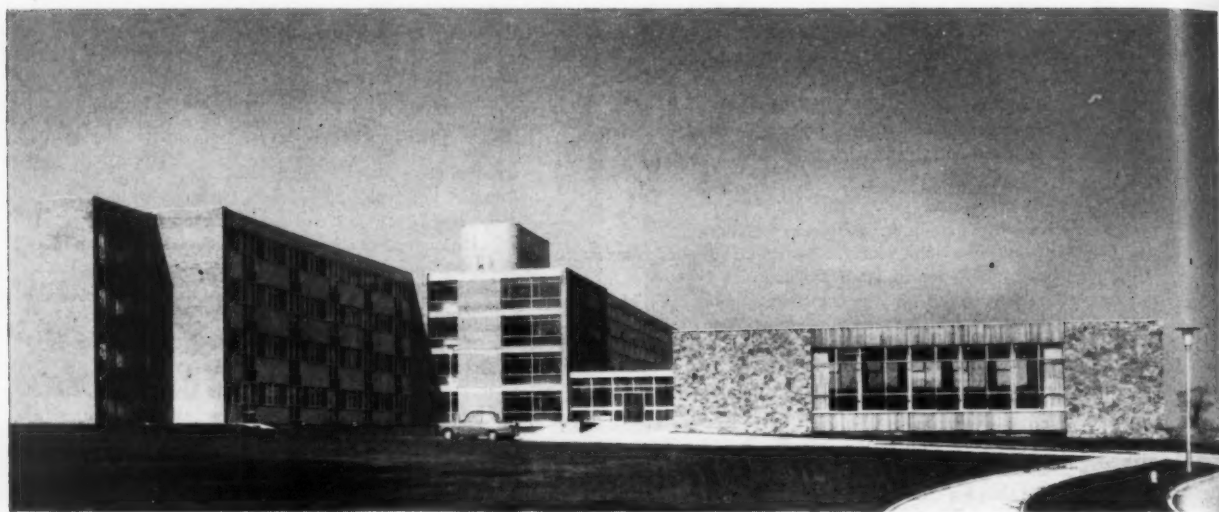
Special services

Oil-fired incinerator with catalytic smoke eliminator, in separate building, for disposal of hospital waste.
Lift in kitchen.
Clocks, fire alarm system, hose reels, internal and G.P.O. telephones.

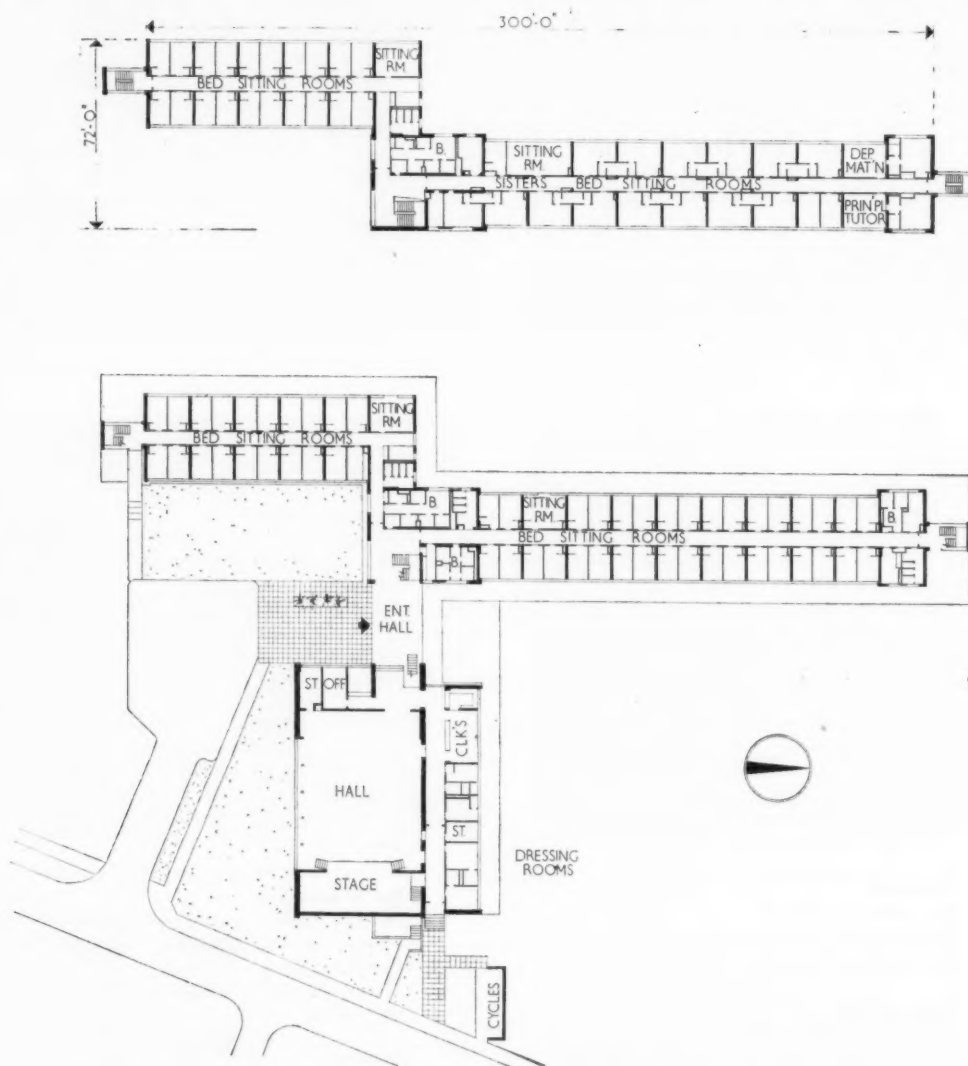
Drainage

Sewage ejector in this area handles all soil drainage and discharges into main drainage system.

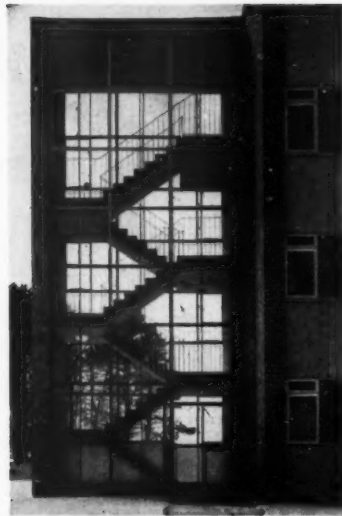
building illustrated



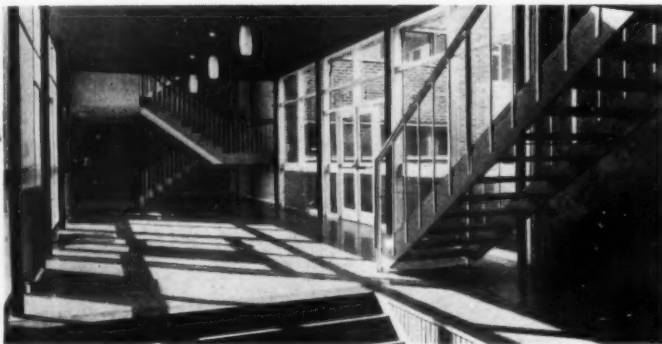
The nurses' home, with glazed link corridor to assembly hall on the right. The bricks are yellow-grey in colour, and spandrel panels are of grey ribbed asbestos.



Typical upper and ground floor plans of nurses' home. [Scale: $\frac{1}{8}$ " = 1' 0"]



Fire escape stairs are placed at each end of the hostel block.



The entrance hall of the nurses' home. The stairs to the right lead to the balcony of the assembly hall.



A typical bed-sittingroom in the nurses' hostel, small, simple and compact. The nurses' home is said by the staff to be comfortable and warm and well insulated for sound. The radiator in each bedroom is adjustable separately.



The nurses' dining room entrance. Ceiling access panels are shown clearly.

Staff Accommodation

Work below lowest floor finish

Pipe duct under building in waterproof concrete.

STRUCTURAL ELEMENTS

9-in. load bearing cross walls with concrete slab in nurses' home.

Structural steel frame for hall.

Conventional construction for engineer's house, doctors' hostel and matron's bungalow.

Roof

Flat roof r.c. slab, 1-in. cork screed and three layers of roofing felt. White chipping finish.

Timber trusses with interlocking concrete tiles for houses.

Rooflights

Glass domelights.

Staircases

R.c. stairs with grano finish for escape staircases.

R.c. with terrazzo for main staircase.

Timber elsewhere.

External walls

Coloured concrete bricks at end staircases, central lavatory block, and for houses.

Main staff access, 6-in. block wall with fluted asbestos on building paper backing.

Hall, stonework and cedar boarding.

Upper floor of engineer's house and doctors' hostel, 6-in. block wall with cedar boarding on building paper backing.

Windows

Timber frames.

External doors

Timber glazed and metal doors on escape staircases.

Internal structural walls

9-in. structural brickwork.

Partitions

4½-in. brickwork.

Internal doors

1½ flush doors.

Ironmongery and Aluminium

B.M.A.

FINISHES

Wall finishes

Plaster and paint.

Wallpaper.

Floor finishes

Linoleum.

Cork tiles.

Hardwood strip.

Thermoplastic tiles.

Ceiling finishes

Generally plaster. Some pine boarding in hall.

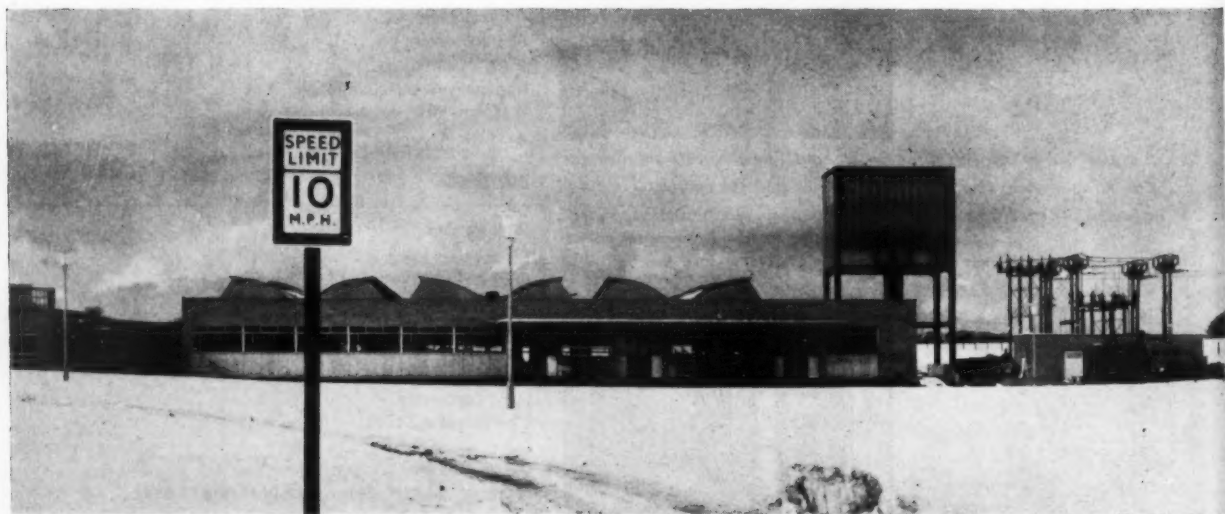
Fittings

Built-in wardrobes in nurses' rooms and houses. Built-in drawers in sisters' rooms, etc.

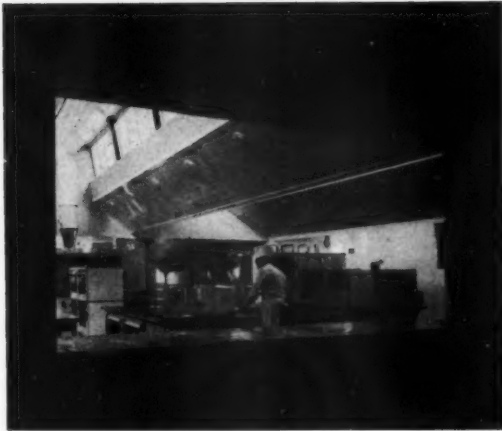
building illustrated



Ground and first floor plans of kitchen block. [Scale: $\frac{1}{8}" = 1' 0"$]



The laundry block, with staff rooms occupying the left wing, and water tower on the right. The central working area is lit by north- and south-facing butterfly roofs.



SERVICES

Hot water services

This section has its own calorifier room for heating and hot water services.

Heating services

Radiators throughout, except in engineer's house.

Electrical services

Own sub-station transformer. H.T. and L.T. switchgear. Distribution in conduit.

Special services

Lift in nurses' hostel.

Clocks.

Internal and G.P.O. telephones.

Above left: the kitchen from the food service counter. Here meals are loaded into the heated food trolleys in which main meals are taken to the wards. The monitor type rooflighting and the perforated metal ceiling panels which allow air to pass through into the intake and extract ductwork behind, are also shown.

Left: interior view of the kitchen.

NOTE: The following brief cost analysis gives only the cost per square foot for each group of elements in each of the buildings included in the complex making up the Londonderry Hospital, and is all the cost information that could be provided.

The scheme was divided into five contracts, placed between March 1951 and May 1955, and the analysis has been based on these contract amounts, adjusted to be correct as at April 1960.

There have been considerable variations, which are not adjusted in the following analysis, but the effect of these was to produce an over-all saving.

The headings given below include the following:—

Structure: reinforced concrete foundations, frame, floor and roof construction, roof coverings, rooflights, external walls and cladding, windows, external doors, internal walls

and partitions, internal doors, ironmongery, staircases.

Finishes: wall, floor and ceiling finishes, false ceilings and decorations.

Services: Heating, hot and cold water and ventilation installation, sanitary engineering and fittings, fire prevention services and lift installation.

Fittings and equipment, including special equipment: built-in furniture, kitchen and laboratory equipment, blinds, dark room equipment, electric light fittings and clocks, skalytic fittings, sterilizing equipment, sterile water and medical gas supplies.

The rates for the buildings exclude the cost of external works for which a separate rate is given. As the buildings are dispersed over a site originally intended for a larger hospital the cost of the external works is unusually high.

Building

Cost per square foot as at April 1960

	Structure	Finishes	Services	Fittings and Equipment etc.	Total
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
Treatment and ward wings	2 11 0	14 6	2 2 9	12 9	6 1 0
Laundry with offices and water tower	2 7 0	8 0	2 1 3	1 15 3	6 11 6
Out-patients	3 1 6	13 0	1 12 6	11 0	5 18 0
Mortuary	2 19 0	11 3	2 4 3	10 6	6 5 0
Kitchen, stores and garages	1 15 9	10 0	1 16 0	1 0 3	5 2 0
Boiler house	4 8 9	6 0	11 12 9	1 6	16 9 0
Workshops	2 3 9	5 9	16 0	2 0	3 7 6
Staff accommodation	1 17 0	12 3	1 13 0	4 0	4 6 3
Average for all buildings	2 9 0	13 0	2 4 9	12 9	5 19 6
External works					1 6 3
Total for whole project	2 9 0	13 0	2 4 9	12 9	7 5 9

building illustrated

CONTRACTORS

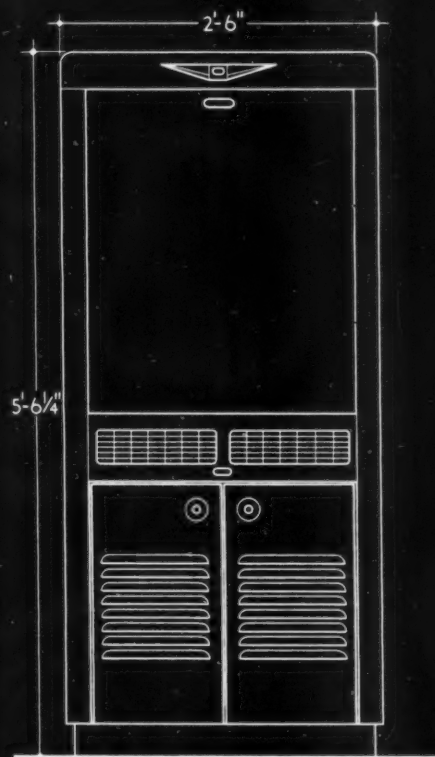
General contractors: Contracts 1, 2, 3, 5: Robert Colhoun Ltd. Contract 4: Stewart & Partners. *Sub-contractors and suppliers:* *Painting and Glazing:* F. Carey. *Paint:* Screeton Paintmaker Ltd. S. Courtney Ltd. Lewis Berger & Co. Scottish Paints Ltd. *Glass:* W. F. Clokey & Co. Ltd. Campbell Bros. Plyglass Ltd. *Plastering:* McCauley Bros. *Thermoplastic and p.v.c. flooring:* Limmer & Trinidad. *Granolithic floors:* Plastona Ltd. McCauley Bros. *Cubicle curtain track:* Silent Gliss Ltd. *Structural steel:* Musgrave Ltd. Smyth Mills Ltd. *Roller shutters:* James Anderson Ltd. G. Brady & Co. Ltd. *Travertine ceiling:* Robert Kirk Ltd. Armstrong Cork Co. Ltd. *Furniture:* Lord Roberts Workshops, Hille. Lees Hyman & Lees. *Major X-ray equipment:* A. E. Dean & Co. Ltd. Sierrex Ltd. Watson & Sons Ltd. *X-ray cassette hatches:* Electronic & X-ray Applications Ltd. *Steel door frames:* F. Braby & Co. Ltd. *Domelights:* T. & W. Ide Ltd. Pearce & Cutler. *Roofing* (Contract 5): P. McGowan Ltd. *Handrails* (Contract 5): B.M.C. Metal Products. *Bricks:* Coalisland Brick Co. Kil-lough Brick Co. Ltd. *Lifts* (Contract 5): Adair Bros. Ltd. *Tennis courts:* En Tout Cas Co. Ltd. *Cold rooms:* Pressed Steel Co. Ltd. Frigidaire Ltd. Chas. V. Hill. *Kitchen equipment:* Calomax Ltd. Jackson Boilers Ltd. Falkirk Iron Co. Hobart Manufacturing Co. Ltd. *Hose reels and fire extinguishers:* George Angus & Co. Ltd. *Internal telephones and fire alarm system:* Standard Telephones & Cables Ltd. *Ward calling system:* Hadley Telephone & Sound Systems Ltd. *CO₂ installation:* The Pyrene Co. Ltd. *Bed pan washers:* Summerling & Co. Ltd. *Theatre lights:* Ulster X-ray Ltd. *Theatre control panels and lights:* Technical Lights & Equipments Ltd. *Stage curtains* (Contract 5): Hall & Dixon Ltd. *Landscaping:* Abraham & Walker Ltd. *Trees:* Ministry of Agriculture, Northern Ireland. *Hydrotherapy fittings:* Cullen Crane Manufacturing Co. Ltd. Gabriel & Co. Ltd. *Sign-posting:* Drakard & Humble Ltd. Butler Jones (Nameplates) Ltd. *Sanitary fittings:* Stevenson & Turner Ltd. *Window controls:* Arens Controls Ltd. *Venetian blinds:* James Anderson Ltd. *Laundry equipment:* D. & J. Tullis Ltd. Dexion Ltd. British Laundry Machine Co. Ltd. Lister Bros. Ltd. Cherry Tree Machine Co. Ltd. Jaxone (Hillington) Ltd. *Disinfectant:* Manlove Allcott & Co. Ltd. *Steel door frames:* Frederick Braby & Co. Ltd. *Insulation:* Kitsons Insulations Ltd. *Painting and glazing:* John Thompson & Sons. *Plastering:* T. Doherty *Petrol tank and pumps:* Holmes, Mullin & Dunn. *Tiling:* John McNeill Ltd. *Incinerator:* Gibbons Askam Ltd. *Sub-Contractors and Suppliers. Contracts 3, 4 and 5:* *Laundry equipment:* Automatic Controls Ltd., London. *Expansion joint:* Powerflex Ltd. *Hydrotherapy pool plant and water treatment plant:* Becco Engineering & Chemical Co. Ltd., London. *Compressors:* Broom & Wade Ltd., London. *Pressed steel tanks:* Braithwaite Structural Ltd., London. *Water stills:*

Manesty Machines Ltd., London. *Mixing valves:* Walker Crossweller Ltd., London. *Automatic controls:* Honeywell & Brown Controls Ltd., Middlesex. *Calorifiers:* Hartley & Sugden Ltd., London. *Water level indicators:* Evershed & Vignoles Ltd., London. *Heater batteries:* Copperad Ltd., London. *Air conditioning equipment:* Manwood Miller Ltd., Colnbrook, Bucks. *Ductwork:* Andrew Machine Construction Co., Ltd., London. *Ventilation grilles:* Crittall Manufacturing Co. Ltd., London. *Pumps:* Worthington Simpson Ltd., London. Rhodes, Brydon & Youatt Ltd., London. G. & J. Weir Ltd., London. G. C. Pillinger & Co. Ltd., London. *Fans:* Vent-Axia Ltd., London. Andrew Machine Construction Co. Ltd., London. Woods of Colchester Ltd., London. *Copper tube and fittings:* Yorkshire Copper Tube Co. Ltd., London. *Securex Ltd. Steel tube and fittings:* Stewart & Lloyds Ltd., London. Le Bas Tube Co. Ltd., London. *C.I. pipe and fittings:* Burns Bros. Ltd., London. *Valves:* Charles Winn & Co. Ltd., Birmingham. Hopkinsons Ltd., Huddersfield. La Mont Ltd., Middlesex. *Radiators:* Crane Ltd., London. *Filters:* Matthew & Yates Ltd., Manchester. *Coal conveyors and elevators:* Redler Conveyors Ltd., Stroud. *Boilers:* Ruston & Hornsby, London. *Additional boiler house equipment:* Musgrave & Co. Ltd., Belfast. Hodgkinson Ltd., Salford. Lea Recorder Ltd., Manchester. Mather & Platt Ltd., London. Neckar Water Softener Co. Ltd., London. Diamond Soot Blowers Co. Ltd. Spirex Manufacturing Co., Lionweld, Middlesbrough. Wallace & Tiernan, London. Ronald Trist, Slough. C. A. Dunham & Co. Ltd., London. *Electrical equipment:* *H.V. switchgear:* Cooke & Ferguson Ltd. *Transformers:* G.E.C. *H.V. and L.V. paper cables:* Hackbridge Cable Co. Ltd. *M.I.C.S. cables:* British Insulated Callender's Cables Ltd. *Diesel generator sets:* Henry Meadows Ltd. *L.V. switchgear:* Ottermill Switchgear Ltd. Dorman & Smith Ltd. *L.V. fuseboards:* Dorman & Smith Ltd. *Rising main busbars:* Ottermill Switchgear Ltd. *Emergency lighting equipment—General:* Chloride Batteries Ltd. *Emergency lighting equipment—Operating theatres:* Nife Batteries. *Operating theatre lamps:* "Hanalux" by Sierex Ltd. *Operating theatre control panels:* Technical Lights & Equipment Co. Ltd. *Light fittings:* Frederick Thomas & Co. Ltd. Courtney Pope (Electrical) Ltd. G.E.C. Crompton Parkinson Ltd. C. M. Churchouse Ltd. Merchant Adventurers Ltd. Holophane Ltd. *Electrical accessories:* Wandsworth Electrical Manufacturing Co. Ltd. *Impulse clocks:* The Synchronome Co. Ltd. *P.A.X. telephones, fire alarms, staff locator system:* Multitone Electric Co. Ltd. *Ward call systems:* Hadley Telephone & Sound Systems Ltd. *Special ventilation control panels:* Lee-Guinness Ltd., Belfast. *External light lanterns:* Hume Atkins & Co. Ltd. *External light lantern columns:* A.E.I. Lamp & Lighting Co. Ltd. *Motor starters:* Allen West. *Boiler house control panels:* Kelvin & Hughes.

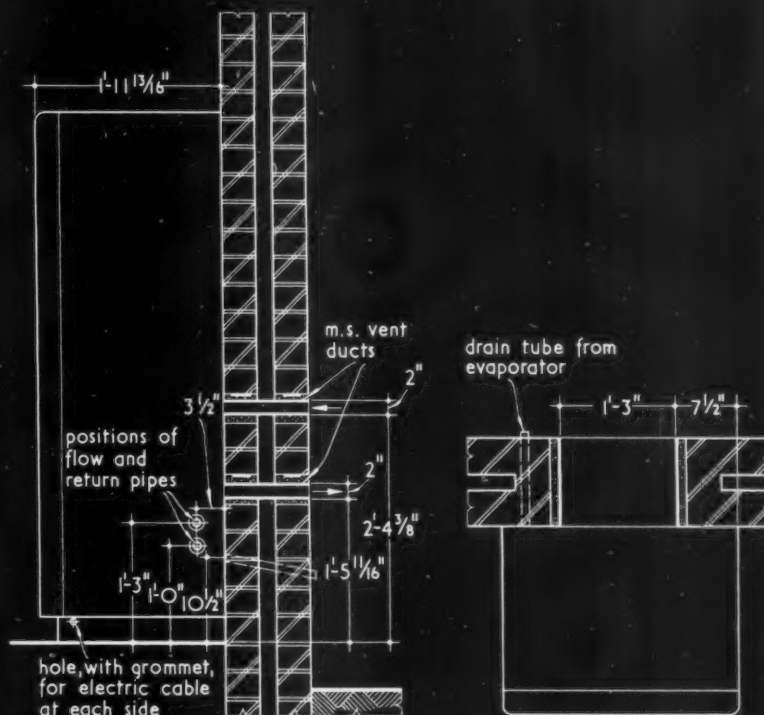
WATER HEATING | MISCELLANEOUS | HEAT PUMP

32.21

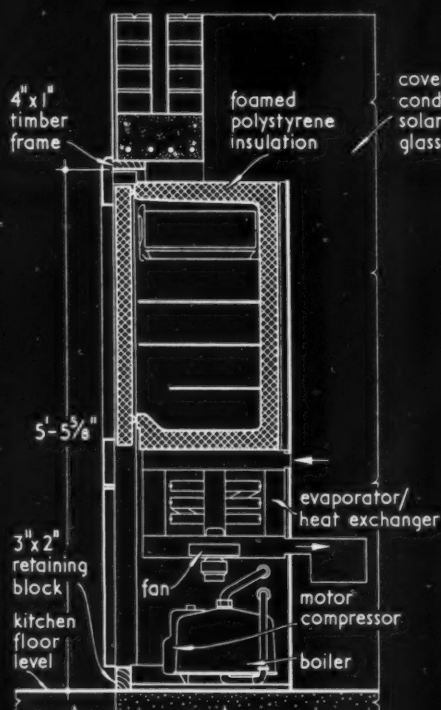
The Architects' Journal Library of Information Sheets 767. Editor: Cotterell Butler, A.R.I.B.A.



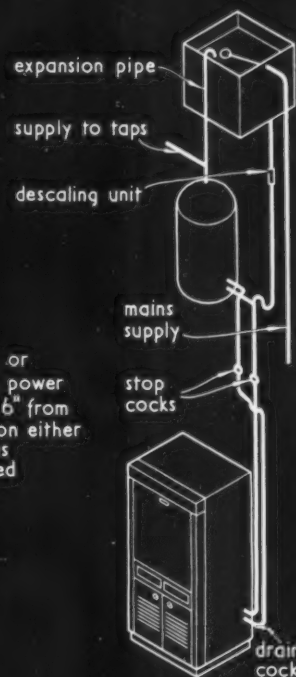
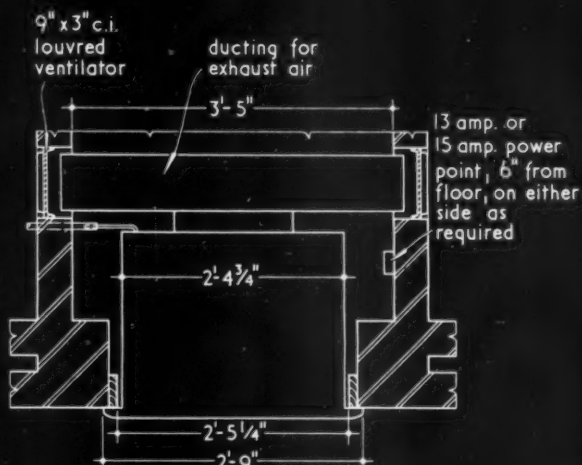
ELEVATION OF CABINET.



SIDE ELEVATION AND PLAN OF FREE-STANDING UNIT.



SECTION AND PLAN OF FLUSH-MOUNTED UNIT.



TYPICAL INSTALLATION.

32.Z1 · ENGLISH ROSE · HEAT PUMP

This Sheet describes the English Rose electrically-operated heat pump, which provides adequate hot water for bath, sink and lavatory basins, refrigeration and, when required, a supply of cooling air to the kitchen.

Principle and Operation

The heat pump utilizes heat mainly from the outside atmosphere, but also from solar radiation, from the cooling of the kitchen and from refrigeration. The air is drawn in from outside and, after the heat has been extracted, expelled outside again. For cooling the kitchen, the air is drawn from and expelled into the kitchen, this being effected by operating a lever on the right-hand side behind one of the lower doors of the cabinet. When the outside temperature drops below 40° F, the efficiency of the heat pump is maintained by means of an automatic booster. When abnormal demands on the hot water supply are made, the booster can be operated manually by a switch: when the switch is on, a red warning light shows on the front of the cabinet.

Design and Construction

The heat pump is housed in the lower part of a steel cabinet, the upper part being occupied by the refrigerator. There are two access doors to the pump, with louvres in each for emitting cool air to the kitchen when required. Two wire-mesh grilles in the centre of the cabinet extract warm air from the kitchen.

Refrigerator: The refrigerator has a sliding door and three shelves, one adjustable. The interior is vacuum-formed in polystyrene sheet and the insulation is foamed polystyrene.

Sizes

The over-all dimensions of the cabinet are 5 ft. 6½ in. high by 2 ft. 6 in. wide by 1 ft. 11⅞ in. deep. The capacity of the refrigerator is 5.4 cu. ft.

Performance

Water heating: The pump is capable of supplying 500 gallons of hot water per week at 140° F. The difference between the temperature of the air drawn in and that expelled is 12° F and the rate of flow 5,000 cu. ft./hr. The normal rate of water heating is approximately 5 gallons per hour depending on the atmospheric temperature, the inlet temperature of the water and the type and amount of insulation in the installation.

Refrigeration: The temperature inside the refrigerator compartment can be adjusted to suit requirements over a range of 15° F to 50° F by setting the switch to the appropriate figure on the thermostat dial. Normal refrigeration is 38° F. Ice cubes can be easily made in the evaporator which has a minimum temperature of 15° F.

Rating

The normal rating of the pump is 800 watts at 230/250 volts, A.C. single phase. It can be run off a 13- or 15-amp. socket with a 3-pin plug. The maximum intermittent rating with booster is 2,800 watts.

Installation

Water system: The boiler and water system should be of copper. To obtain the specified capacity for the heat pump, the maximum distance permissible between the pump and the hot water storage tank is 20 ft. 0 in. measured along the circulating pipe track, i.e. 40-ft. loop. Long horizontal runs of pipework should be avoided and the total horizontal portion should not exceed the vertical, otherwise the temperature of the water in the storage tank will be low and require boosting. The effective head of water should not be more than 20 ft. 0 in. and the system must not be connected direct to the main water supply. The flow and return pipes should be 1 in. diameter. The flow pipe should not be connected to a high flow system, but should enter the storage tank as low as possible above the return pipe. The teeing of new pipes into the existing system is not recommended as such joints can be a source of trouble. Long sweep bends should be used in preference to elbows. A gate valve should be fitted to flow and return pipes. The drain tube from the evaporator must be led off to a convenient draining position.

Cabinet: The cabinet can be installed as a freestanding unit as shown in the drawing on the upper right of the face of the Sheet. Connection to the outside atmosphere is by means of two mild steel ducts supplied by the manufacturer and built into any wall of standard construction by the builder. The drawing on the lower left face of the Sheet shows how the cabinet may be flush-mounted so that it projects outside the building. It should be suitably protected from the weather and the covering erection constructed from materials that will conduct the maximum amount of heat from solar radiation: a glass conservatory, for example, would be a suitable structure.

Finish

The cabinet is rust-proofed and stove-enamelled. It is available in several pastel colours.

Further Information

The manufacturer maintains a technical advisory department which is available to answer questions and advise on technical problems relating to this subject generally.

Compiled from information supplied by:

English Rose Kitchens Ltd.

Address: Warwick, England.

Telephone: Warwick 500

Telegrams: Conscrew, Warwick

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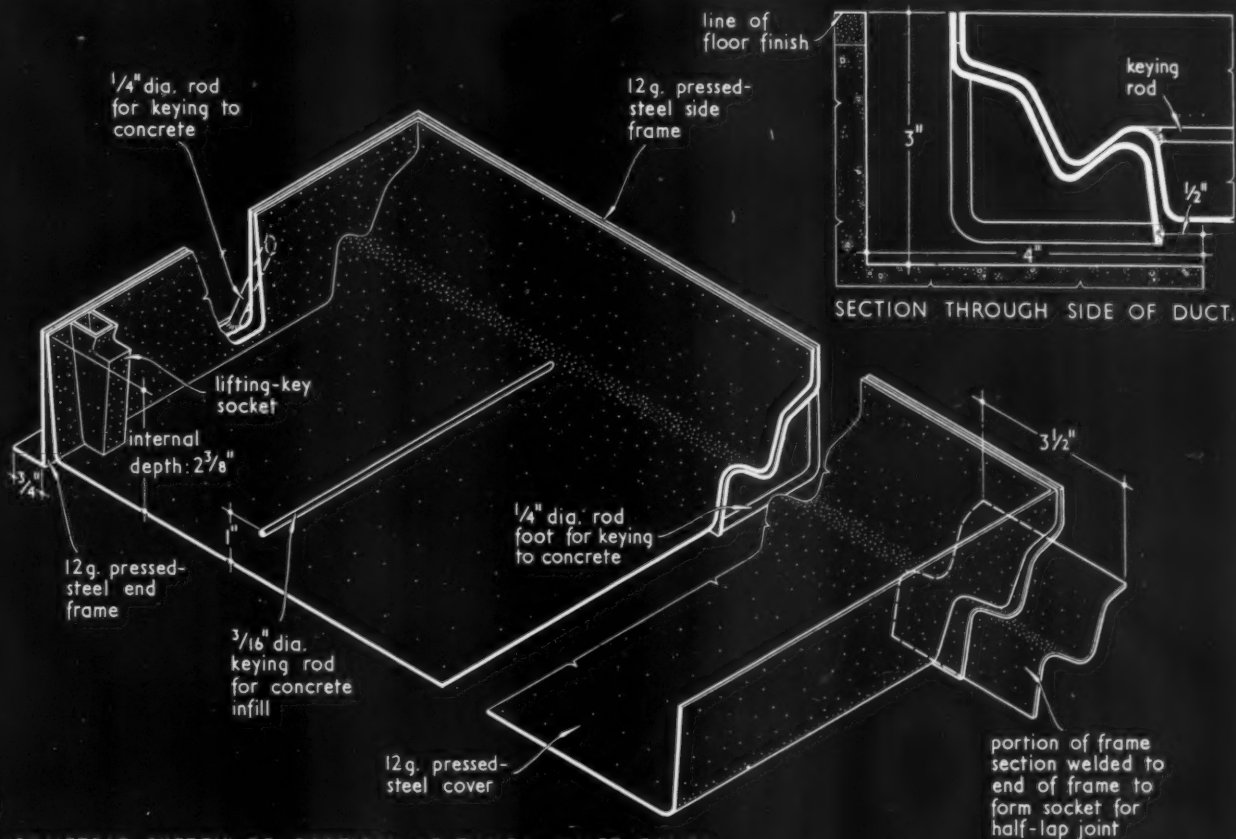
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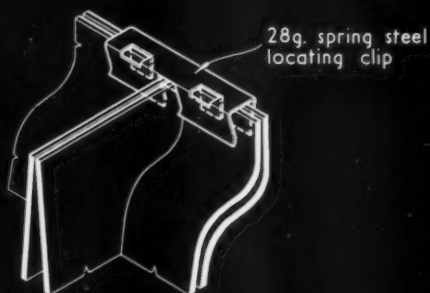
SERVICES AND EQUIPMENT | DUCT COVERS

37.Z1

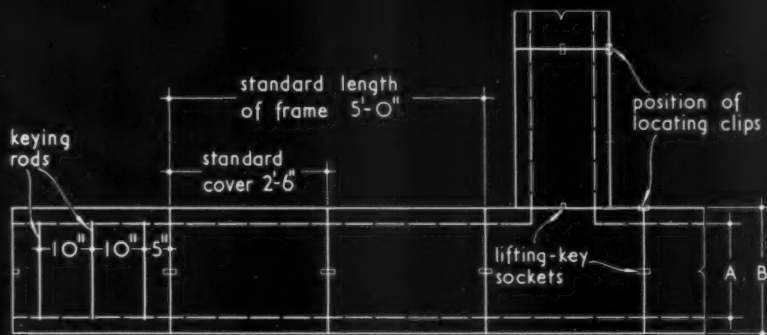
The Architects' Journal Library of Information Sheets 768. Editor: Cotterell Butler, A.R.I.B.A.



ISOMETRIC SKETCH OF PORTION OF TYPICAL DUCT COVER.



DETAIL OF LOCATING CLIP.



TYPICAL PLAN.

A: width of duct (ft. and in.)	B: width of cover o/a (ft. and in.)	approximate weight of cover per 2'-6" length (lb.)
6	1-0	17
9	1-3	20
1-0	1-6	23
1-3	1-9	26
1-6	2-0	29
1-9	2-3	32
2-0	2-6	35
2-3	2-9	38
2-6	3-0	41
3-0	3-6	47

• 1/4" should be added for o/a width of frame

weight of frame : 2 lb. per foot run

length of standard cover : 2'-6"
special fillers supplied to suit site requirements

TABLE OF SIZES AND WEIGHTS.

BROADS STELDUCT: CONTINUOUS DUCT COVERS AND FRAMES. (patent applied for)

Manufacturer : Broads Manufacturing Co. Ltd.

37.Z1 · BROADS STELDUCT · CONTINUOUS DUCT COVERS AND FRAMES *(patent applied for)*

This Sheet describes Stelduct steel duct covers and frames, which can be finished with an infill to match any type of flooring.

Material and Construction

Covers and frames are made from 12 gauge pressed steel sections.

Covers: The cover has a solid base and is formed out of one piece of steel with the corners welded on the inside. The sides are formed to a special profile for strength, as shown on the face of the Sheet. The ends are flat with a slope of 5°. Three keying rods for the concrete infill are provided. Covers for ducts up to 2 ft. 0 in. in width are fitted with two lifting key sockets and for ducts over 2 ft. 0 in. with four key sockets. Special covers are required at ends, corners and junctions: where the length of the duct is not a multiple of the length of the standard cover, the sizes of the special covers are adjusted accordingly.

Frames: Side frames are formed to the same profile as the sides of the covers. A socket is welded to one end of the standard length to support the end of the adjoining length, forming a half-lap joint as shown in the drawing on the upper face of the Sheet. $\frac{1}{4}$ in. dia. rod feet for keying to the concrete are provided as shown, five to each standard length of side frame. End frames are pressed angle sections which are bolted to flanges provided on the end lengths of side frame.

Locating clips: A special spring clip is provided, as shown in the detail on the centre face of the Sheet, to ensure that the cover and frame are properly aligned, to maintain the correct clearance between them and to ensure that the top edges of covers and frames are level. The clips are removed before the final floor finish is applied.

Sizes

The standard sizes of the covers are as given in the table on the face of the Sheet. Special sizes can be purpose-made to suit tile sizes. Frames are supplied in 5 ft. lengths. The covers are designed to provide a clear width between the frames 1 in. greater than the nominal size of the duct to ensure adequate seating for the frames should the duct be made slightly over size.

Loading

When filled with a 1 : 2 : 4 mix using granite aggregate (maximum size $\frac{3}{8}$ in.), the covers will support a uniformly-distributed load of 1,120 lb./sq. ft. with a safety factor of 3.

Installation

Covers and frames are despatched in cartons, each carton normally containing two standard covers, two side frames and fixing clips to make up a 5-ft. run. Lifting keys are also supplied in the pack. The frames and covers are placed in position with the necessary locating clips and the backfilling of the frames and filling of the covers carried out in situ. Any required finish can be applied to the cover filling to match the surrounding floor.

Finish

Covers and frames are zinc-sprayed on all surfaces except the insides of the covers which are sprayed to a depth of 1 in. from the top. The visible edges of covers and frames can be supplied in brass, if required.

Further Information

The manufacturer maintains a technical advisory department available to answer questions dealing with this subject generally.

Compiled from information supplied by:

Broads Manufacturing Company Limited

Address: 4, South Wharf, Paddington, London, W.2.
Telephone: Paddington 7061.

working detail

FURNITURE AND FITTINGS: 92

TELEPHONE CUBICLE: HOSPITAL IN SWINDON

Powell and Moya, architects



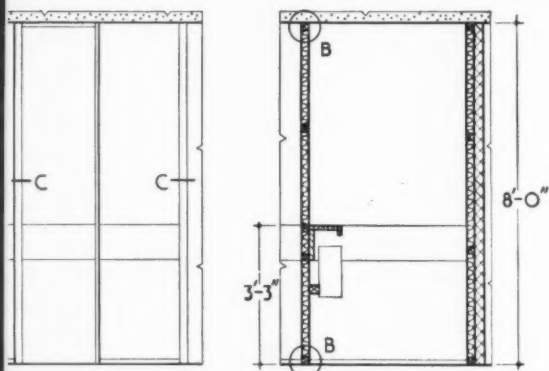
*Careful detailing has reduced this telephone cubicle to the simplest form.
The vertical framing is bronze clad and the exposed hardwood polished.*

working detail

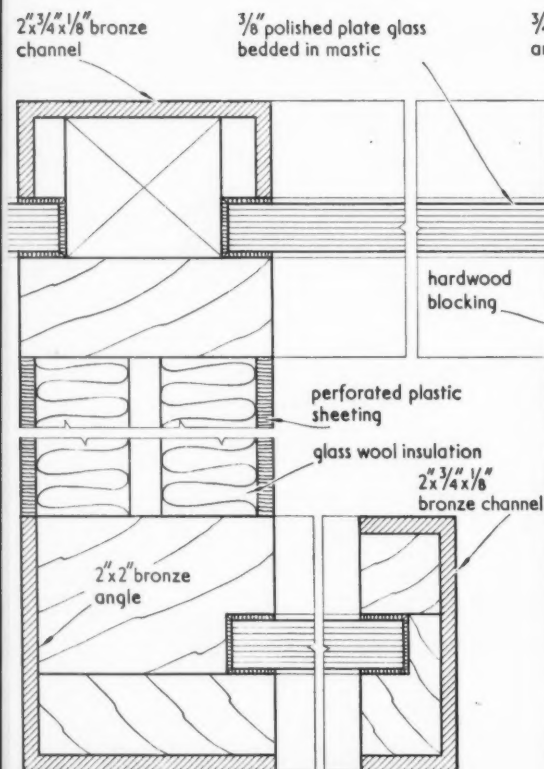
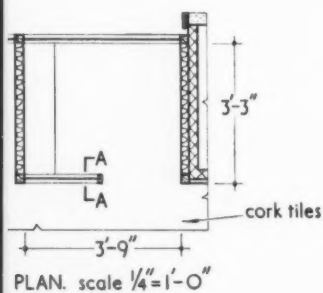
FURNITURE AND FITTINGS: 92

TELEPHONE CUBICLE: HOSPITAL IN SWINDON

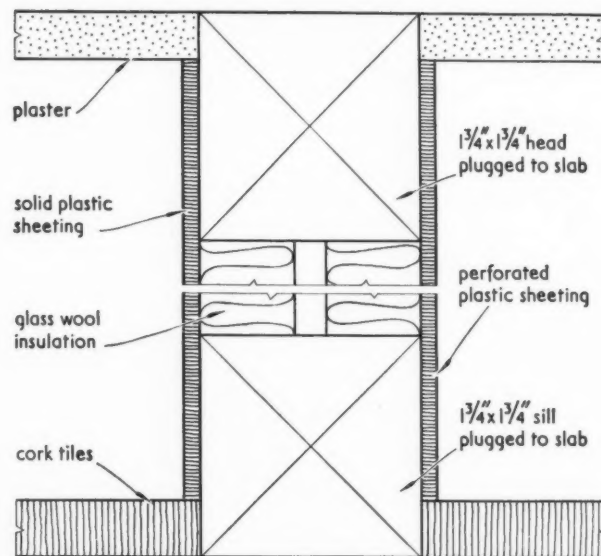
Powell and Moya, architects



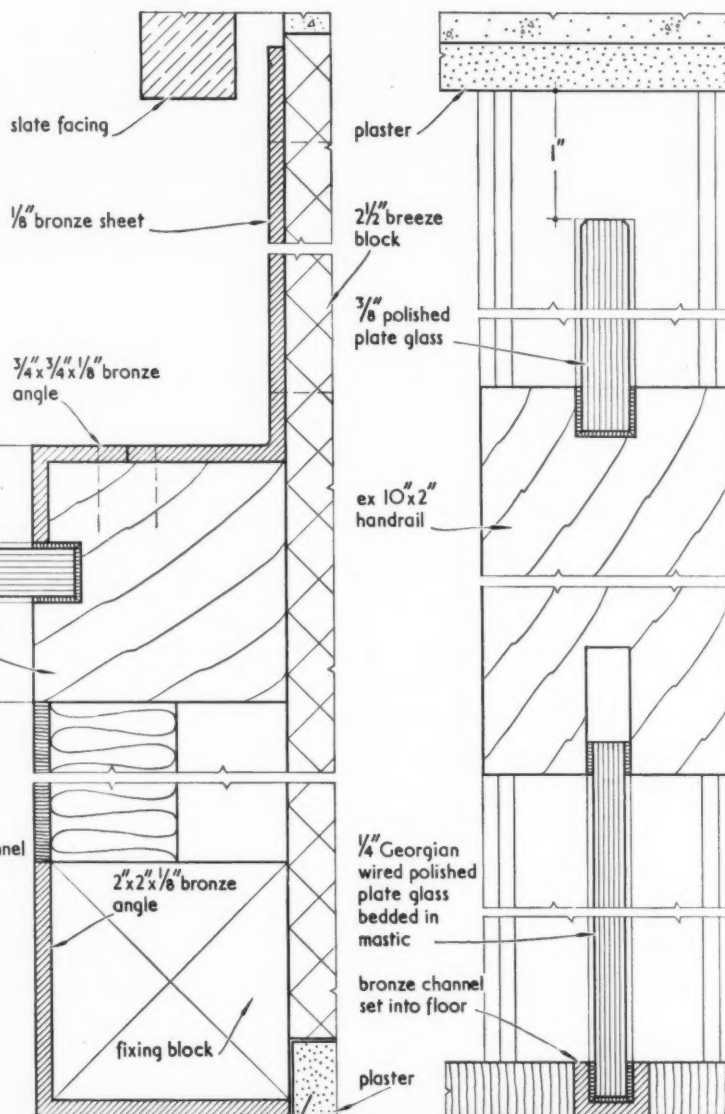
ELEVATION. scale $\frac{1}{4}"=1'-0"$ SECTION.



PLAN C-C. scale $\frac{3}{4}"$ full size

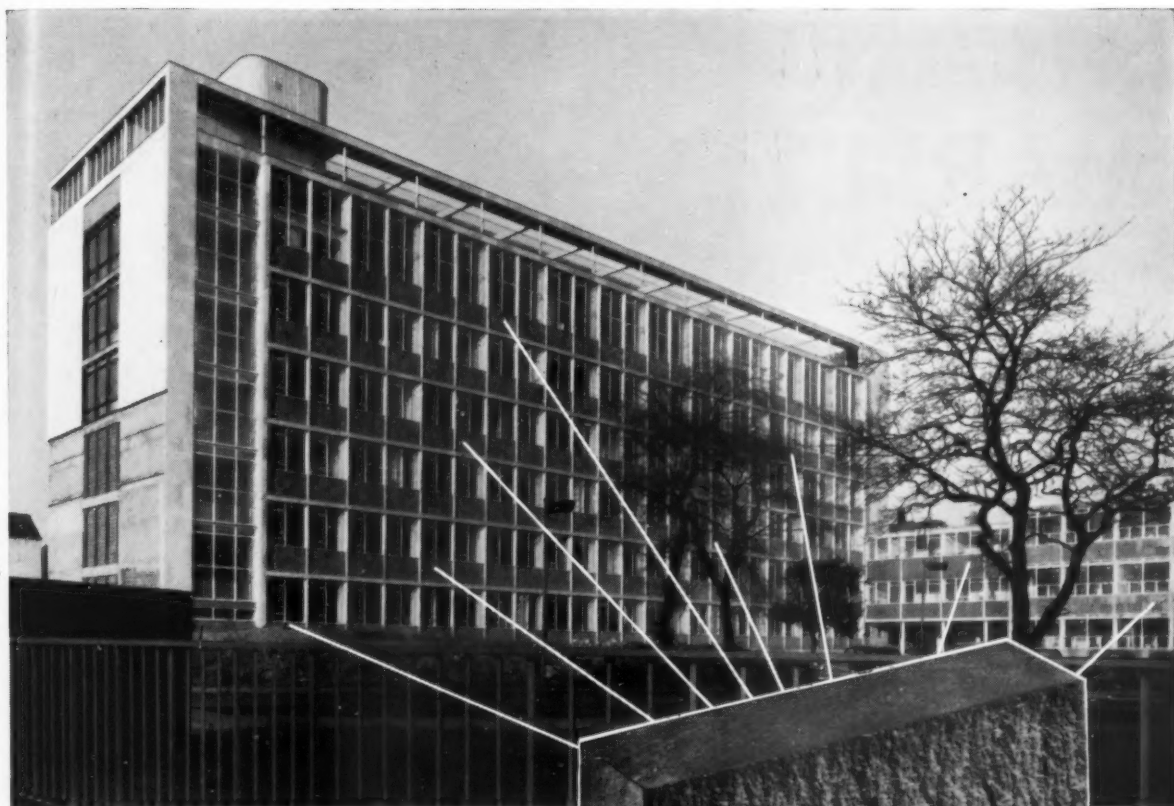


DETAIL B-B. scale $\frac{3}{4}"$ full size



SECTION A-A. scale $\frac{3}{4}"$ full size

BROUGHTON MOOR OLIVE GREEN SLATE RIVEN FINISH

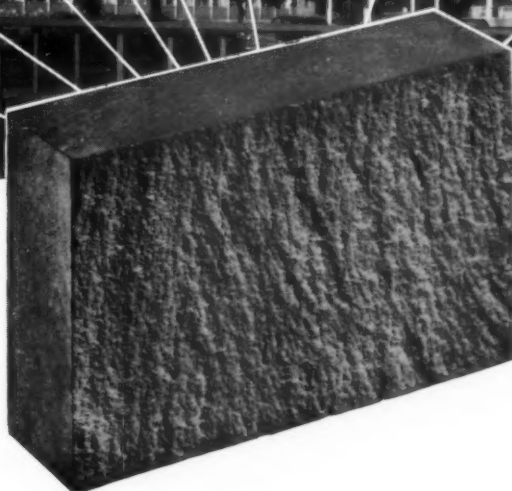


RUTHERFORD COLLEGE, NEWCASTLE-UPON-TYNE

Architect: George Kenyon, A.R.I.B.A.

Contractors: Messrs Leslie & Co Ltd., London and Darlington

Ideally suited for internal and external facings, Broughton Moor Green Slate can be supplied in a variety of finishes— and remains sound for centuries. These characteristics made it an ideal choice for the Rutherford College of Technology, Newcastle-upon-Tyne, architect: George Kenyon, A.R.I.B.A., City Architect. For this contract, Broughton Moor Olive Green naturally riven slate was used, approximately 16,000 square feet being supplied in the form of Ormcraft panels, to which the Broughton Moor Olive Green Slate was cramped and bonded. About 5,000 square feet of the same slate was fixed traditionally.



An example of Broughton Moor Green Slate showing the naturally riven finish: Finely rubbed, sanded and frame sawn finishes are also supplied and all available in three distinct colours: Light Sea Green, Olive Green and Pale Green Barred. Technical pamphlets showing typical methods of fixing are available as follows:

1. Flooring.
2. Facing.
3. Coping.
4. Cills.
5. Riven Face Slabs.

Broughton Moor

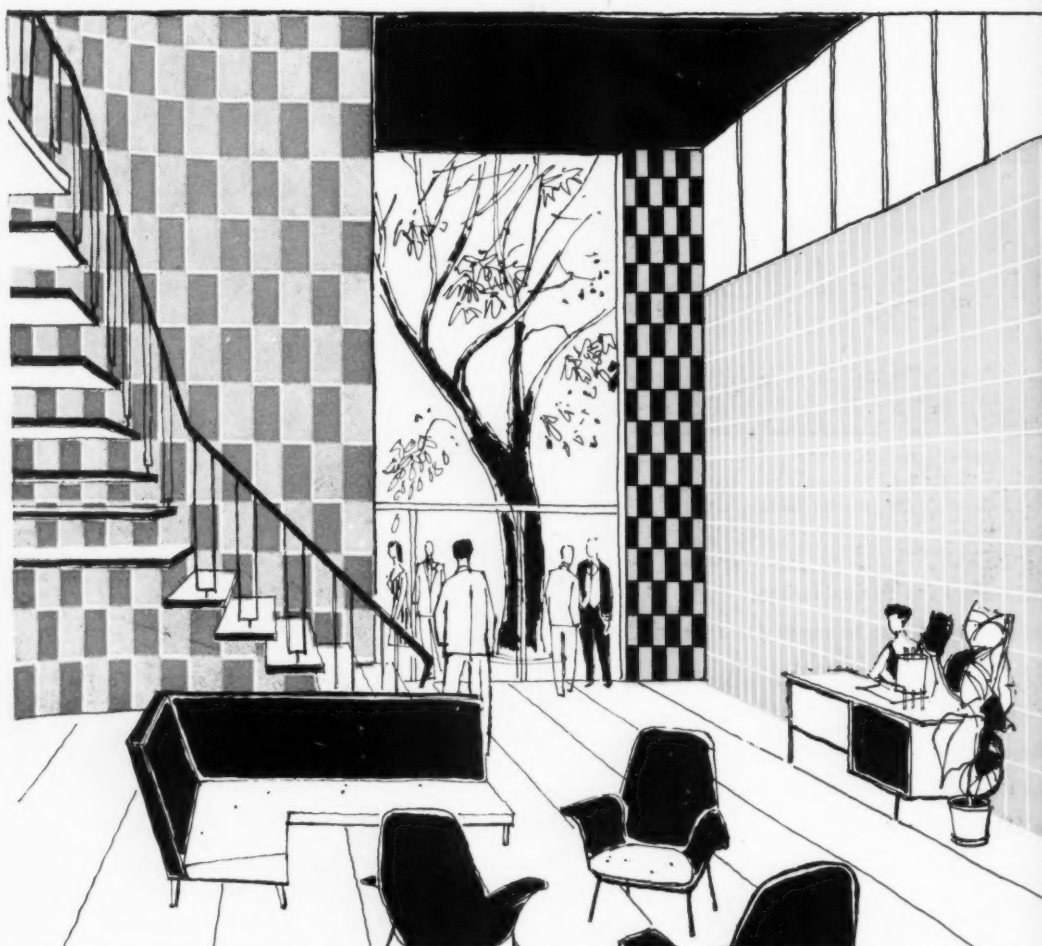
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TALLEST BUILDING IN WEST BERLIN



This 21-storey block, the Telefunken building, is the highest in West Berlin, and stands at the traffic junction of the new city planned by Professor Hermkes. The block, which was designed by Schwebes and Schoszberger, is intended to dominate the area, and is to provide headquarters offices for a large industrial enterprise. The basement is planned as a large shop, and the whole first floor as an exhibition room. The block tapers towards each end, so corridors get narrow as they approach the staircases at each end, offices remaining the same width. These end staircases and a central lift shaft provide three supporting "towers" within the structure. Apart from these the frame consists of four outside columns running the height of the east and west facades.



THE WONDER BAKERY, NEWCASTLE-ON-TYNE

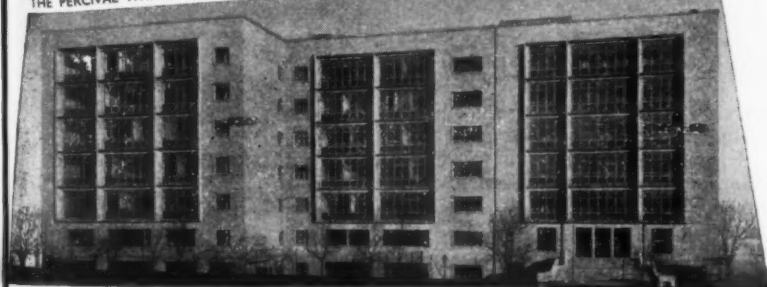
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WOOL INDUSTRIES RESEARCH ASSOCIATION, TORRIDON, LEEDS
Consultants: Messrs. Rosser & Russell, Leeds

THE PERCIVAL WHITLEY COLLEGE OF FURTHER EDUCATION. Architect: Mr. Richard Pickles, A.R.I.B.A., Halifax



MELLOR BROMLEY (AIR CONDITIONING) LTD., ST. SAVIOUR'S RD., LEICESTER (Member of the Bentley Group) Telephone Leicester 38161

AC 28

Announcements

PROFESSIONAL

Laurence M. Gotch, F.R.I.B.A., has retired as a partner of Gotch & Partners. The firm will be under the control of the remaining partners, M. de l'Orme, L.R.I.B.A., Arthur Wilkinson, F.R.I.B.A., and J. P. R. Black, A.R.I.B.A. They are bringing in as associates in their London office R. W. Sale, A.R.I.B.A., and A. F. Jones, A.R.I.B.A., John Wells-Thorpe, A.R.I.B.A., will take charge of the Brighton office.

Grenfell Baines & Hargreaves, chartered architects and planning consultants have moved their London office to 4, Cavendish Place, W.1 (telephone Langham 2621).

Alexander Leifer, A.R.I.B.A., has moved to new offices at 125, High Holborn, London, W.C.1 (telephone Chancery 3128/9).

F. G. Clarke, M.I.STRUCT.E., of Clarke, Nicholls & Marcel, consulting structural engineers, has taken into partnership J. H. Willis, A.M.I.STRUCT.E., and Derek Bond, A.M.I.STRUCT.E.

L. G. Mouchell & Partners, consulting civil engineers, are moving to new offices at Southbank House, Black Prince Road, Albert Embankment, London, S.E.11 (telephone Reliance 7691), during the middle of June.

Walter Rosser, F.R.I.B.A., has moved to new offices at 6, Princess Street, Northampton (telephone 2453).

B. H. Clapcott, Technical Director, Sydney Building Information Centre 515-525, Elizabeth Street South, Sydney, N.S.W., Australia, will be pleased to receive manufacturers' catalogues and trade literature.

TRADE

Massey-Ferguson (United Kingdom) Ltd. announce that L. H. Pomeroy is now Director Marketing, United Kingdom Operations.

W. B. Chrystal is now representing Richard Baxendale & Sons Ltd. in the North of England.

W. F. Amies has succeeded C. V. Oliver as chief executive of the Reed Group's converted products division and is appointed to the board of the Key Engineering Co. Ltd.

F. Hills & Sons Ltd. have moved their London office to Windsor House, Kingsway, London, W.C.2 (telephone Chancery 9251). T. Dawson has been promoted from North East Area representative to London Area Sales Manager, Doors Division; B. Donnelly will represent the company in the North East for Doors, Durabond and Melabond and C. Banks is representative for the South Western Area.

Formica Ltd. have formed a Marketing Department under the management of P. I. Hallbery.

A. H. Anderson Ltd. have appointed Derek Stephenson, B.A.R.C.H. (L'POOL), A.R.I.B.A., as chief architect to the company.

Sherwoods Paints Ltd. announce that Leslie Gage is now London Area Manager, Decorative Sales.

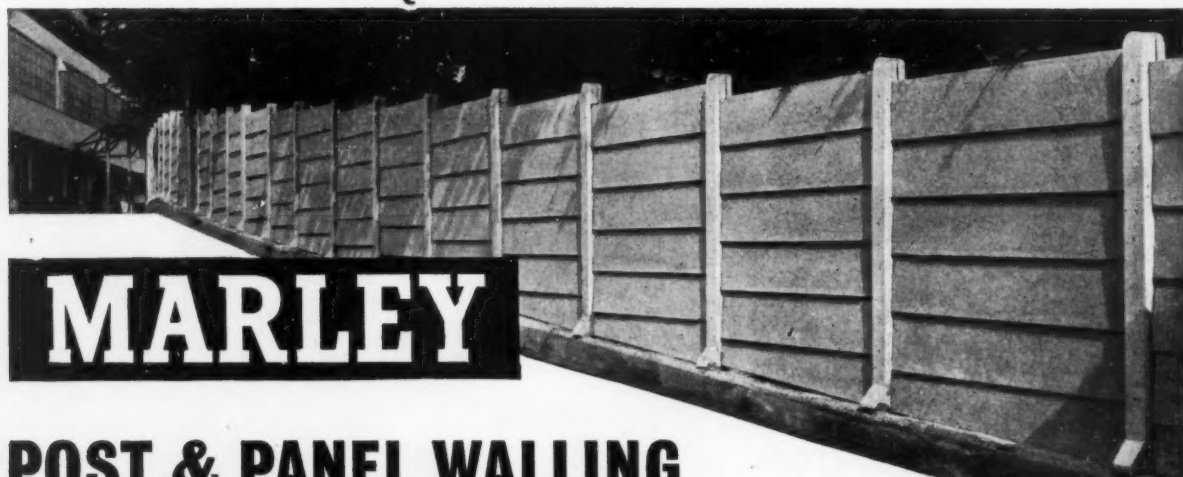
Maurice van Westerborg has been re-elected chairman of the Joinery and Woodwork Employers' Federation.

British Insulated Callender's Cables Ltd., Liverpool Branch, will be altering their telephone number to Maritime 2424 from June 1.

S.L.R. Electric Ltd. are moving their Head Office to Cranborne Industrial Estate, Cranborne Road, Potters Bar, Middlesex. The Sales Department and Showroom is at Welbeck Works, Welbeck Road, South Harrow, Middlesex.

Frank Hall is the newly-appointed Joint Clerk of Works in the Estates Department of the Kenning Motor Group.

The Universal Asbestos Manufacturing Co. Ltd. have appointed J. M. Scarrott as representative in Norfolk and East Suffolk.



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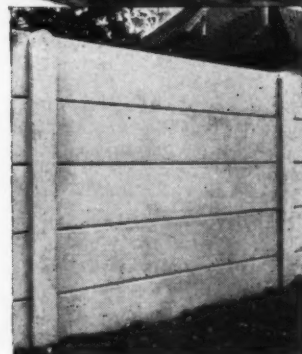
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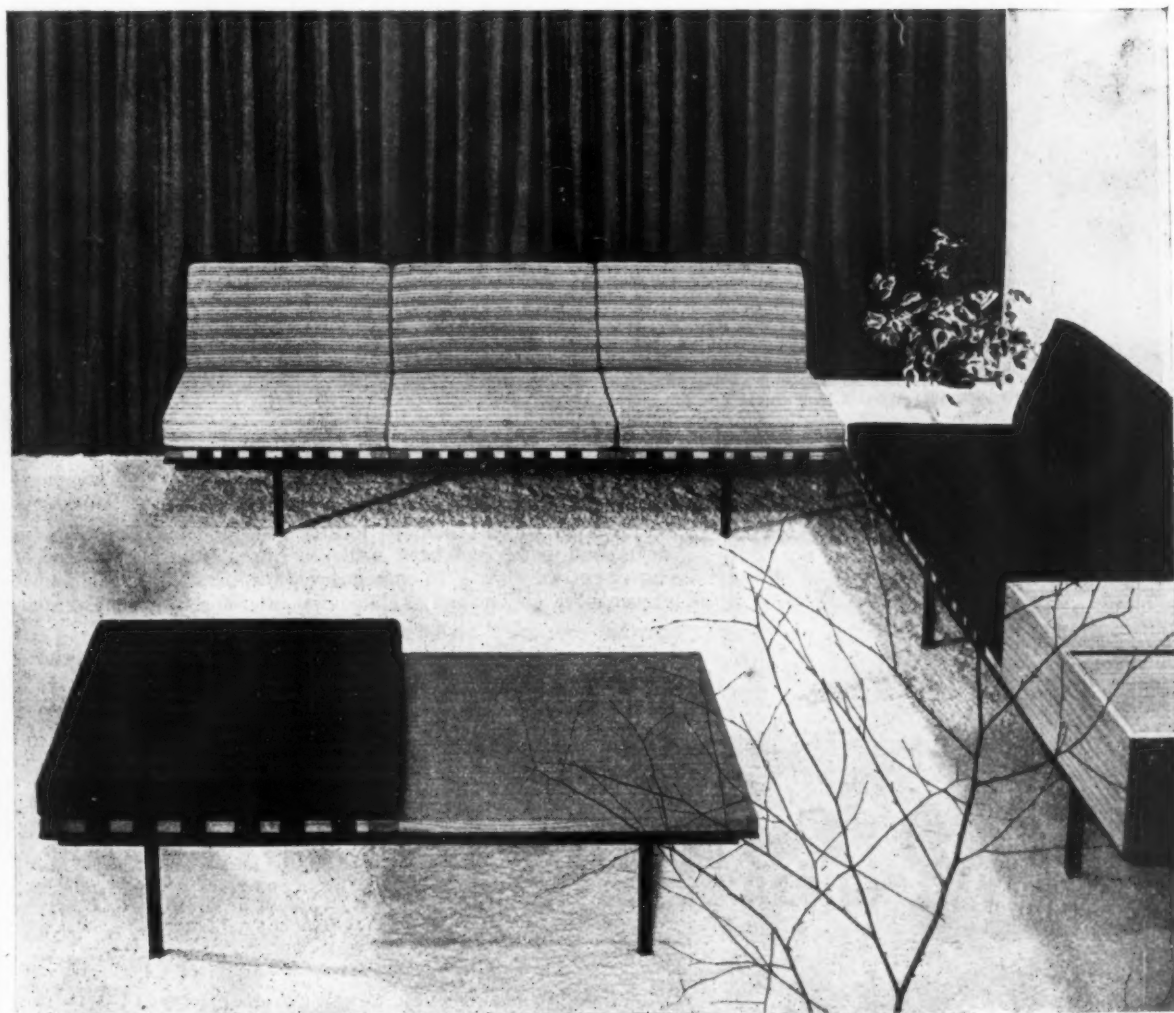
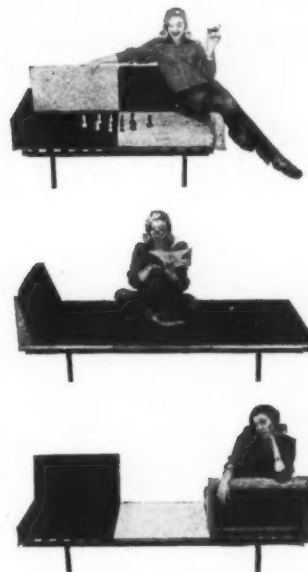
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(BS1363)

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*Cover screw now captive with the plug body cannot be lost and saves handling time. "Shakeproof" spring washer (also captive with the screw) ensures a firm and non-loosening fixing.

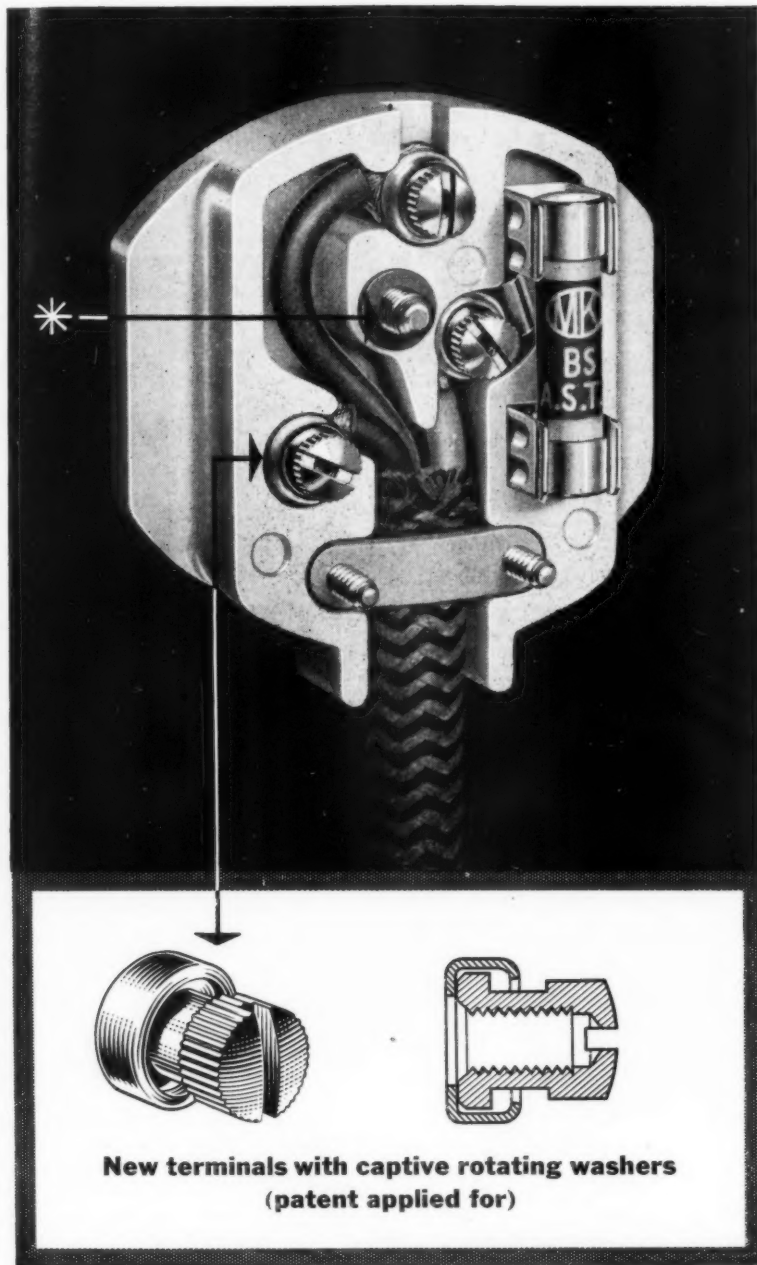
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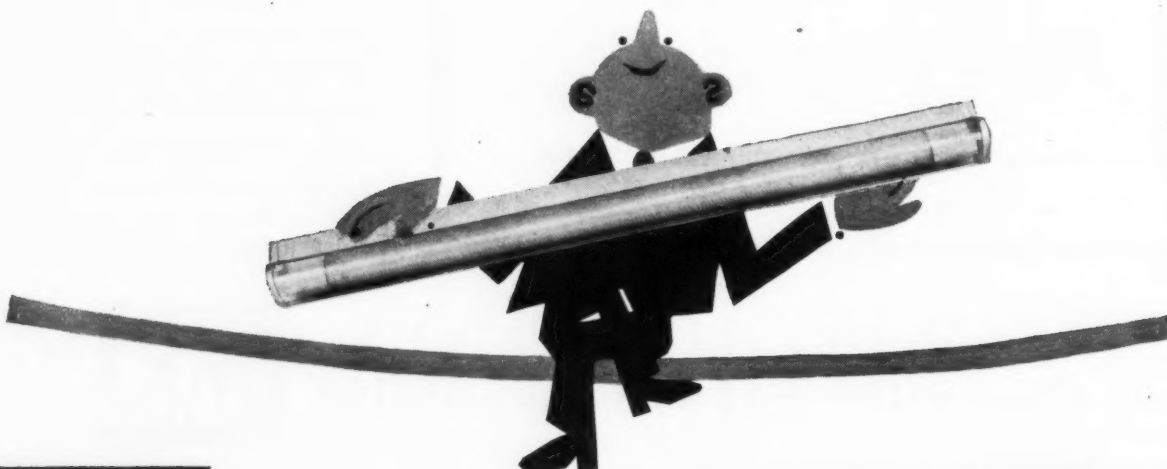
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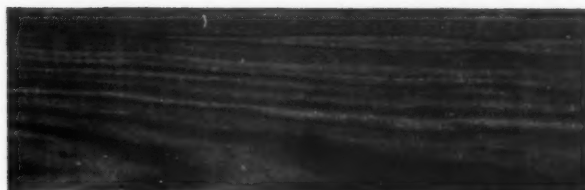


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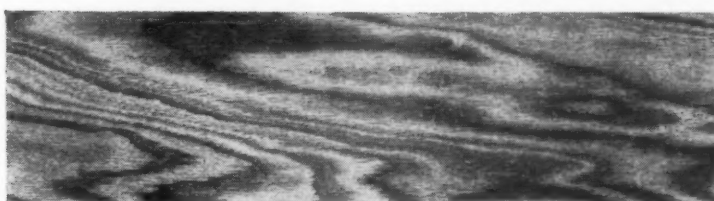
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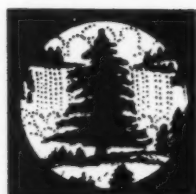


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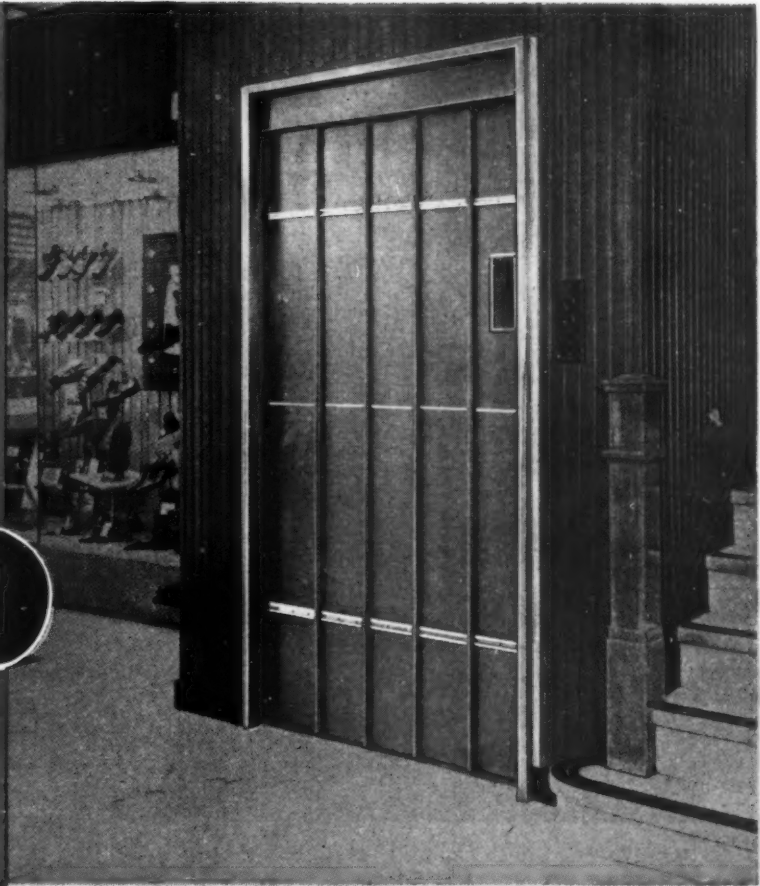
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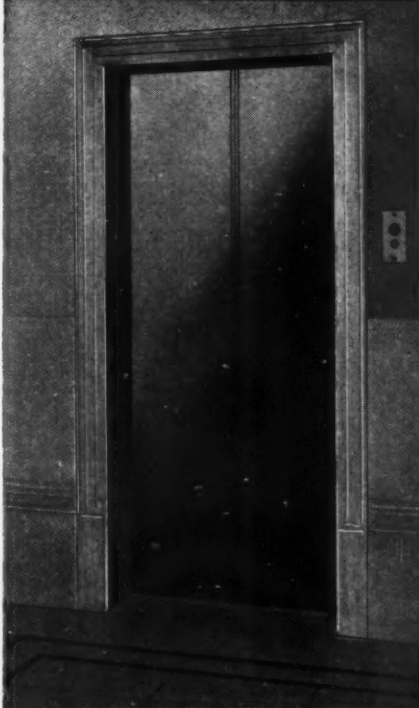
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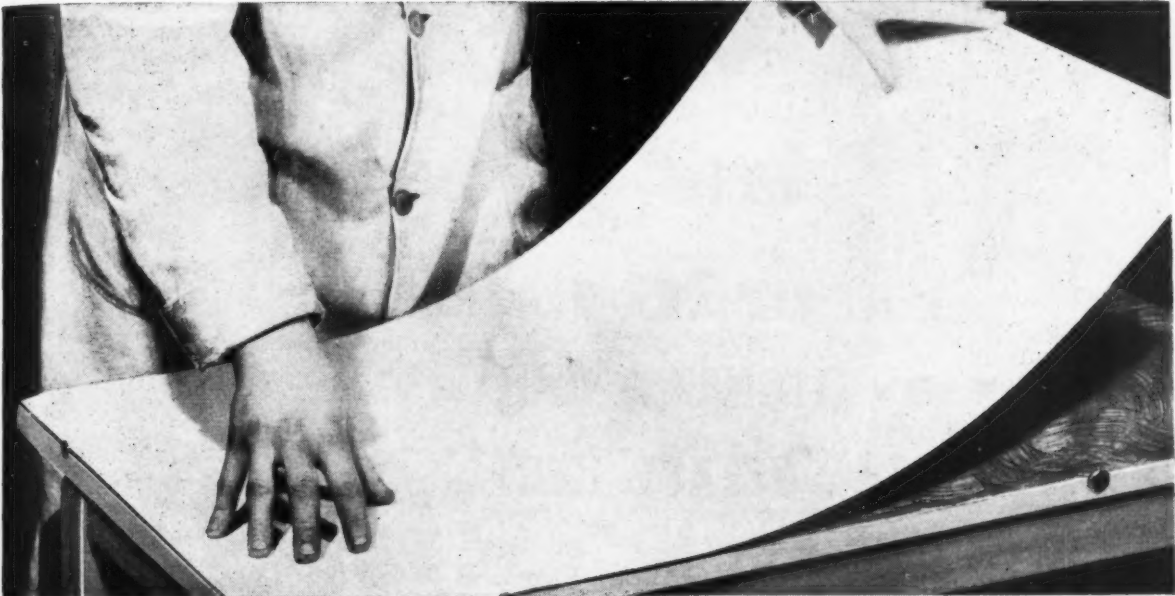
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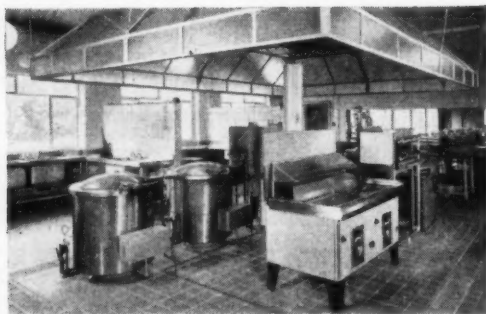


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New water heating **PARKRAY 6** convector fire replaces back boiler fires without disturbing the surround

The new Parkray 6 is supplied complete with concrete panels which form a quickly constructed recess to receive the appliance and, at the same time, a convection chamber of the correct size. It can be installed direct through fireplace openings 16" to 18" wide by 22" to 24"

high without disturbing the tiled surround. It is a highly efficient replacement for the back boiler or boiler flue set and greatly improves the space and water heating services. Finished in Lexos porcelain enamel in a choice of 6 colours.

PERFORMANCE

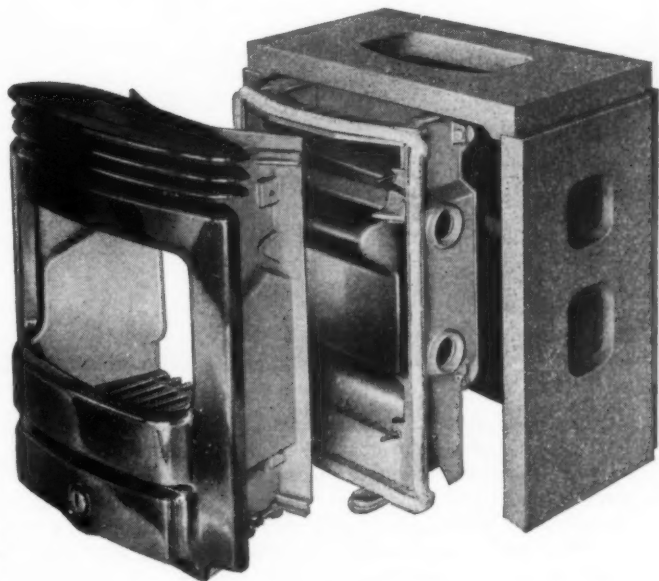
The Parkray 6 provides full space heating by radiation and convection in rooms up to about 1750 cu. ft. An adjustable throat restrictor cuts to a minimum the heat loss up the flue—achieving substantial fuel savings and increased comfort compared with the performance of a traditional open fire with back boiler.

Water heating outputs of 10,000 B.t.u./hr. with the damper open, and 7,500 B.t.u./hr. with the damper closed are easily maintainable. This will provide an abundance of hot water for all domestic purposes from a cylinder of about 30 gallons capacity.

The Parkray 6 splits into 2 units. This is a unique design feature which

- (a) enables it to be installed in existing fireplaces without damaging the tiled surround
- (b) gives full access to boiler and flue connexions
- (c) makes it easy for one man to handle.

The appliance backs into the pre-cast concrete convection chamber and is simply connected to the flue and fixed to the hearth. Boiler connexions can be made on either hand.



Radiation

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WATER HEATING CONVECTOR FIRE

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Space heating version

the low-cost Parkray 5 convector fire. Full heating by radiation and convection in rooms up to 2,000 cu. ft.

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Rawbolts have revolutionized bolt fixing. A job that once took days is now done in minutes—no cold chiselling, no waiting for cement to harden, no mess!

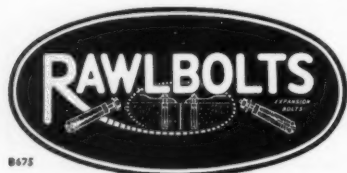
Rawbolts reduce bolt-fixing to three swift and simple operations—drill the material, insert the Rawlbolt, tighten up. The fixing is ready to take its full load *at once*, because a Rawlbolt is a dry fixing that grips by expansion.

Rawbolts are used by the million by all the great industries of the world, and everywhere their record is the same—completely safe, reliable fixings of enormous strength in

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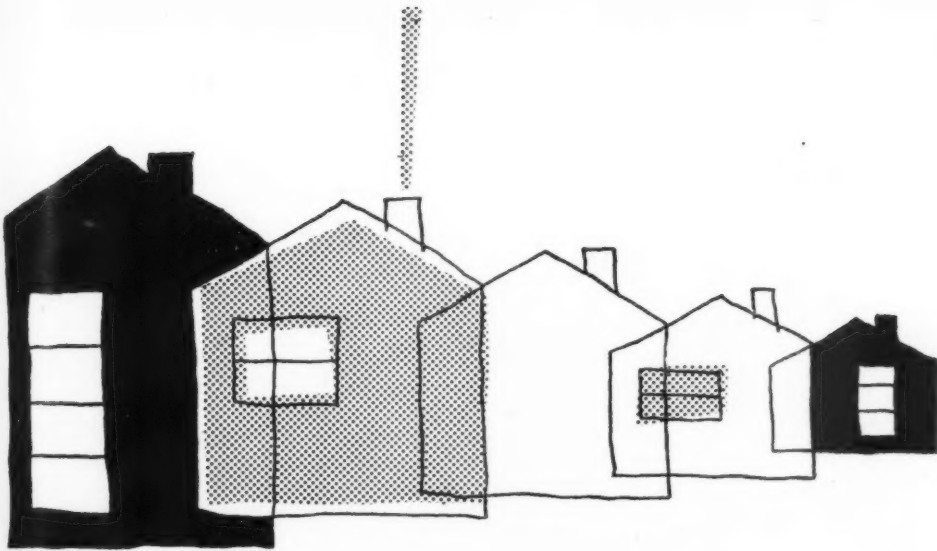
Rawbolts are one of the 21 different types of Rawlplug Fixing Devices that speed up and simplify every kind of screw or bolt fixing job in hard materials. Other devices include Rawlplugs—still vastly quicker and easier than any other method of screw-fixing—and the amazing Rawlnut which forms its own 'rivet head' behind thin materials. Write now for full details.



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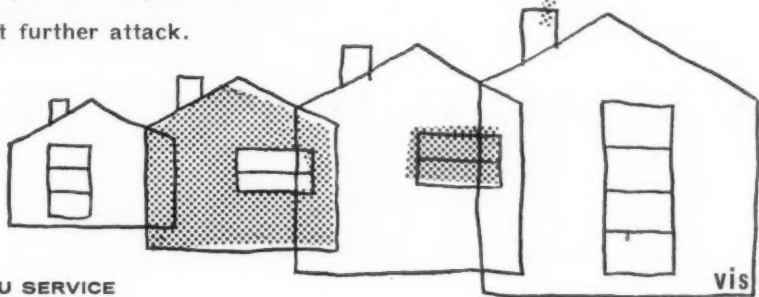


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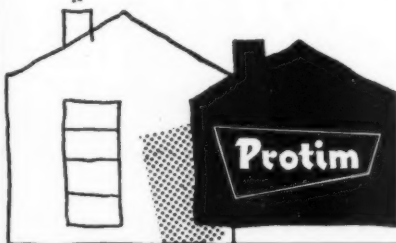
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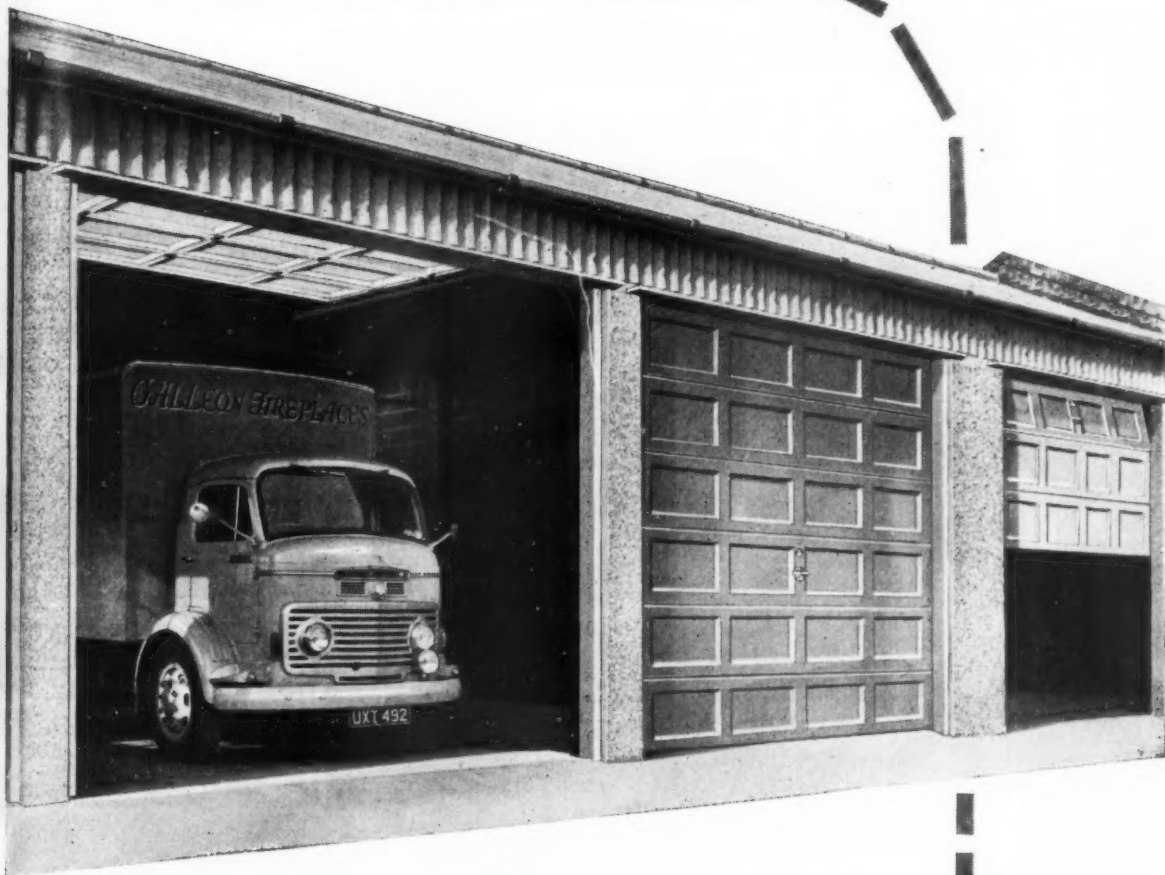


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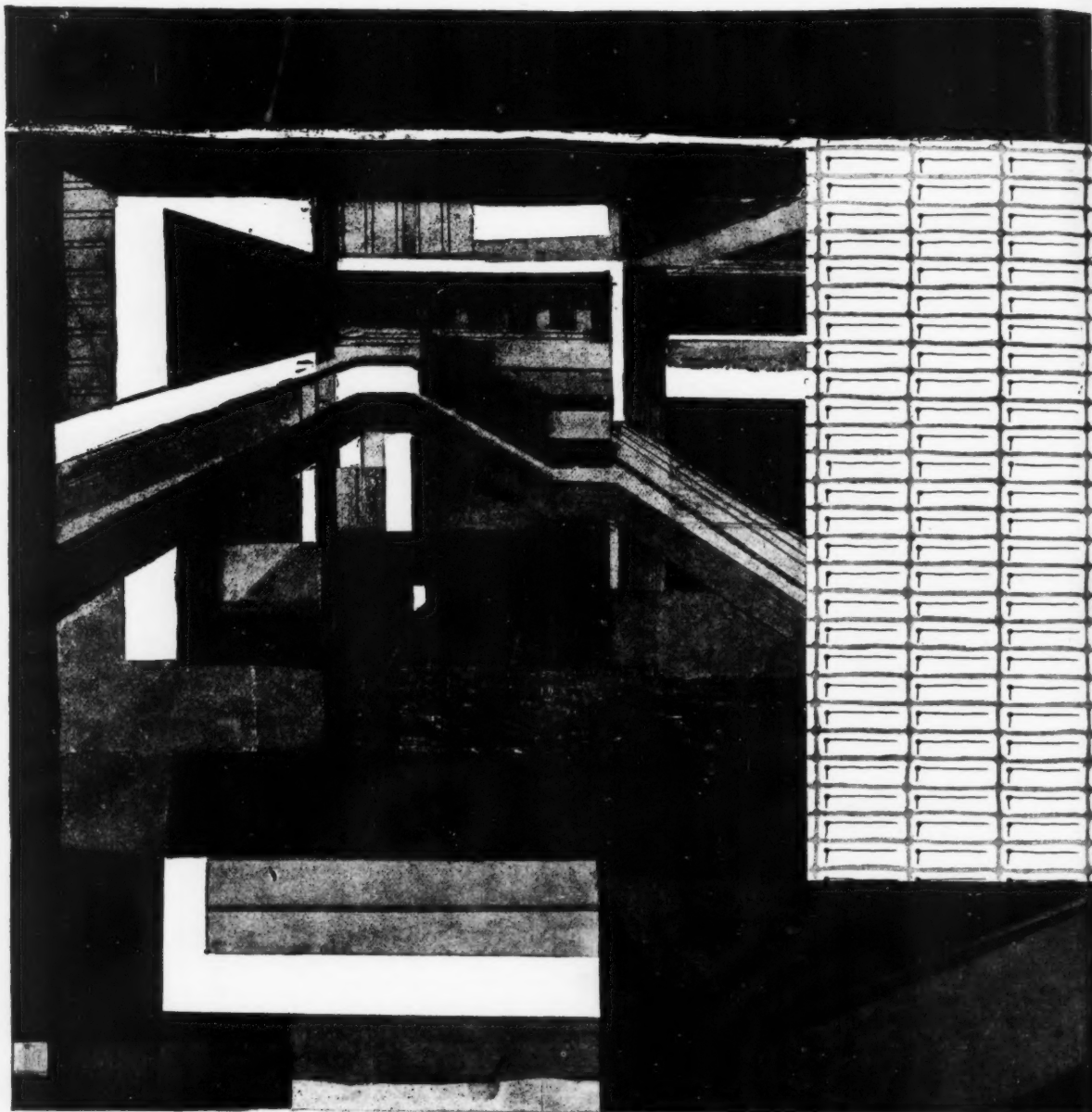
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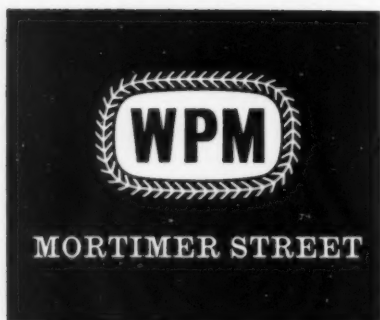
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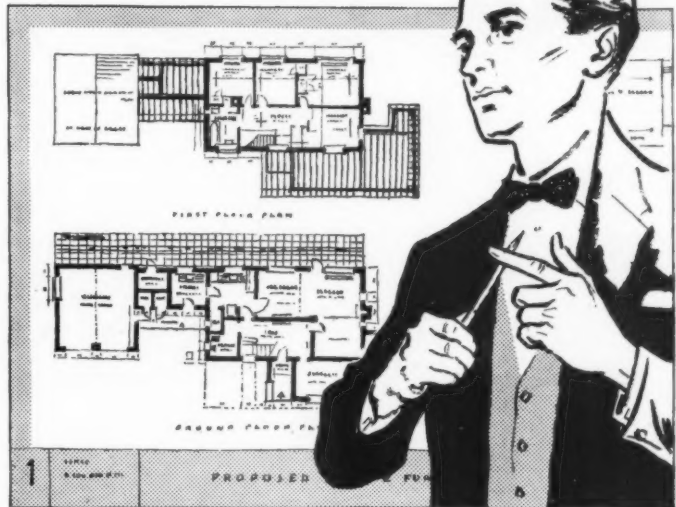
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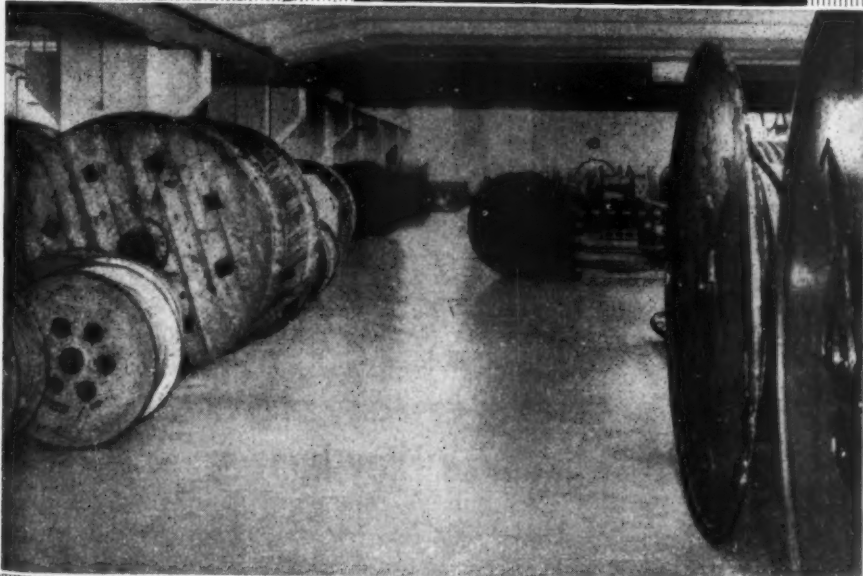
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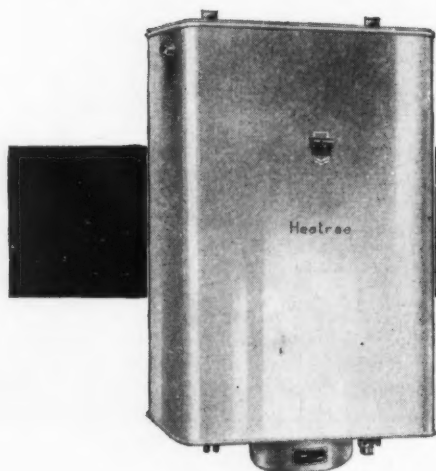
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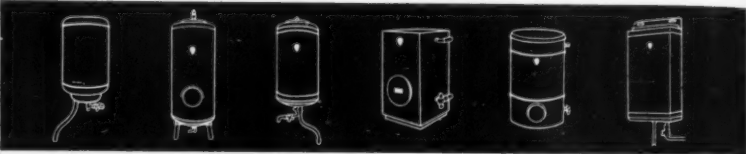
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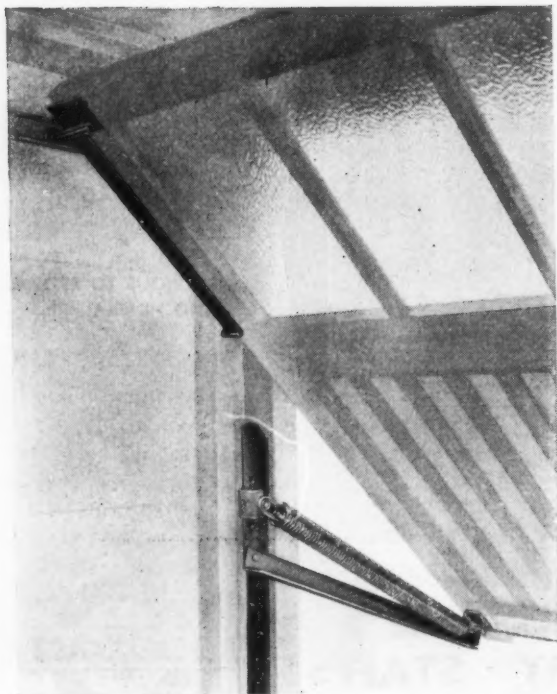
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The graphic features a large, stylized 'E' shape in the background. At the top of the 'E' is a circular logo with a crown and the letters 'SCA'. Below the 'E', the word 'ESCABOARD' is written in a bold, italicized, sans-serif font. At the bottom of the 'E', there is a group of stylized figures in mid-20th-century attire, some pointing upwards. Below the figures, the text '-AN IMMEDIATE SUCCESS' is written in a bold, sans-serif font.

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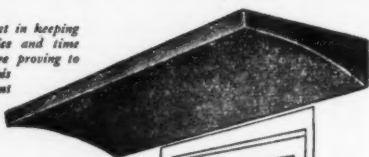
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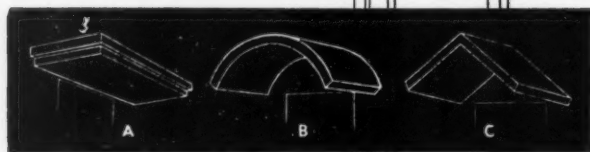
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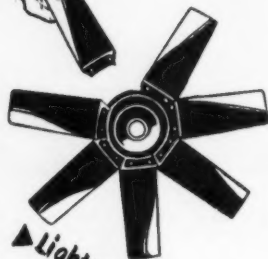


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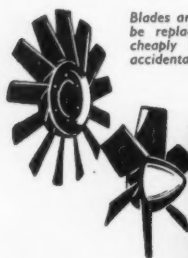
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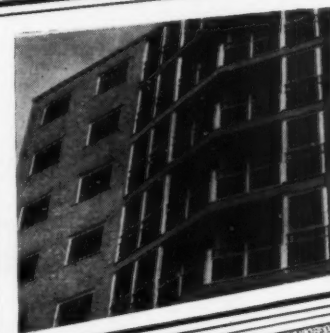
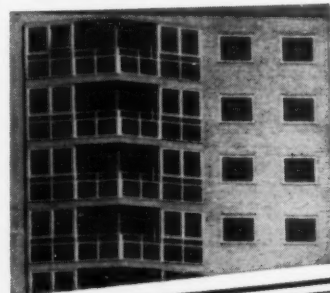
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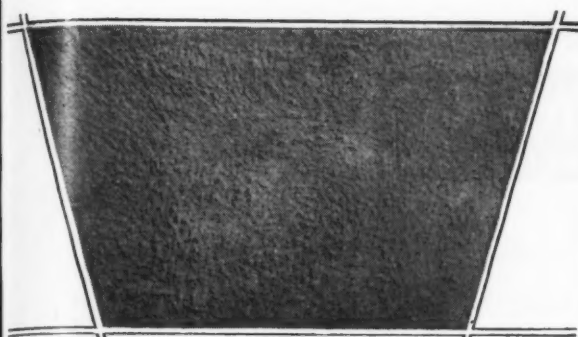
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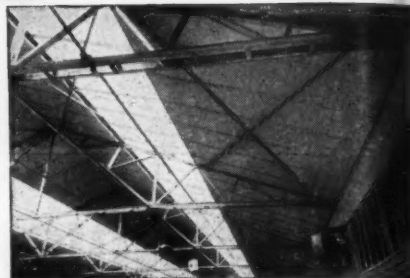
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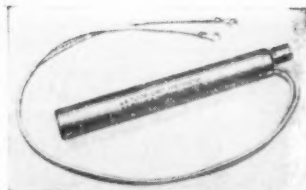
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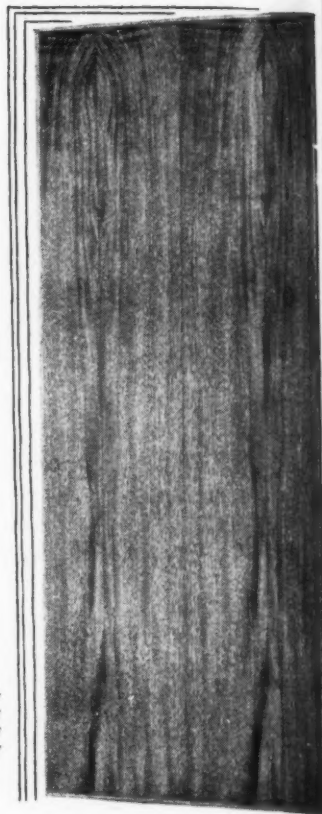
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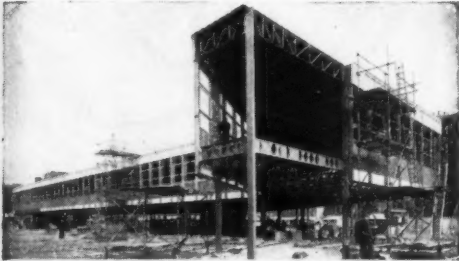
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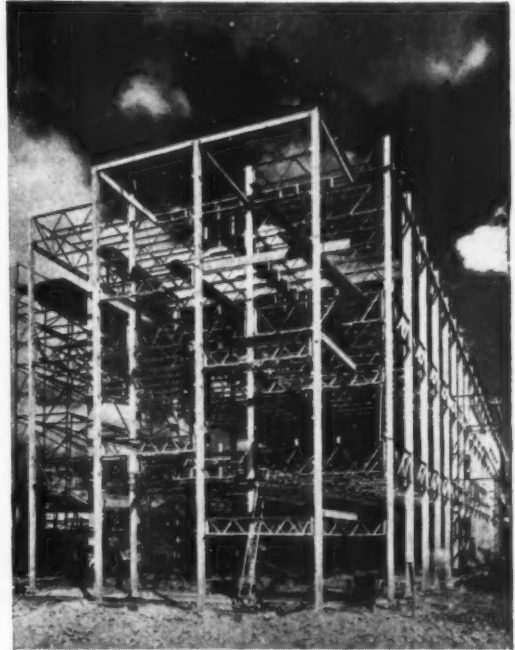
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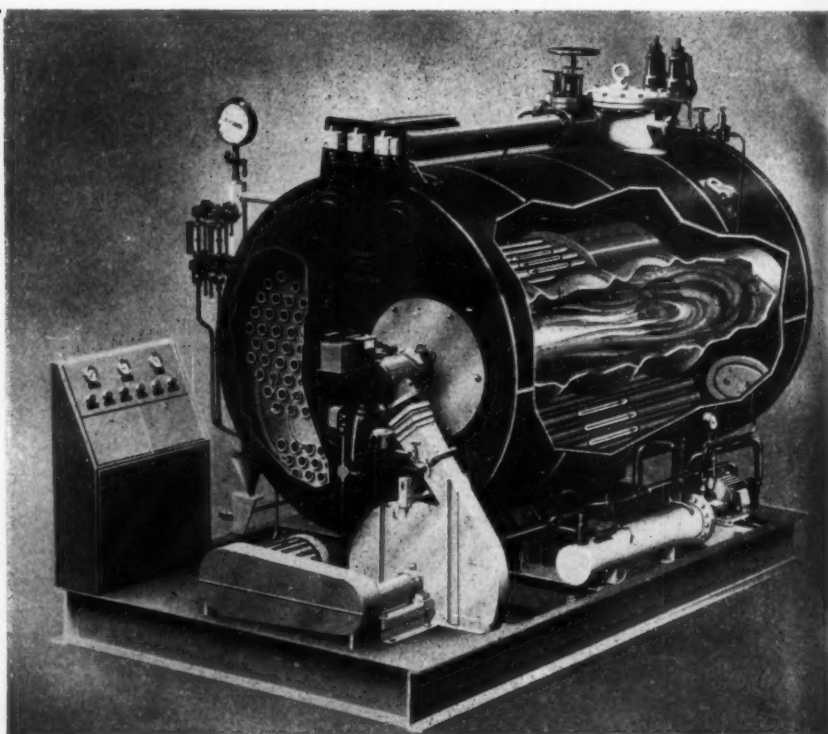
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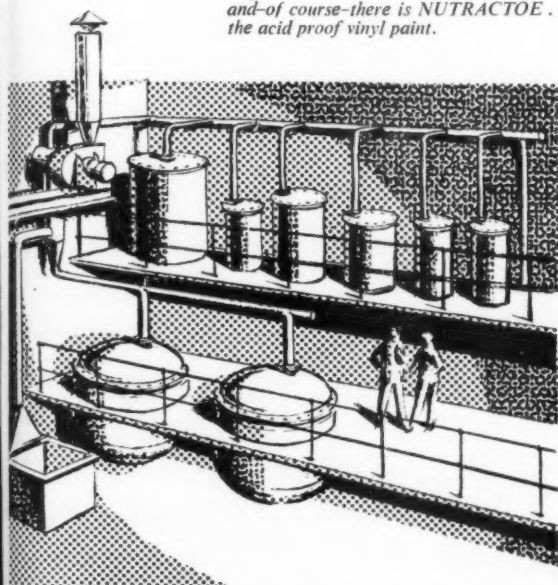
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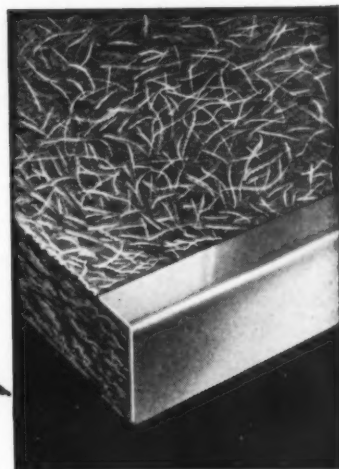
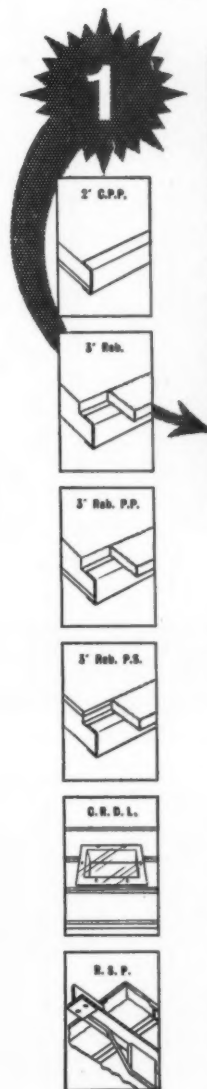
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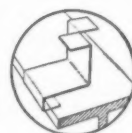
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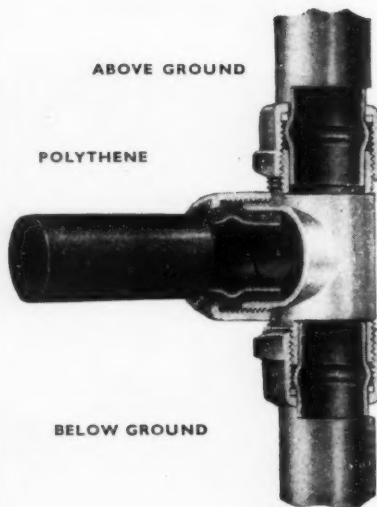
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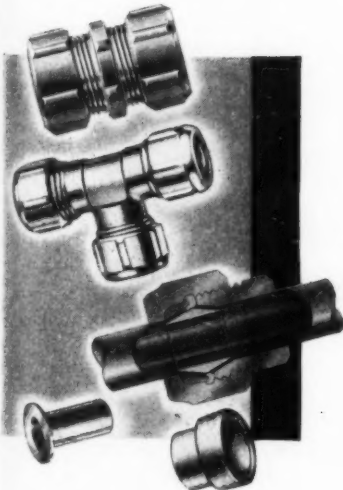


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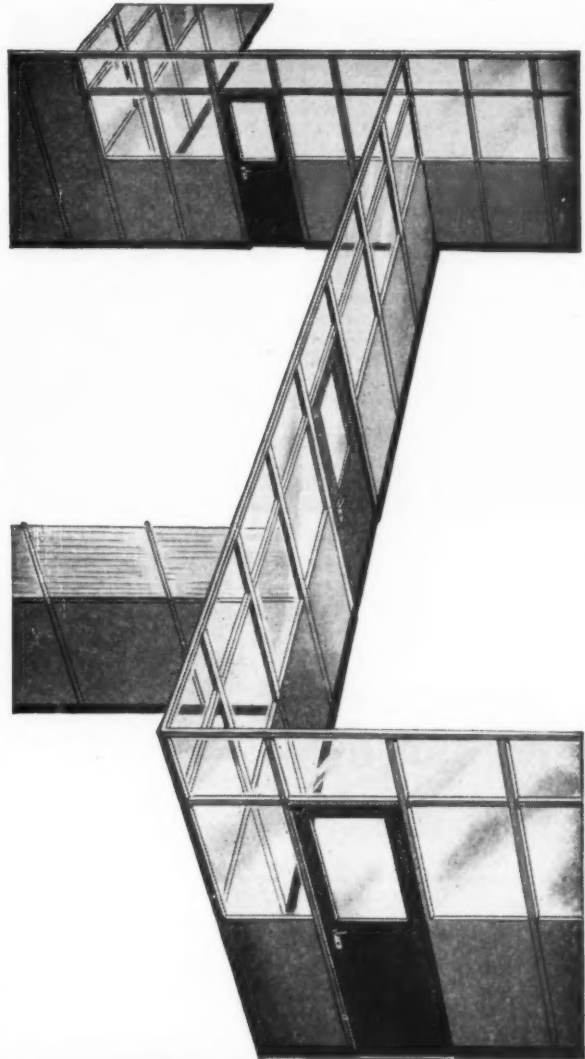


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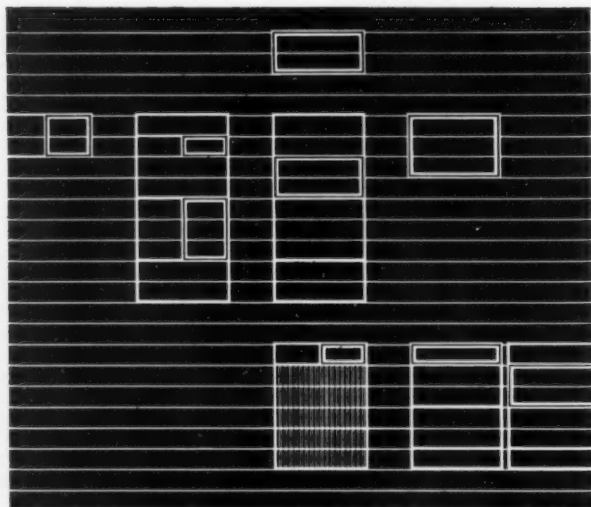
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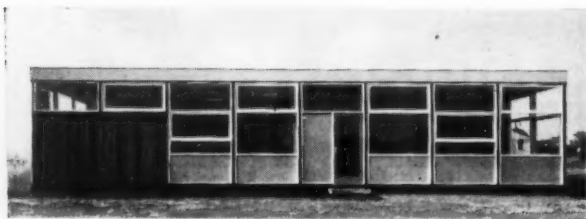
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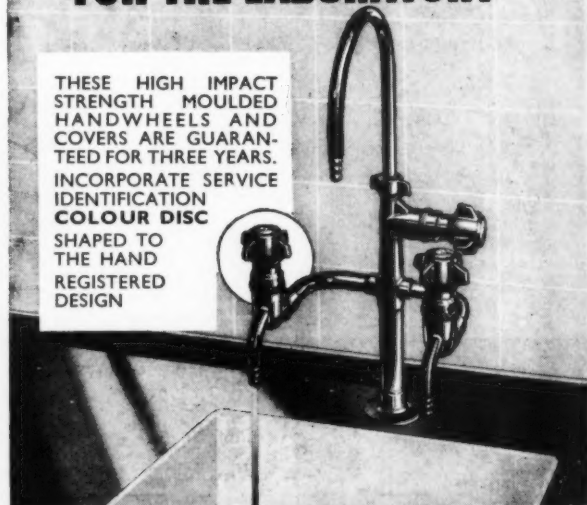
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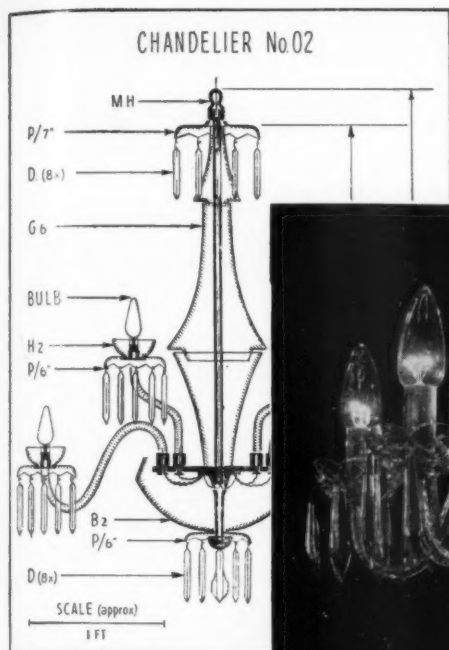
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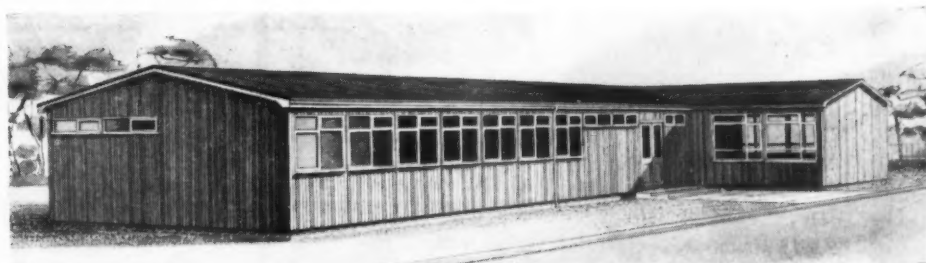


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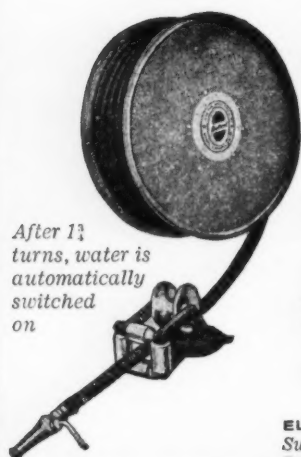
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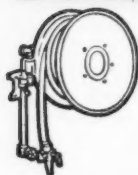
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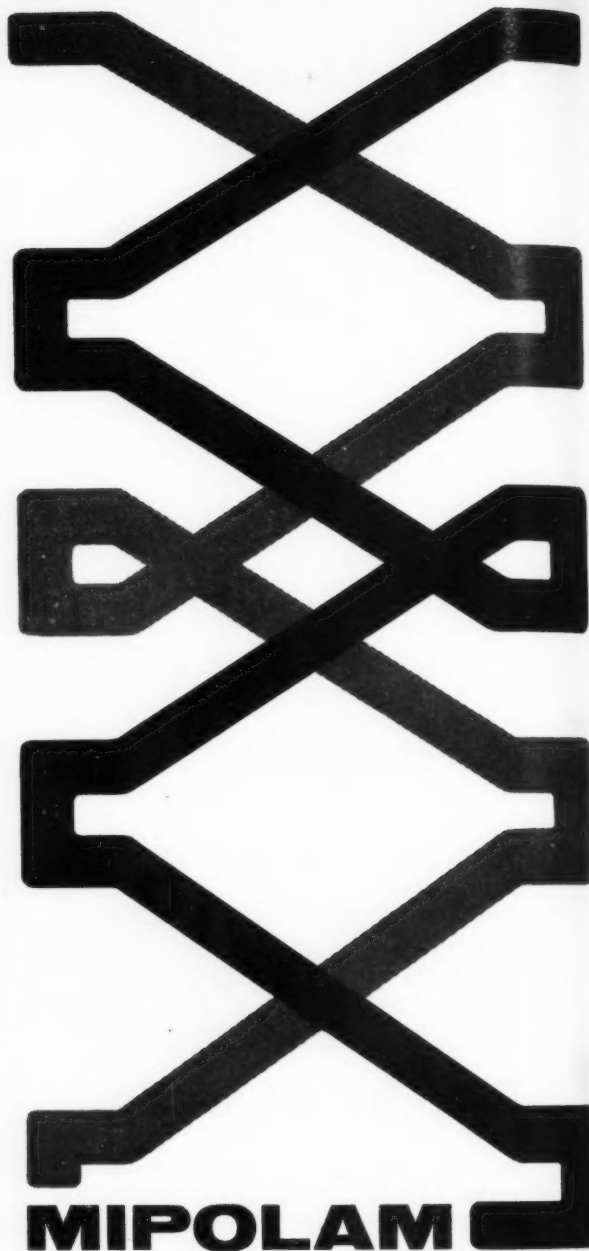
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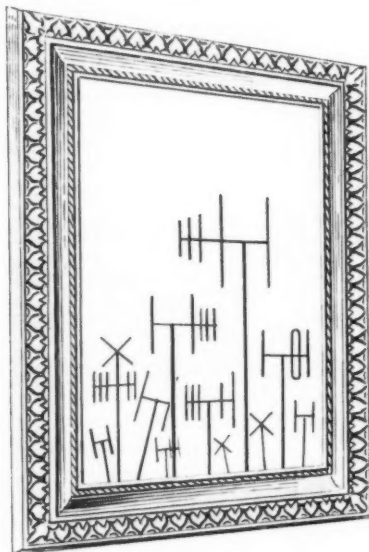
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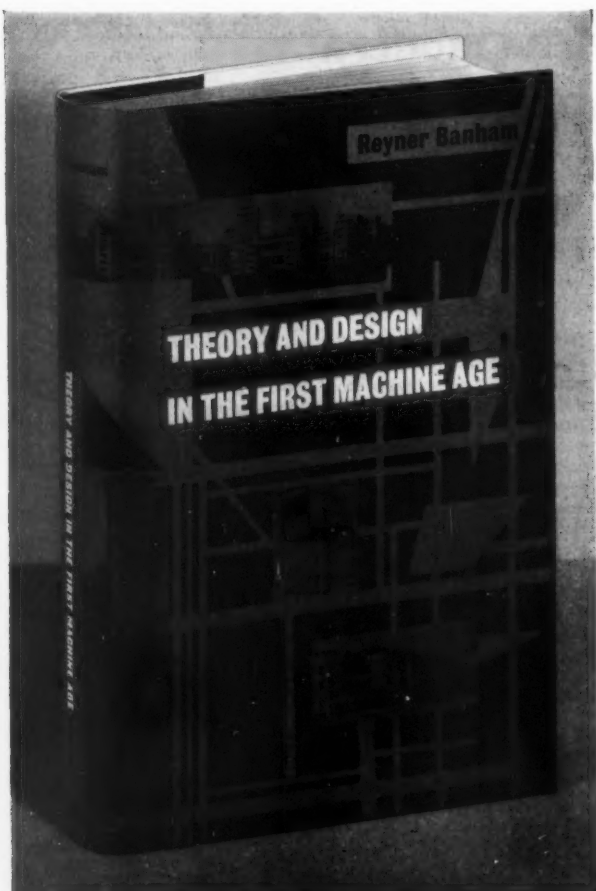
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CLASSIFIED ADVERTISEMENTS

Owing to the Whitsun holiday the issue of June 9th will go to press one day earlier than usual. All advertisements for this issue must reach the publishers not later than first post Thursday, June 2nd.

Advertisements should be addressed to the Advertisement Manager, "The Architects' Journal," 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post Friday morning for inclusion in the following Thursday's paper.

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

AIR-MAIL SERVICE available on request. In response to requests from a number of Overseas subscribers for air-mail delivery of Public and Official Appointment details and Other Appointments Vacant, we have been pleased to arrange that cuttings of all such classified advertisements appearing in the A.J., shall be despatched by air-mail on Wednesday of each week (one day prior to A.J. publication date). The cost of this special service to Overseas subscribers will be 5s. for four weeks (1s. 3d. for each additional week) and prepayment should be sent by subscribers wishing to take advantage of this service. The charge we are making represents only the actual cost of the postage involved.

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LONDON COUNTY COUNCIL

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APPLICATIONS

State age and give full details of training and experience to Mr. E. Bedford, C.B., C.V.O., F.R.I.B.A., Chief Architect, Ministry of Works (P), Room 427, Abell House, John Islip Street, London, S.W.1. 1256

EAST SUSSEX COUNTY COUNCIL

Applications are invited for the appointment of an ASSISTANT ARCHITECT Special Grade, £785-£1,070, on the permanent staff of the Architect's Department.
Applications, giving the names of two persons to whom reference may be made to be sent to the County Architect, County Hall, Lewes, by the 8th June, 1960. 1331

COUNTY BOROUGH OF SOUTH SHIELDS ASSISTANT ARCHITECTS

Applications are invited for Assistant Architects in the Borough Engineer's Department. Salary will be in accordance with Grades A.P.T. 1/88 (£610-£1,070). Placing within these grades will be in accordance with experience.
Housing accommodation may be made available to successful applicants if necessary.

The successful applicants will be required to pass a medical examination for superannuation purposes.

Application forms can be obtained from the Borough Engineer's Department, Town Hall, South Shields and should be returned by 10 a.m. on Thursday, 9th June, 1960.

R. S. YOUNG,
Town Clerk.
9991

BOROUGH OF NUNEATON ARCHITECTURAL ASSISTANT

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The post is suitable for a recently qualified person and will provide scope and opportunity for a varied experience as the Borough Council have much architectural work in hand.

Further details and forms of application, which must be returned not later than the 4th June, 1960, may be obtained from me.

A. A. CRABTREE,
Town Clerk.

Council House,
Nuneaton.
May, 1960. 1273

BOROUGH OF SOLIHULL APPOINTMENT OF ARCHITECTURAL ASSISTANTS

Applications are invited from Architects with suitable qualifications and experience for the under-mentioned appointments:—

(a) SENIOR ASSISTANT ARCHITECT—A.P.T. Grade V (£1,220-£1,375 per annum).

(b) ASSISTANT ARCHITECT—A.P.T. Grade II (£765-£880 per annum).

The Borough which has a population of approximately 90,000 and which is still expanding rapidly is an excepted district for education and has been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital works to be undertaken in the very near future.

The appointments will be subject to satisfactory medical reports, the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to one month's notice in writing on either side.

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Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of two referees, should be submitted to the Borough Surveyor, 90, Station Road, Solihull, not later than 31st May, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warks. 1223

WARWICKSHIRE COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

(a) DEPUTY GROUP ARCHITECT, GRADE A.P.T. IV-V (£1,065-£1,375).

Applications are invited from qualified and experienced architects for this post, which is one of the groups handling projects for the Council's major building programme.

The post is one of responsibility requiring a high degree of initiative and design ability in up-to-date forms of construction, materials, costs, job planning and organisation.

The successful applicant will also be expected to deputise generally for the group architect.
(b) ARCHITECTS, SPECIAL GRADE (£785-£1,070).

Applications are invited from architects who have passed Part I and II of the R.I.B.A. Final or Special Examination or their equivalent at one of the recognised schools of architecture. The successful applicants will work in groups on large projects, and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group architect.

(c) ARCHITECTURAL ASSISTANTS, GRADE A.P.T. II (£765-£880).

Vacancies exist for assistants who are up to Intermediate R.I.B.A. standard and who require experience in a variety of interesting projects.

The commencing salary can be within the grade according to ability and experience. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers.

Application forms and full conditions applicable to the appointments can be obtained from Eric Davies, F.R.I.B.A., A.M.P.T.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
May, 1960. 1177

CITY AND COUNTY OF NEWCASTLE UPON TYNE

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Applications are invited for the appointment of DEPUTY CITY ARCHITECT at a salary of £1,953 6s. 8d. per annum, rising by three annual increments to a maximum of £2,176 13s. 4d. per annum.

Applicants must be Members of the Royal Institute of British Architects, and should have had wide experience of the architectural work of a Local Authority, including Housing, Educational and other Public Buildings.

The appointment will be subject to the National Conditions of Service as adopted by the City Council, to the provisions of the Local Government Superannuation Acts, 1937-1953, and to three months' notice on either side. The successful candidate will be required to pass a medical examination.

Application forms and full particulars may be obtained from George Kenyon, A.R.I.B.A., A.M.P.T.I., City Architect, 18, Cloth Market, Newcastle upon Tyne, 1, to whom they must be returned, endorsed "Deputy City Architect," on or before MONDAY, 20th JUNE, 1960.

Canvassing in any form will be a disqualification.

JOHN ATKINSON,
Town Clerk.

Town Hall, Newcastle upon Tyne, 1.
12th May, 1960. 1267

METROPOLITAN BOROUGH OF HACKNEY ASSISTANT ARCHITECT OR ARCHITECTURAL ASSISTANT

ENGINEER AND SURVEYOR'S DEPARTMENT

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Application forms obtainable from the Town Clerk, Town Hall, Hackney, E.8, returnable by 9 a.m., 7th June, 1960. 1241

COUNTY BOROUGH OF SOUTHAMPTON BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

Applications are invited for the following appointments:

(a) ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065/£1,220). Applicants must hold the qualification A.R.I.B.A. and have had wide experience in housing design and construction, including multi-storey flats and shopping centres, in connection with redevelopment schemes in urban areas.

(b) ASSISTANT ARCHITECT within the grading for Special Classes of Officers (£785/£1,070) according to experience and qualifications (a commencing salary of £950 is envisaged). Applicants must have passed Parts I and II of the R.I.B.A. final examination and have had experience in housing design and construction and estate layout.

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765/£880). Applicants are required to have passed the intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture, and preferably have had experience in local government housing.

(d) ASSISTANT QUANTITY SURVEYOR, Grade A.P.T. IV (£1,065/£1,220). Applicants must be fully qualified chartered quantity surveyors, preferably with wide experience in municipal housing, including multi-storey flats and shopping centres.

The appointments are subject to N.J.C. conditions of service.

Housing accommodation available in approved cases and approved removal expenses reimbursable up to a maximum of £50.

Apply on application forms obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, returnable by Tuesday, 7th June, 1960. 1234

WIDNES CORPORATION

BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the appointment of SENIOR ARCHITECT, Grade A.P.T. V (£1,220-£1,375). The duties of the post will include work in connection with a varied Housing, Education and general programme, including a College of Further Education, Secondary Grammar and Modern Schools, Municipal Offices, and Olive Centre.

Five-day week; housing accommodation to rent or lodging allowance in lieu for married applicants; removal expenses in full; Superannuation Scheme. Candidates must be associate members of the R.I.B.A. and suitably experienced.

Applications, quoting two referees, by 6th June, 1960, to Borough Architect, Brendan House, Widnes.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
10th May, 1960. 1218

HOSPITAL DESIGN

APPOINTMENT OF ARCHITECTS

NORTH WEST METROPOLITAN REGIONAL HOSPITAL BOARD

(Regional Architect: F. A. C. Maunder, R.S., Dip. Arch., F.R.I.B.A. A.M.T.P.I.)

For many years the hospital building programme has been impeded by lack of finance. The position has now changed, and the capital programme in this region which extends for about 50 miles north and west of London, has been greatly expanded. The programme already includes complete new hospitals, and there are likely to be more in the years to come. This country is able to benefit from the experience of other countries, whose hospital building programmes have so far been ahead, and the opportunity which now arises to lead the world in this field of design could scarcely be surpassed.

The Board's architectural staff is being increased to meet the need for expansion, and the Board are seeking both senior and newly-qualified architects. Planning a new major hospital, which is virtually a self-contained community, or integrating the new with the old calls for imagination and a wide range of architectural skills, and those with ability who become experienced in this work are assured of a successful career whether they remain in official or transfer to private practice at home or abroad. The Hospital architect is required to integrate landscape, furnishing and works of art, in the comprehensive design of future hospitals, and consultant specialists will be appointed as required.

Architects in the more senior grades will be required to travel at home or abroad to study hospitals and other noteworthy architecture at the expense of the Board and without prejudice to annual leave. Other grades will be encouraged and assisted to study and travel appropriately. The work of all officers will be duly acknowledged professionally.

The Board's Architect's Department, since it was established in 1948, has acquired a specialised knowledge which it can pass on to new entrants of talent and initiative. The Department is being re-organised to provide for an *administrative directorate of three*, under the Regional Architect. The Deputy Regional Architect will, in particular, promote and co-ordinate constructional design, and two senior Principal Assistant Architects will be responsible for the operational and technical management of the Department and external consultants.

Executive design will be delegated to two main architectural groups headed by Assistant Regional Architects, each assisted by two Principal Assistant executive architects. Each group will consist of about twenty architects and every member will have an opportunity for individual as well as group activity. There will be a designated architect or architects for each project, who will be joined in a professional consortium with a doctor, engineer and hospital administrator.

All posts are permanent and pensionable. The Board has modern offices and a five-day week is normally worked. Conditions of service are determined by a Whitley Council for professional and technical staff. It is hoped that successful candidates will take up their duties at an early date so that they may take part in organised courses of study and travel before the autumn.

APPLICATIONS ARE INVITED FOR THE FOLLOWING APPOINTMENTS. All applicants must be registered architects.

DEPUTY REGIONAL ARCHITECT: Salary £1,965 × 100 (4)—£2,365, plus £50 London Weighting. First or good second class graduate (or professional equivalent); must possess mature architectural experience, with special aptitude for applied design; have high administrative and organising ability, and preferably research experience (Ref. 818).

ASSISTANT REGIONAL ARCHITECTS (2): Salary £1,825 × 75 (2) × 100 (2)—£2,175 plus £50 London Weighting. High graduate or professional status in design; must provide creative leadership in the executive architectural groups, and will be responsible for projects of considerable magnitude. Particular skill in analytical and formative planning is essential. Previous hospital building experience is not essential (Ref. 819).

PRINCIPAL ASSISTANT ARCHITECTS (2): Salary £1,665 × 50 (1) × 75 (2) × 85 (2)—£2,035 plus £50 London Weighting. Good graduate or professional status. Must possess good all round ability and experience adequate to manage a project of up to £2M in value from inception to completion, with collaborative assistance in design, or a group of projects of equivalent value. Will work closely with an Assistant Regional Architect and be responsible for the work of an architectural group of about ten architects (Ref. 820).

SENIOR ASSISTANT ARCHITECTS: Salary £1,300 × 60 (5)—£1,600 plus £50 London Weighting. Good graduate or professional status, and at least three years' experience in architectural practice. Responsibility for executive work of an increasingly advanced order is offered to candidates with ability, initiative and ambition (Ref. 821).

ASSISTANT ARCHITECTS: Salary £905 × 35 (1) × 45 (6) × 50 (2)—£1,310 plus £40-£50 London Weighting. These posts offer excellent opportunity for young architects, including those just qualified, to enter this opening field of practice. There is ample opportunity to gain experience in a wide and absorbing range of work. Candidates of ability and especially those holding an honours degree should have no difficulty in obtaining early preferment in their career (Ref. 822).

APPLY, stating age, qualifications (with dates) and experience, with names of two referees, to the Secretary, North West Metropolitan Regional Hospital Board, 40 Eastbourne Terrace, London, W.2, by 13th June, quoting appropriate reference number. Candidates applying for more than one grade are asked to submit a separate application for each grade. Mr. Maunder will be pleased to answer telephone enquiries. AMB. 8011, Ext. 313.

THE SCHOOL OF ARCHITECTURE, TOWN PLANNING AND BUILDING KUMASI COLLEGE OF TECHNOLOGY, GHANA

Applications are invited for the following posts:—

- (a) SENIOR LECTURESHIP IN BUILDING TECHNOLOGY.
- (b) LECTURESHIP IN QUANTITY SURVEYING.

Applicants for post (a) should hold either Associateship of the Institute of Builders or Associateship of the Royal Institute of British Architects, and have had five years professional experience and at least five years teaching experience.

The College prepares students for examinations qualifying for the Licentiate of the Institute of Builders.

Applicants for post (b) should be Professional Associates of the Royal Institution of Chartered Surveyors (Quantity Surveying) and will be required to teach Quantity Surveying, Estimating and Valuation for the examinations of the R.I.B.A. and of the I.O.B. Teaching and/or professional experience is essential.

Contract appointments are normally for five years, and may be renewed. Three months' notice of resignation of an appointment is required on either side.

The contract salary scale for post (a) is £2,054 × £78—£2,522 per annum.

The contract salary scale for post (b) is £1,202 10s. × £65—£2,112 10s. per annum.

In addition children's allowances are paid up to a maximum of three, and a gratuity at the end of the contract at the rate of £150 for each year of satisfactory service. The entry point is fixed according to qualifications and experience.

The College is fully residential and members of staff are housed in pleasant modern bungalows on the spacious campus, climate and living conditions are good.

Annual leave with three free return passages in four years is granted to members of staff and their families.

Application forms and an Information Brochure may be obtained from the Assistant Registrar, Kumasi College of Technology, 29, Tavistock Square, London, W.C.1, who will also be glad to answer any questions about these appointments. The closing date for applications is mid-June.

1362

BOROUGH OF ROMFORD

Applications are invited for a post of PRINCIPAL ASSISTANT ARCHITECT within the salary range £1,250 to £1,405 per annum. Applicants must be fully qualified and must have at least three years' experience subsequent to qualification. Interesting and varied work available. In appropriate cases housing accommodation will be provided and removal expenses paid. "Essential User" car allowance. Five-day week.

Full particulars and conditions can be obtained from the Town Clerk, Town Hall, Romford, to whom applications for the appointment are to be sent by the 6th June.

1361

COUNTY COUNCIL OF THE STEWARTRY OF KIRKCUDBRIGHT

Applications are invited from (a) Associates R.I.B.A. for posts of ASSISTANT ARCHITECTS (salary up to £1,075 per annum according to experience) and from (b) others, preferably having passed the Intermediate R.I.B.A., for posts of ARCHITECTURAL ASSISTANTS (salary £605 to £735 per annum with placing according to qualifications and experience) for responsible work on Schools and Houses, in a pleasant maritime county in the South of Scotland. Car Allowances payable; car purchase scheme available; five-day week.

Applications giving age, qualifications and details of previous experience and the names and addresses of two referees, to be lodged with the County Clerk, County Offices, Kirkcudbright, not later than 11th June, 1960.

1349

CHESTERFIELD RURAL DISTRICT COUNCIL

Applications are invited for the appointment of Planning Assistant, A.P.T. IV (£1,065—£1,220). Commencing salary according to qualifications and experience. Essential user car allowance for Class I car.

Housing accommodation will be provided in appropriate cases. Household removal expenses will be paid.

Applicants should have passed the Final Examination of the Town Planning Institute and an Architectural qualification would be an advantage.

The Council has a population of 95,620 and is now to exercise additional functions under the Town and Country Planning (Delegation) Regulations, 1959. Part of the district is in the Peak National Park.

Any further information may be obtained from Mr. J. B. Wikeley, M.Eng., M.I.C.E., Barrister at Law, Engineer and Surveyor.

Application, with the names of two referees, to reach the undersigned by 1st June, 1960.

H. O. HAWKINS,
Clerk of the Council.

Rural Council House,
Saltergate,
Chesterfield.

1341

LONDON COUNTY COUNCIL

ARCHITECTS (up to £1,135) (under review) required for Housing, Schools, General and Special Works Divisions. Full and varied programme of new work including schools, multi-storey flats and Town Development. Starting salaries according to qualifications and experience.

Particulars and application form from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/AJ/496/5a), County Hall, S.E.1.

9075

COUNTY BOROUGH OF SOUTHEAST-ON-SEA

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

ASSISTANT ARCHITECT, Special Classes Scale (£765 × £40 (6) × £45—£1,070).

TECHNICAL ASSISTANT (ARCHITECTURAL), Grade A.P.T. II (£765 × £25 (1) × £30 (3)—£880).

ASSISTANT QUANTITY SURVEYOR, Special Classes Scale (£785 × £40 (6) × £45—£1,070).

A flat is available for a suitable candidate.

Candidates must be suitably qualified and experienced.

The appointments will be subject to the provisions of the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service so far as adopted by the Council. Medical examination.

Applications, stating age, qualifications and experience, with the names of two referees, should be submitted to the Borough Architect, 30, Alexandra Street, Southend-on-Sea, forthwith.

Canvassing will disqualify. Any candidate who is related to member or officer of the Council is required to disclose the fact.

ARCHIBALD GLEN,
Town Clerk.

1347

Applications are invited for the post of ASSISTANT ARCHITECT in the office of the Architect, Eastern Region at King's Cross Station. Applicants should be qualified or have passed the Intermediate examination with some years' practical experience. The office is engaged on a wide range of existing buildings and gives responsibility for design, administration and site supervision to those with ability. Salary range £875 to £948 p.a. Modern working conditions, five-day week, rail travel concessions. Apply in writing to the Architect, British Railways, King's Cross Station, London, N.1.

1368

MANCHESTER REGIONAL HOSPITAL BOARD

ARCHITECTURAL SURVEYING AND ENGINEERING STAFF

A substantial expansion of the hospital capital building programme offers valuable opportunities to ambitious Architects, Surveyors and Engineers. Vacancies exist in the following posts:—

(a) ASSISTANT REGIONAL ARCHITECT, £1,825—£2,175 a year.

(b) PRINCIPAL ASSISTANT ARCHITECTS (Scale 1D), £1,655—£2,035 a year.

(c) SENIOR ASSISTANT ARCHITECTS, SENIOR ASSISTANT QUANTITY SURVEYORS, £1,300—£1,600 a year.

(d) ASSISTANT ARCHITECTS, ASSISTANT SURVEYORS (LAND AND QUANTITY), £905—£1,310 a year.

(e) ARCHITECTURAL ASSISTANTS, SURVEYING ASSISTANTS (LAND AND QUANTITY), £625—£900 a year.

(f) ARCHITECTURAL DRAUGHTSMEN, £475—£685 a year.

(g) ENGINEERS (ELECTRICAL, MECHANICAL, AND HEATING AND VENTILATING), £910—£1,600 a year.

(h) ENGINEERING ASSISTANTS, ENGINEERING DRAUGHTSMEN, £600—£1,070 a year.

Candidates for posts under (a), (b), (c), (d) and (g) should possess full professional qualifications and for posts under (e) and (h) Intermediate qualifications. Architectural draughtsmen must have had at least three years' previous experience. All posts superannuable. Application forms, obtainable from the Secretary, Manchester Regional Hospital Board, Cheetwood Road, Manchester, 8, should be returned by 30th June, 1960.

1354

BOROUGH OF SWINDON

SENIOR TOWN PLANNING ASSISTANT GRADE A.P.T. IV (£1,065—£1,220)

Applications are invited for the above appointment in the Borough Surveyor and Planning Officer's Department.

The Borough is expanding rapidly under the Town Development Act, and there is considerable scope for imaginative and skilful planning work—both in the layout of the large open areas earmarked for industrial and residential development about to proceed, and in the town centre, which is being extensively remodelled and developed on pedestrian way lines for shopping.

Candidates should have had suitable experience and have passed the final examination of the Town Planning Institute. The commencing salary will be in accordance with actual qualifications and experience.

A five-day week is in operation. Housing accommodation will be offered to married candidates from other areas, and assistance towards removal expenses will be granted.

Applications on forms to be obtained from the Town Clerk, Civic Offices, Swindon, must be returned not later than Wednesday, 8th June, 1960.

1433

BOROUGH OF WEMBLEY

APPOINTMENT OF ASSISTANT ARCHITECT (Special Classes £785—£1,070 plus London Weighting Allowance)

Applications are invited from suitably qualified persons.

Forms of application, returnable by 6th June, 1960, are obtainable from the Borough Engineer and Surveyor, Town Hall, Wembley.

Housing accommodation cannot be provided.

N. CUMPTSKY,
Town Clerk.

Town Clerk's Office,
Town Hall,
Wembley.

19th May, 1960.

1403

LONDON COUNTY COUNCIL QUALIFYING EXAMINATION FOR THE OFFICE OF DISTRICT SURVEYOR

An examination for the certificate of proficiency to perform the duties of district surveyor will be conducted in London in the week commencing 10th October, 1960. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,850 to £3,000 a year) or as Assistant District Surveyor (present salary scale £1,295 to £1,535 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EK/AJ/1008/4), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st September, 1960.

9743

NOTTINGHAMSHIRE COUNTY COUNCIL COUNTY ARCHITECT'S DEPARTMENT

APPOINTMENT OF QUANTITY SURVEYORS

Applications are invited from suitably qualified persons for the following posts:—

SENIOR QUANTITY SURVEYOR A.P.T. Grade V, £1,220—£1,375 per annum.

ASSISTANT QUANTITY SURVEYOR A.P.T. Special Scale, £785—£1,070.

QUANTITY SURVEYOR'S ASSISTANT, A.P.T. Grade I, £610—£765.

Applicants for the first two posts must be Chartered Quantity Surveyors (A.R.I.C.S.) with experience in taking off quantities, site measurements, interim certificates and final accounts. For the third post applicants should have passed the Intermediate Examination of the R.I.C.S.

Forms of application from W. D. Lacey, County Architect, County Hall, West Bridgford, Nottingham, to whom they should be returned as soon as possible.

A. R. DAVIS,
Clerk of the County Council.

1431

HORNCHURCH URBAN DISTRICT COUNCIL ENGINEER AND SURVEYOR'S DEPARTMENT

APPOINTMENT OF ARCHITECTURAL ASSISTANT SPECIAL GRADE (£785—£1,070)

Applications are invited for the appointment of Architectural Assistant at a salary in accordance with Special Grade (£785—£1,070). In addition, an amount equivalent to that of London Weighting will be paid.

Candidates for this post should have passed the Final Examination of the R.I.B.A.

Applicants should state whether or not they require housing accommodation.

The appointment will be subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the passing of a medical examination.

Application forms may be obtained from and returned to the undersigned not later than 3rd June, 1960.

F. L. COX,
Clerk of the Council.

Council Offices.

Billet Lane.

Hornchurch, Essex.

16th May, 1960.

1430

METROPOLITAN BOROUGH OF BERMONDSEY

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT

ASSISTANT ARCHITECT

Applications are invited from Chartered Architects for the permanent appointment of Assistant Architect, Grade A.P.T. II-IV (salary range from £880—£1,220 per annum) plus London Weighting, commencing salary according to experience and qualifications. Applications on forms from the undersigned to be returned by not later than 17th June, 1960.

J. S. LAMBERT,
Town Clerk.

Municipal Offices,

Spa Road,

London, S.E.16.

1425

NORFOLK EDUCATION COMMITTEE

Applications are invited for the post of ASSISTANT ARCHITECT. Salary in accordance with A.P.T. Grade IV (£1,065 × £55 × £50 (2)—£1,220).

Candidates should be qualified architects and have experience in the planning and erection of large buildings.

Forms of application from the undersigned to be returned within 14 days of the date of this advertisement.

F. LINCOLN RALPHS,
Chief Education Officer.

County Education Office,

Stracey Road,

Norwich.

1422

HATFIELD RURAL DISTRICT COUNCIL

Applications are invited for the following appointments:—

(a) ARCHITECTURAL ASSISTANT, Grade A.P.T. III, applicants should have passed the intermediate examination of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. I, applicants should have had suitable training and experience.

The appointments will be subject to the usual Local Government conditions of service and to one month's notice on either side.

Summary Form from and application to Engineer & Surveyor, 82, Great North Road, Hatfield, not later than 13th June, 1960.

S. JAGO,
Clerk of the Council.

Council Offices,

16, St. Albans Road,

Hatfield, Herts.

1414

ELSTREE RURAL DISTRICT COUNCIL APPOINTMENT OF TEMPORARY ARCHITECTURAL ASSISTANT

Applications are invited for the above temporary appointment in the Department of the Engineer & Surveyor, for a period of not less than two years, on work in connection with the design and erection of a proposed Public Hall, Covered Swimming Pool and other Civic Centre buildings.

Salary within Special Grade £785 to £1,070 per annum (plus London weighting—maximum £45); commencing salary to be determined according to experience.

Candidates should have passed the Final Examination of the R.I.B.A. or equivalent.

The appointment will be subject to the National Scheme of Conditions of Service; the provisions of the Local Government Superannuation Acts, 1937-1953, and will be determinable by one month's notice, in writing, on either side. The successful candidate will be required to pass a medical examination.

Relationship to any member or Officer of the Council must be disclosed and canvassing directly or indirectly will disqualify.

Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be sent in an envelope endorsed "Architectural Assistant" so as to reach the Engineer & Surveyor at these offices not later than Friday, 3rd June, 1960.

A. LANCASHIRE,

Clerk of the Council.

Council Offices,
Shenley Road,
Boreham Wood, Herts.
10th May, 1960.

1211

COUNTY BOROUGH OF SOUTHAMPTON BOROUGH ARCHITECT'S DEPARTMENT Applications are invited for the permanent post of SENIOR ASSISTANT PLANNING OFFICER, Grade IV (£1,065-£1,220).

Applicants should be Members of T.P.I. and hold a qualification in Landscape Architecture. Successful applicant to be in charge of small landscape group in the planning section, with considerable opportunity for preparing and carrying through schemes of urban landscaping.

HOUSING ACCOMMODATION available in approved cases and approved removal expenses reimbursed up to a maximum of £50.

Commencing salary within grade according to experience and qualifications.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 13th June, 1960.

1384

CITY OF CANTERBURY

ASSISTANT ARCHITECT.—A vacancy exists in the City Architect's Department. Commencing salary within the grade £765-£1,070, according to qualifications and experience.

Applicants should have had varied experience and be capable of good detailing and presentation.

Housing accommodation will be made available, if required.

Applications, with the names of two referees, must reach the City Architect & Planning Officer, John L. Berbers, F.R.I.B.A., A.M.T.P.I., not later than 3rd June, 1960. Canvassing will disqualify.

J. BOYLE,

Town Clerk.

Municipal Buildings,
Canterbury.

1192

CITY OF LEEDS

CITY ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

1. SENIOR ASSISTANT ARCHITECT, Grade A.P.T. V. Salary scale, £1,220-£1,375.
2. SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. IV. Salary scale, £1,065-£1,220.
3. ASSISTANT ARCHITECTS, Grade A.P.T. III. Salary scale, £880-£1,065.
4. ASSISTANT ARCHITECTS, Grade A.P.T. II. Salary scale, £765-£880.
5. ARCHITECTURAL ASSISTANTS, Grade A.P.T. I. Salary scale, £610-£765.
6. ASSISTANT QUANTITY SURVEYOR, Grade A. P. T. III. Salary scale, £880-£1,065.
7. JUNIOR ASSISTANT QUANTITY SURVEYOR, Grade G.D. Salary scale, Max. £595.

Applicants for posts 1 and 2 should be fully qualified and members of the R.I.B.A.

Applicants for posts 3 and 4 should preferably have passed the intermediate R.I.B.A. examination.

In addition to large annual programmes for both housing, including multi-storey dwellings and schools, a number of interesting projects are likely to be carried out in the near future, e.g. public baths, abattoir and meat markets, fruit and vegetable markets, Civic Hall extensions, branch colleges and hostels.

Architects are required to design and work on these projects. Applicants will be considered on their capacity for design, experience, contemporary outlook and suitability.

The appointments are superannuable—medical examination.

The closing date for receipt of applications is the 18th June and these are to be sent to the City Architect, Priestley House, Quarry Hill, Leeds, 9.

Canvassing disqualifies.

J. R. SHERIDAN-SHEDDEN,

City Architect.

Priestley House,
Quarry Hill,
Leeds, 9.

19th May, 1960.

1394

BOROUGH OF LEYTON (in the County of Essex) COMMITTEE FOR EDUCATION APPOINTMENT OF ARCHITECTURAL ASSISTANT

Applicants are invited for the permanent appointment of Architectural Assistant, Grade A.P.T.II £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer & Surveyor's Department, Town Hall, Leyton, E.10: five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale Road, Leytonstone, E.11, to whom they should be returned within 10 days from the appearance of this advertisement.

D. J. OSBORNE,

Town Hall,
Leyton, E.10.

Town Clerk.

1382

CITY ARCHITECT'S OFFICE MANCHESTER

Applications invited for the following appointments on the Permanent Staff:—

(a) ASSISTANT SENIOR BUILDING SURVEYOR. Salary A.P.T.III £980-£1,065. Applicants must be conversant with the Model Building Byelaws; should have passed the Building Surveyors Examination of the R.I.B.A., or hold equivalent qualifications. The duties will be mainly the examination of plans submitted for consideration under the building byelaws. Housing accommodation for a limited period may be provided.

(b) ASSISTANT QUANTITY SURVEYOR, salary Special Grade £785-£1,070. Candidates must have experience in the preparation of Bills of Quantities and Specifications, interim valuations and settlement of final account for all classes of building work.

For both appointments removal expenses allowed. Five-day week.

Forms of application from the City Architect, P.O. Box 488, Town Hall, returnable by 7th June, 1960.

1387

ARCHITECTURAL ASSISTANT

Applications are invited from suitably qualified persons for the above post which is on the staff of the Board's Architect. The Department is engaged on an extensive programme of new industrial and commercial building, interior design, showrooms and exhibition work, and offers the opportunity of working on unique projects in commercial and industrial design. The salary for the appointment, which is pensionable and subject to medical examination, will be within the range of £946-£1,071 per annum.

Applications, stating age, qualifications and experience, together with the names of two referees, should be addressed to the Industrial Relations Officer, West Midlands Gas Board, 6, Augustus Road, Edgbaston, Birmingham, 15.

1383

ISLE OF ELY COUNTY COUNCIL COUNCIL ARCHITECT'S DEPARTMENT

Applications are invited for the following appointments:—

- (a) SENIOR ASSISTANT ARCHITECTS A.P.T.V £1,220-£1,325. Applicants must be A.R.I.B.A. with experience. Terms of appointment include Essential User Car Allowance on the County scale for a car not exceeding 1,199 c.c.
- (b) ASSISTANT ARCHITECTS Special Grade £785-£1,070. Applicants should be A.R.I.B.A. or have completed Parts I and II of the R.I.B.A. Final examination, or have satisfactorily completed a course at a School of Architecture.
- (c) ARCHITECTURAL ASSISTANTS.

A.P.T.I-£610-£765.

or

A.P.T.II-£765-£880

or

A.P.T.III-£880-£1,065.

The County Council has an extensive programme of work for Education, Social Welfare and other buildings. The scope offered will depend solely on the efforts and ability of the persons appointed.

Application forms and further particulars from the County Architect, County Hall, March, Cambs., to whom they should be returned not later than Monday, 13th June, 1960.

R. F. G. THURLOW,

Clerk of the County Council.

1388

CITY OF ST. ALBANS

BUILDING INSPECTOR

Applications are invited for the appointment of Building Inspector in the City Engineer and Surveyor's Department. Established post on Grade A.P.T. III (£880-£1,065) with essential car user allowance in accordance with N.J.C. scale.

The applicants should have had experience in a similar capacity with a Local Authority, have a good knowledge of building construction and practice, be capable of examining and reporting on deposited plans and hold an appropriate qualification of a recognised professional body.

Housing accommodation available if required. Applications stating age, qualifications and experience, together with the names of two persons to whom reference can be made must reach me not later than 1st June, 1960.

E. V. ENTNISTLE,

Town Clerk.

Town Clerk's Office,
38, St. Peter's Street,
St. Albans

1333

LEEDS REGIONAL HOSPITAL BOARD Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. Salary scale £905/£1,310 per annum. Candidates should be Associate Members of the R.I.B.A.

(b) ARCHITECTURAL ASSISTANTS. Salary scale £625/£900 per annum. Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had previous drawing office experience.

(c) ASSISTANT QUANTITY SURVEYORS. Salary scale £905/£1,310 per annum. Candidates should be Associate Members of the R.I.C.S.

(d) QUANTITY SURVEYOR'S ASSISTANT. Salary scale £625/£900 per annum. Candidates should have had some previous office experience.

It should be noted that the salaries quoted above are effective from 1st July, 1960.

The establishment of the Board's architectural staff is being reviewed to meet the substantial expansion in the hospital building programme and further vacancies in all grades will be advertised in due course. The above architectural posts will provide young architects with opportunities to gain experience in the design and erection of good quality buildings.

The Board's offices are in Harrogate in pleasant surroundings and an excellent canteen is available on the premises.

Applications stating age, qualifications and experience together with the names and addresses of two referees to the Secretary, Park Parade, Harrogate, by 8th June, 1960.

1386

CITY OF CHICHESTER

SENIOR ASSISTANT

Applications are invited from Chartered Architects or Chartered Surveyors for this appointment at a salary within the Grade for Special Classes of Officers (£785-£1,070). The person appointed will be responsible to the City Surveyor for the design of new council houses and other work connected with housing and housing estate layout. He must have a complete knowledge of building construction, experience in design, and be fully competent to arrange and supervise building contracts. The Corporation retains the services of a firm of Chartered Quantity Surveyors and employs a Clerk of Works.

The appointment will be in accordance with the National Conditions of Service, and terminable by one month's notice on either side.

Temporary housing accommodation will be provided, if required.

Applications on forms, obtainable from the City Surveyor at Greyfriars, North Street, Chichester, must be returned to me by 10th June, 1960.

ERIC BANKS,

Town Clerk.

1437

THE UNIVERSITY OF SOUTHAMPTON (Amended advertisement following recent national salary increases for University Staff)

Applications are invited from suitably qualified persons for the post ASSISTANT WORKS AND BUILDINGS OFFICER. Salary Scale £1,050-£1,250 plus Family Allowance of £50 per annum for each dependent child. F.S.S.I. Duties will cover wide variety of interesting activities connected with the University's building programme, planning of services, and general architectural work of the type carried out by a staff architect in a large organisation. Experience in contemporary design, detailing, supervision of building work and administration essential. Further particulars from the Secretary and Registrar, to whom applications (6 copies) containing names of three referees should be sent not later than 20th June, 1960.

1442

ST. HELENS EDUCATION COMMITTEE APPOINTMENT OF TECHNICAL ASSISTANT (ARCHITECTURAL)

Applications are invited for the post of Technical Assistant (Architectural) in the office of the Education Building Surveyor. This is a newly created post and will offer opportunities for interesting work on school minor projects. Applicants should have had drawing office experience in an architectural office and be suitably qualified.

Salary within the Special Grade of the A.P.T. Division (i.e. £785-£1,070). The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Further particulars and application forms may be obtained from the undersigned and should be returned not later than 18th June, 1960. Canvassing will disqualify.

N. F. NEWBURY,

Director of Education.

Education Office,
St. Helens.

1392

AIR MINISTRY require Junior and Senior WORKERS UP in Quantities Division in London. Must be fully experienced and competent to work up entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualification.

Further assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 13 days paid leave a year initially. Salary ranges (Junior) from £720 (at age 26) to £900 and (Senior) £794 (at age 26) to £1,065. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to the Financial

(P.E.1234). Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon Street, London, E.C.4. No original testimonials should be sent.

9542

UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG LECTURER IN DEPARTMENT OF ARCHITECTURE AND QUANTITY SURVEYING

Applications are invited for appointment to a vacant post of Lecturer in Architecture.

The successful candidate must be, or must undertake to become a member of the Institute of South African Architects and must have good experience of architectural practice. Teaching experience will be an added recommendation.

The successful applicant must be able to lecture on aspects of architecture concerned with design and construction and to conduct practical study work in design.

Duties are to be assumed on 1st January, 1961, or as soon as possible thereafter.

The salary will be according to the scale £1,230 × 60—£1,710. A commencing salary above the minimum notch may be paid on the grounds of special qualifications or experience. In addition, the University is at present authorised to pay an annual vacation savings bonus of up to £60 in September each year.

Membership of the University Institutions Provident Fund is compulsory and involves a contribution at the rate of 7 per cent. of the substantive salary. Membership of the University Staff Medical Aid Fund is compulsory in the case of an officer who is found eligible in accordance with the rules of the Fund.

Applications giving full personal details of qualifications, experience and research work, if any should be lodged with the Registrar, University of the Witwatersrand, Milner Park, Johannesburg, South Africa, not later than 31st July, 1960. 1395

LANCASHIRE COUNTY COUNCIL COUNTY ARCHITECTS' DEPARTMENT

Applications are invited for the appointment of DEPUTY COUNTY ARCHITECT within the salary scale £2,852 to £3,352.

The establishment of the Department, now dealing with a varied and extensive building programme, is a large one, and the post of Deputy County Architect requires, in addition to a high standard of architectural design, first class administrative ability.

Application forms and details of the appointment are obtainable from C. H. Simmons, A.R.I.B.A., County Architect, County Hall, Preston, and must be returned not later than 1st June, 1960. 1306

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE

OFFICE OF THE COUNTY ARCHITECT

Applications are invited for the post of ARCHITECTURAL ASSISTANT—A.P.T. III, salary range £880—£1,065, in the Divisional Architect's Office at Wakefield.

Applications to be submitted by the first post on Tuesday, 14th June, 1960, on forms to be obtained from and returned to the undersigned. A. W. GLOVER, F.R.I.B.A., County Architect. 1342

BISHOPSTON, Westfield Road, Wakefield. 1412

HEREFORDSHIRE COUNTY COUNCIL

Applications are invited for the following posts:—

(a) THREE SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065 to £1,220 per annum). Must be A.R.I.B.A.

(b) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grades I (£510 to £765), II (£765 to £880), III (£880 to £1,065) or Special Scale (£785 to £1,070) according to ability, experience and qualifications. Prospect of immediate promotion to Grade IV on election A.R.I.B.A. in approved cases.

(c) ONE ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£510 to £765). Prospect of immediate promotion to Special Scale on passing Parts 1 and 2 of R.I.B.A. Final examination.

Superannuated posts, subject to medical examination and one month's notice, either side. Separation allowance to married men for limited period in certain cases (25s. per week and fare home every two months).

Interesting and varied programme. Five-day week.

Hereford is situated in the beautiful Wye Valley. Application forms from County Architect, Bath Street, Hereford, to be submitted by 15th June 1960. 1374

Please state clearly whether form for (a), (b) or (c) is required.

WORCESTERSHIRE COUNTY COUNCIL

Applications are invited for:—

(1) ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£880—£1,065) or Special Grade (£785—£1,070) according to qualifications and experience. The County Council may be able to assist with housing accommodation.

(2) TEMPORARY CLERK OF WORKS.

Application forms and further particulars should be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 2nd June, 1960. (Z139) 1265

BIRMINGHAM REGIONAL HOSPITAL BOARD

SURVEYING ASSISTANT (BUILDING). £625—£900.

To assist in survey of existing hospital buildings and preparation of record plans. Inter-R.I.C.S. (Buildings Division) essential. Must be neat draughtsman with experience in measurement and plotting of surveys to all scales. Superannable. Five-day week. Written applications (quoting Arch 4 naming two referees to Secretary, R.H.B., 10 Augustus Road, Birmingham, 15, by 7th June, 1960. 1276

COUNTY BOROUGH OF WOLVERHAMPTON

Applications are invited for the following appointments on the staff of the Borough Engineer and Planning Officer.

SENIOR PLANNING ASSISTANT. Within Special Grade according to qualifications and experience.

PLANNING ASSISTANT. Within Grade A.P.T. I according to experience.

Applications, with two names for reference, to the Borough Engineer and Planning Officer, Town Hall, Wolverhampton, by Friday 3rd June. 1432

COUNTY BOROUGH OF EAST HAM BOROUGH ENGINEER'S DEPARTMENT

Applications are invited for the following temporary appointment:—

SENIOR ASSISTANT ARCHITECT, Grade IV, £1,065—£1,220.

London weighting is paid in addition, and a salary in excess of the minimum may be paid according to qualifications and experience. The appointment is for work on a new Technical College and is expected to be for a period of not less than three years.

Further details and application forms returnable by 10th June, 1960, from the Town Clerk, Town Hall, East Ham, E.5. 1352

GLENROTHES DEVELOPMENT CORPORATION

Architects, with A.R.I.B.A., required for the design and construction of commercial and shopping premises, industrial buildings and housing. Salary grade rising to £1,375 per annum, with placing according to age and experience.

Houses to rent available if required. Medical examinations under Superannuation Scheme. Application forms from Secretary and Legal Adviser, Glenrothes Development Corporation, Glenrothes, Fife. 1284

CUMBERLAND COUNTY COUNCIL APPOINTMENT OF COUNTY ARCHITECT

Applications are invited for the appointment of County Architect for the Administrative County of Cumberland.

Salary within the scale £2,550 (1 × £115); (2 × £110)—£2,885 per annum.

Application forms, together with further details, may be obtained from the undersigned to be returned not later than Wednesday, 8th June, 1960.

G. N. C. SWIFT,
Clerk of the County Council. 1222

The Courts,
Carlisle.

10th May, 1960.

CITY OF NOTTINGHAM EDUCATION COMMITTEE

COLLEGE OF ART AND CRAFTS

Principal: ROBERT LYON, D.A.(Glas.), F.R.S.A.

Lecturer-in-Charge: D. S. KILMER.

Dipl.T.P.(Leeds), A.R.I.B.A., M.T.P.I.

Applications are invited for the full-time post of STUDIO INSTRUCTOR in the Department of Town and Country Planning, which is recognised for exemption from the Final Examination of the Town Planning Institute. Duties to commence as early as possible. Candidates should be corporate members of the Town Planning Institute and the Royal Institute of British Architects.

Salary: Borough Engineer's Department, Grade B. i.e. £700 × £27.10s.—£1,150 (men), and £630 × £22—£920, with equal pay increments (women), together with allowances, if appropriate, in respect of graduation, training, previous full-time teaching, approved professional experience, and/or war service.

Further particulars and application forms can be obtained from the Principal, College of Art and Crafts, Waverley Street, Nottingham, to whom the latter should be returned within 14 days of this advertisement.

W. G. JACKSON,
Director of Education. 1334

Education Office,
Exchange Buildings,
Nottingham.

ARCHITECTURAL ASSISTANT required by

UGANDA GOVERNMENT P.W.D. on contract for one tour of 20-36 months in the first instance.

Salary according to age and experience in scale (including Inducement Pay) £1,014 rising to £1,422 a year. Gratuity at rate of 13½% of total substantive salary drawn. Outfit allowance £30. Free passages. Liberal leave on full salary. Candidates under 35 must have passed Intermediate R.I.B.A. and have had good architectural experience.

Experience in tropical building problems an advantage. Write to the Crown Agents, 4, Millbank, London, S.W.1. State age, name in block letters, qualifications and experience and quote M2B/50878/AG. 1371

COUNTY BOROUGH OF SOUTHAMPTON BOROUGH ARCHITECT'S DEPARTMENT

Applications are invited for the following permanent posts:—

(a) DISTRICT BUILDING INSPECTOR, A.P.T. Grade II (£765—£880). Applicants should be experienced and hold a recognised Building Inspector's Certificate.

The post requires the use of a car for which an Essential User Car Allowance is payable.

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£510—£765).

Housing accommodation available in approved cases and approved removal expenses reimbursed up to a maximum of £50.

Commencing salary within grade according to experience and qualifications.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 6th June, 1960. 1332

KENT COUNTY COUNCIL

Applications are invited for appointment as ASSISTANT ARCHITECT in the office of the County Architect to assist with the Council's large and expanding building programme. Candidates must be Associates of the Royal Institute of British Architects and should possess design ability and also have experience in the control of building projects.

Salary on the scale £1,220—£1,375 a year. Commencing salary according to ability and experience. N.J.C. Conditions of Service. Further details and application forms from County Architect, Springfield, Maidstone. Closing date 8th June, 1960. 1365

GLOUCESTERSHIRE EDUCATION COMMITTEE

CHELtenham SCHOOL OF ARCHITECTURE PITTVILLE PUMP ROOM, CHELTENHAM

Head of School: IAN H. ASHOTT,
Dip.Arch.(Birm.) A.R.I.B.A.

The School has recently moved into studios on the upper floors of Pittville Pump Room—Cheltenham's finest Regency building—situated in Pittville Park. A vacancy has occurred on the full-time staff for a STUDIO INSTRUCTOR. Applicants for this post should hold recognised qualifications and should have had some years of professional experience.

Salary in accordance with the Burnham technical scale, Grade B—£700 × £27.10s. to £1,150 p.a., plus additions for appropriate training, qualifications and teaching or office experience. Further information can be obtained from the Head of the School, to whom application forms must be returned by Thursday, 16th June, 1960. 1363

EAST KILBRIDE DEVELOPMENT CORPORATION

ARCHITECTS AND ARCHITECT PLANNERS

Staff are required for the rapidly expanding programme of industrial and commercial development in this New Town. Work on the New Town Centre, in process of re-planning as a pedestrian precinct, includes the design of shops, offices and other town centre buildings. Extensive industrial projects involve the design of factories of all types and sizes. Neighbourhood development includes planning and architectural work and housing and shopping centres. The appointments offer excellent prospects for men with the necessary enthusiasm and imaginative ability to plan and carry out the extensive programme.

VACANCIES EXIST FOR: ARCHITECTS & ARCHITECT PLANNERS

£1,065—£1,220 per annum. Applicants should be A.R.I.B.A. with at least two years' experience subsequent to qualification. For the Architect/Planner posts, applicants should in addition be A.M.T.P.I.

ASSISTANT ARCHITECTS

£765—£880 per annum. The minimum qualification required is the Intermediate Examination of the R.I.B.A.

JUNIOR ASSISTANT ARCHITECTS

£610—£765 per annum. The minimum qualification required is probationer membership of the R.I.B.A.

Commencing salaries commensurate with qualifications and experience will be paid and appointments are subject to the Corporation's Conditions of Service and Superannuation Agreement. Five-day week. A house or flat will be made available if required. Selected candidates will be required to pass a medical examination before taking up their appointments. Application forms may be obtained from:

General Manager, East Kilbride Development Corporation, Torrance House, East Kilbride, Lanarkshire, for return not later than 17th June, 1960. 1307

METROPOLITAN BOROUGH OF GREENWICH APPOINTMENT OF JUNIOR ARCHITECTURAL ASSISTANT

Applications are invited for the position of Junior Architectural Assistant in the Borough Engineer and Surveyor's Department. Salary A.P.T. I (£610 to £765 per annum, plus London weighting), commencing salary in accordance with experience.

Preference will be given to applicants with experience of architectural drawing who have made suitable progress towards completion of the examination of the R.I.B.A. or R.I.C.S. Facilities available for study on one day per week.

Form of application obtainable from the undersigned and returnable by noon on Tuesday, 7th June, 1960.

G. C. TURK,
Town Clerk. 1379

Town Hall,
Greenwich, S.E.10

16th May, 1960.

HAMPSHIRE COUNTY COUNCIL

SENIOR PLANNING ASSISTANT, Special

Grade (£785—£1,070) required for pensionable post in Headquarters, Planning Department, Winchester, for work in connection with the preparation of Town Maps and the review of the County Development Plan. Candidates should be corporate members of the Town Planning Institute or other appropriate professional body, and have had previous planning experience. Commencing salary according to experience. Separation allowance and assistance with removal expenses in approved cases. Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names of two referees, should reach the Clerk of the County Council, The Castle, Winchester, by 8th June. 1411

**MIDDLESEX COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT**

The County Council has decided to enlarge substantially the staff of this department and it is proposed to make a number of appointments in each of the following grades:-

- ASSISTANT ARCHITECT, A.P.T. V, £1,220—£1,375, plus London weighting up to £45.
ASSISTANT ARCHITECT, A.P.T. IV, £1,065—£1,220, plus London weighting up to £45.
ASSISTANT ARCHITECT, Special Grade, £785—£1,070, plus London weighting up to £45.
JUNIOR ASSISTANT, A.P.T. I, £610—£765, plus London weighting up to £45.

The department has in hand a large and interesting programme of works for School Buildings, Technical Colleges, Old People's Homes, Fire Stations and other County Buildings which will be designed under the direction of Mr. Whitfield Lewis, F.R.I.B.A., the County Architect. Organisation is on a group basis and full scope will be given to Architects who show design ability.

Appropriate professional qualifications are required for all posts and commencing salaries will be assessed according to qualifications and experience. Appointments will be to the established staff subject to medical fitness, and prescribed conditions.

Application forms (s.a.e.) from The County Architect, 1, Queen Anne's Gate Buildings, Dartmouth Street, S.W.1 (s.a.e.), returnable by 13th June, (Quote C.585.AJ.) 1376

**HORNCHURCH URBAN DISTRICT COUNCIL
ENGINEER AND SURVEYOR'S DEPARTMENT
APPOINTMENT OF ARCHITECTURAL ASSISTANT**

Applications are invited for the appointment of Architectural Assistant at a salary in accordance with Grade A.P.T. II (£765—£880). In addition, an amount equivalent to that of London weighting will be paid.

Candidates should have passed the R.I.B.A. Intermediate examination and be studying for the Final.

Applicants should state whether or not they require housing accommodation.

The appointment will be subject to the Local Government Superannuation Acts, the National Scheme of Conditions of Service and the passing of a medical examination.

Application forms may be obtained from and must be returned to the undersigned not later than 3rd June, 1960.

P. L. COX,
Clerk of the Council.

Council Offices,
Billet Lane,
Hornchurch, Essex. 1434
16th May, 1960.

**BRAINTREE RURAL DISTRICT COUNCIL
(1) TEMPORARY ENGINEERING ASSISTANT
(2) TEMPORARY ARCHITECTURAL ASSISTANT**

The Council invite applications for the above posts at a salary in accordance with the Special Grade (£785 to £1,070 p.a.).

Applicants for post (1) must have passed the Final examination of the Institution of Municipal Engineers or equivalent, and be experienced in the preparation of sewerage schemes. For post (2) they must have passed the Final examination of the Royal Institute of British Architects or equivalent and be experienced in the preparation of housing schemes.

Applications stating post applied for, age, experience, qualifications and two references should reach me by the 1st June, 1960. Canvassing disqualifies.

V. YOUNG,
Clerk of the Council.

St. Peter's Close,
Bocking, Braintree, Essex. 1296

**ARCHITECTS
LONDON COUNTY COUNCIL
ARCHITECT'S DEPARTMENT
PLANNING DIVISION
DEPUTY TO THE
SENIOR PLANNING OFFICER
(new position)**

Applications invited for the above from town planners with a wide experience of urban planning with ability to lead and organise. The position calls for exceptional imagination and drive. The selected officer will have overall responsibility as deputy to the officer-in-charge of the Planning Division and in particular for those aspects of the work which have a strong architectural content including comprehensive development, detailed planning and applications from public and private developers. He will assist the Senior Planning Officer on organisation and staffing questions. The division consists of 245 professional and technical staff with administrative and clerical support.

Salary £2,400 to £2,700.
Reference EK/1261/AJ/5.

GROUP PLANNING OFFICER

Consequent on the formation of a central area group, applications invited from qualified planners with experience of leading a team in the planning of urban areas. Experience, initiative, drive and ability to lead a team of about 40 are essential.

Salary £1,850 to £2,150.
Reference EK/1262/AJ/5.

Application form, and particulars, returnable by June 15, 1960, from Hubert Bennett, F.R.I.B.A., Architect to the Council, County Hall, S.E.1, quoting reference number. 1314

**BLETCHLEY URBAN DISTRICT COUNCIL
APPOINTMENT OF ARCHITECTURAL ASSISTANT**

The Council is about to embark on the second stage of Town Development which will require the provision of some 1,500 dwellings of all kinds. Shops, Factories and Offices, as well as other associated buildings.

Applications are invited for an Architectural Assistant at a salary within Grade 2 of the A.P.T. Division of the National Scale of Salaries, and subject to one month's notice on either side and the Southern Provincial Council Scheme of Conditions of Service.

Applicants should have had a sound training in architectural work and have reached the Intermediate R.I.B.A. Standard.

Housing Accommodation will be provided, and if the successful candidate uses his own car in connection with his duties, an allowance will be made on the Casual Users' Scale, for a car not exceeding 1,014 cc.

Applications, stating details of age, qualifications, experience, present and past appointments, with the names and addresses of two persons to whom reference may be made, should be delivered to the undersigned by noon on Wednesday, June 1, 1960.

J. F. SMITHIE, M.I.Mun.E.,
Engineer and Surveyor.

Council Offices,
Bletchley,
May 16, 1960 1317

**QUANTITY SURVEYING ASSISTANTS
GRADE II
REQUIRED BY
AIR MINISTRY
IN THE PROVINCES**

Duties include abstracting and billing, site measurement and preparation of estimates. Candidates must hold O.N.C. (Building or Builders Quantities) or equivalent and have good experience under Quantity Surveyor or Building Contractor. Knowledge W.D. Schedule an advantage. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted. Salary ranges from £680 (at age 26) to £850. Commencing salary dependent upon age, qualifications and experience.

Applicants, who must be natural born British subjects, should write stating age, qualifications and previous appointments including type of work done, to Manager (P.E.2), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon Street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only applicants selected for interview will be advised. 1309

COUNTY BOROUGH OF SWANSEA

BOROUGH ARCHITECT'S DEPARTMENT
Applications are invited for the appointment of SENIOR ASSISTANT HEATING ENGINEER. Salary Grade A.P.T. V (£1,220 to £1,375).

Applicants should be Associate Members of the Institution of Heating and Ventilating Engineers and will be required to carry out the design, detailing and supervision of heating, hot water and ventilating installations for schools and other public buildings.

Candidates must be under 45 years of age unless in Local Government Service.

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

Forms of application may be obtained from the BOROUGH ARCHITECT, THE GUILDHALL, SWANSEA, to whom they must be returned not later than TUESDAY, JUNE 28, 1960.

Canvassing disqualifies.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea,
May 9, 1960. 1311

ROYAL COUNTY OF BERKSHIRE

ASSISTANT ARCHITECT, A.P.T. Grade V, £1,220 to £1,375. Candidates must be Associates of the R.I.B.A. and possess energy, ability and initiative. The office is engaged on all types of County buildings and owing to the rapid increase in population a very full programme lies ahead. The post will rank as second in a group of eight and opportunities for running contracts will be given.

There is a number of staff houses and flats, some of which become available from time to time, and assistance up to 75 per cent. is given with removal expenses.

Application forms and particulars of the Department can be obtained from J. T. Castle, A.R.I.B.A., A.M.T.P.I., County Architect, Wilton House, Parkside Road, Reading, to whom they should be returned not later than Tuesday, June 7, 1960. 1310

**COUNTY BOROUGH OF WEST HAM
BOROUGH ARCHITECT AND PLANNING
OFFICER'S DEPARTMENT**

There are vacancies for ASSISTANTS in the Architectural Section on salary ranges rising to £1,265; £1,115; and £895 p.a.; commencing salary according to qualifications and experience. If you wish to be considered for one of these posts, write to the Borough Architect, 70, West Ham Lane, Stratford, E.15, and/or telephone MARYland 3301 (Ex. 93) for an appointment. 1335

**BOROUGH OF KING'S LYNN
HOUSING ARCHITECT'S DEPARTMENT**
Applications are invited for the appointment of ASSISTANT QUANTITY SURVEYOR. Grade A.P.T. II (£765—£880 per annum).

Candidates should have passed the appropriate Intermediate examination, and be able to assist in the preparation of Bills of Quantities, Valuations and measurement of works in progress and settlement of Final Accounts.

Consideration will be given to the provision of housing accommodation. The appointment is superannuable and subject to the National Scheme of Conditions of Service, and to Medical Examination.

Applications, giving age and full particulars of experience and previous appointments, and naming two referees, should be addressed to G. Holmes, A.R.I.B.A., Housing Architect, Clifton House, Queen Street, King's Lynn, not later than Friday, 17th June, 1960.

Canvassing disqualifies.

E. W. GOCHER,
Town Clerk.

Town Hall,
King's Lynn,
Norfolk. 1337

**LONDON COUNTY COUNCIL
QUALIFYING EXAMINATION FOR THE
OFFICE OF DISTRICT SURVEYOR**

An examination for the certificate of proficiency to perform the duties of district surveyor will be conducted in London in the week commencing 10th October, 1960. The minimum age limit for candidates is 25.

Possession of this certificate is necessary for appointment to positions as District Surveyor (salary scales £1,850 to £3,000 a year) or as Assistant District Surveyor (present salary scale £1,295 to £1,535 a year, plus £61 10s. a year).

Apply to the Architect to the Council (EK/AJ/1008/5), County Hall, Westminster Bridge, S.E.1, for application forms and further particulars. Completed applications to be submitted before 1st September, 1960. 9743

BOROUGH OF SCUNTHORPE

(An expanding modern town of 840 population, area 7,895 acres. R.V. £1,562,541)

**ENGINEERING AND ARCHITECTURAL
APPOINTMENTS**

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

SENIOR ASSISTANT ARCHITECT, A.P.T. III-IV (£880—£1,220 p.a.).

ASSISTANT ARCHITECT, A.P.T. II (£765—£880 p.a.).

ASSISTANT ENGINEER, A.P.T. II (£765—£880 p.a.).

Commencing salaries will be fixed according to qualification and experience.

Housing accommodation available if required, approved removal expenses reimbursed in full, five-day working week.

Further information and application forms relating to the appointments may be obtained from the Borough Surveyor, Laneham Street, Scunthorpe.

Completed forms must be returned to the Town Clerk, 34, High Street, Scunthorpe, not later than Monday, 6th June, 1960. 1308

SPALDING RURAL DISTRICT COUNCIL

Applications are invited for the post of JUNIOR ASSISTANT in the Architect's Department. Salary within Grades Miscellaneous I-11 (£425—£525) according to age and experience. Applicants must have some experience as a draughtsman. The appointment will be subject to a medical examination and the Local Government Superannuation Acts.

Applications stating age, qualifications and experience, together with names of two persons to whom reference can be made to reach the Clerk of the Council, Rural Council Offices, Priory Road, Spalding, Lincs., not later than 31st May, 1960.

G. S. ASHWORTH,
Clerk of the Council.

1301

ROYAL BOROUGH OF KINGSTON-UPON-THAMES

**APPOINTMENT OF PLANNING ASSISTANT
A.P.T. GRADE III**

(£880 to £1,065 plus London Weighting)
Applications are invited for the above-mentioned appointment.

There is considerable development in Kingston and as the Borough Council has widely delegated powers from the Surrey County Council the job offers scope and interesting experience.

Details and application forms from Borough Surveyor, Guildhall, Kingston-upon-Thames, and returnable by 13th June, 1960.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.
18th May, 1960. 1445

Tenders Invited

36s. per inch; each additional line, 3s.
including forwarding replies 2s. extra

**EXETER CITY COUNCIL
ERECTION OF MARKET CORN EXCHANGE
AND BASEMENT, CAR PARK, FORD STREET,
EXETER**

GENERAL BUILDING WORKS

CONTRACTORS desirous of tendering for the above work should forward a deposit of FIVE GUINEAS to the undersigned not later than the 13th June, 1960.

Bills of Quantities, etc., together with instruc-

now for tendering, will then be supplied, and plans will be available for inspection at the office of the undersigned.

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ASSISTANT ARCHITECT wanted in new Chelmsford office by well established London firm, age 22/35. Intermediate standard at least. Salary range £500/£550 according to qualifications. Interesting and varied work Home Counties and London area. Apply Gunton & Gunton, Empire House, St. Martin's le Grand, London, E.C.1. 9886

ASSISTANT ARCHITECT, fully qualified, with experience in private practice, required by progressive office dealing in commercial, industrial and domestic architecture. Salary offered £1,000 p.a. upwards according to experience and ability. Please write giving full particulars to Edward Narracott & Partner, F.A.R.I.B.A., 48, Torwood Street, Torquay. 1141

WIMBLEDON. ARCHITECTURAL ASSISTANTS. Intermediate or above, required by London Architect who has moved to pleasant office near Wimbledon Common and is increasing staff. Five-day week, no town travelling. Interesting work in England and Nigeria. Write or telephone J. E. K. Harrison, F.R.I.B.A., Eagle House, High Street, S.W.19. WIM 4244. 1142

SIDCUP, KENT. Interesting opportunity in small, busy practice (mainly industrial, commercial and domestic) for young qualified (or near) ASSISTANT with experience. Senior partner recently deceased. Only those willing and able to take responsibility need apply. Footscray 7008. 1144

QUALIFIED and unqualified ASSISTANTS required. Salaries by arrangement. Bonus. Pensions Schemes in operation. Schools, industrial, commercial, hospital and domestic work. Write to Firth, Son & Blackburn, A.R.I.B.A., Broadway House, Crackenedge Lane, Dewsbury. 1134

SCHERRER AND HICKS require **ASSISTANTS** of R.I.B.A. Final and Intermediate standard, preferably with two or three years' experience, for both their London and Manchester offices. Please write 19, Cavendish Square, W.1. 1290

OSCAR GARRY & PARTNERS require **ASSISTANTS** of Intermediate and Final Standard. Salary according to office experience. Please ring for appointment. WELbeck 2507-8-9. 1440

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ARCHITECTURAL ASSISTANTS required in busy West End office. Varied work, excellent salary and prospects. Apply to Maurice Sanders, F.R.I.B.A., 24, Harley Street, W.1. 1441

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ARCHITECTS urgently require **ASSISTANTS.** R.I.B.A. Intermediate to Final standard. Please reply stating qualifications, experience and salary required, to Herbert, Son & Sawday, 18, Friar Lane, Leicester. 1428

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KENNETH STEEL & HADLEY COLEMAN, Architects, 7, The Crescent, Taunton, Somerset, require **ASSISTANT** of Intermediate to Final standard for interesting modern design work. Salary by arrangement. 1427

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ARCHITECTS and **ARCHITECTURAL ASSISTANTS** required immediately in Birmingham Office with progressive outlook. Excellent prospects. Salary by arrangement and according to experience within commencing salary grades of £850 to £1,400. Reply in confidence, giving details of experience, qualifications, age and salary required. Box 1329.

ARCHITECTURAL ASSISTANTS and **DRAFTSMEN** required for London Firm of Architects, Engineers and Surveyors. Please apply in writing, stating experience, age and salary required, to Guise, Davies and Unfold, Granville House, 132-135, Sloane Street, S.W.1. 1324

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R. J. BESWICK & SON, F.R.I.B.A., 10, Victoria Road, Swindon, Wiltshire, have vacancies for ARCHITECTURAL ASSISTANTS, about Intermediate standard or over. Apply in writing or telephone Swindon 2857. 1326

ARCHITECTURAL ASSISTANT required in busy office in Kensington. Salary approximately £800. Please apply to Box 1325.

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GRAHAM CRUMP & DENIS CRUMP, F.A.R.I.B.A., require ARCHITECTURAL ASSISTANTS in Croydon office. Intermediate standard with several years' office experience. Interesting and varied work. Five-day week. Write, giving full particulars, 43, George Street, Croydon. 1366

ARCHITECTURAL ASSISTANT, Intermediate standard, required in Chartered Architect's office situated in West Midland Town. Five-day week. Please apply, stating age, training, experience and salary required. Box 1353.

WANTED—ARCHITECTURAL ASSISTANTS, qualified and Intermediate standard. Interesting responsible work—Schools, Factories, Hospitals, Churches, etc. Pension Scheme. Apply to Eric H. Knight, A.R.I.B.A., Abbey & Hanson, 12, Belmont, Shrewsbury. Tel.: 4722. 1375

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DESIGN GROUP, NIGERIA, requires a qualified ASSISTANT ARCHITECT for design work in Ibadan and to supervise building in various parts of Nigeria. Salary £1,400—£1,800 according to age and experience; tours each of 18 months with three months fully paid leave; free medical attention; car provided; tourist class passages paid from and to the U.K.; free accommodation suitable only for unmarried applicants. The appointment is to be taken up as soon as possible. Write to 269, King Street, London, W.6. 1372

J. M. AUSTIN-SMITH AND PARTNERS require an ASSISTANT with shopfitting experience (or interest) to be responsible for jobs where initiative is required and encouraged. (Maximum age 30.) Apply in writing, giving all relevant details, to 29, Sackville Street, London, W.1. 1369

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ARCHITECTS, fully qualified with experience, required immediately by Ronald Fielding, F.R.I.B.A., in his London office. Salaries according to experience and ability. Please apply in writing or by telephone to Aldwych House, Aldwych, W.C.2. CHANCERY 8201. 1357

ARCHITECTURAL ASSISTANT, Intermediate standard, required in Luton Office to deal with survey work, estate layouts, working drawings and details for domestic, industrial and other varied projects. Pension scheme in operation after probationary period. Apply in first instance with details of experience, salary required, etc., to Box 1356.

PHILIP HIRST & WYN JONES require SENIOR and JUNIOR ASSISTANTS for London Office. Salary up to £1,000. Commensurate with experience. Write, giving details of experience and present salary, to 35, Doughty Street, London, W.C.1. 1419

WILLIAM HOLFORD & PARTNERS, Wanted, go-ahead ASSISTANT to work on contemporary University projects. Ability more important than qualifications. Three weeks' holiday, bonus, etc. Apply fully to 2, Angel Court, E.C.2. 1418

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ARCHITECTURAL ASSISTANTS required for small office with varied practice. Write, giving details of experience and salary required, to W. F. Howard, 35, Thurloe Street, South Kensington, S.W.7. 1413

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Chief Surveyor,
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Northampton. 1407

ARCHITECTS' CO-PARTNERSHIP require a qualified or nearly qualified ASSISTANT with some experience for work on Special School. Write to 44, Charlotte Street, W.1, or phone LANGHAM 5791. 1405

EXPERIENCED CLERK OF WORKS or **EX-SITE AGENT** required for new building project just started in Manchester. Salary £1,000 p.a. or by arrangement. Write Box 1404.

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REQUIRED at the Northern Branch Office, Alwoodley, Leeds, by continually expanding Housing Estate Development Company. Proficient in preparations of working drawings from sketches, estate layouts, house design and commercial projects. Salary according to experience. Excellent prospects. Write or phone McManus & Co., Ltd., Mimms Hall Road, Potters Bar, Middlesex. Potters Bar 2315 ext. 22 for appointment. 1342

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TECHNICAL REPRESENTATIVE to call on Architects and Surveyors for manufacturers Pitch Fibre Drain Pipe. Junior professional man wishing to change occupation considered. Car and expenses. Write Temple Tubes Limited, Passfield, Hants. 1302

AN ARCHITECT'S WIFE or woman architect who abandoned her studies might want an interesting, though modest job, which could leave her free during school holidays. Write to The Librarian, The Architectural Association, Bedford Square, W.C.1. 1295

ARCHITECTURAL DRAUGHTSMAN for work on large scale housing development. Work will include the preparation of detailed drawings and preference will be given to applicants who have previous experience in this type of work. Apply, Mr. F. R. Coote, Office Manager, T. W. Homes Ltd., Western House, Western Avenue, Ealing, London, W.5. 1360

ARCHITECTURAL DRAUGHTSMAN required in Luton Office, with minimum of three years' training, and capable of undertaking work of a varied nature, including nominal supervision on site. Pension scheme in operation after probationary period. Apply in first instance with details of experience and salary required, etc., to Box 1355.

QUANTITY SURVEYOR required for interesting and varied work in busy Architects' Office. The work includes cost planning, preparation of estimates and normal quantity surveyors services. Good prospects, holiday arrangements honoured. Apply to Hammett & Norton, 29, Sackville Street, W.1. 1397

ARCHITECTURAL DRAUGHTSMAN required about intermediate standard in small private office. Every opportunity given to right applicant. Reply with all particulars, including salary required, to Honson Hill & Partners, 2, Leyton Green, Harpenden. 1393

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ASSISTANT QUANTITY SURVEYOR required with experience of alteration work, taking off to final account. Interesting long term work in hand. Pay by arrangement. All workers are partners and share all profits, with good holidays, sick pay, shopping discount, subsidised meals and non-contributory pension scheme. Apply, giving full details, to Director of Personnel, John Lewis Partnership, Oxford Street, London, W.1. 1408

ARCHITECTURAL/DRAUGHTSMAN, age up to 30 years, to specialise in swimming pool and other interesting work with tile and mosaic finishes. Apply with full particulars to Box No. 1410.

ARCHITECTURAL DRAUGHTSMAN

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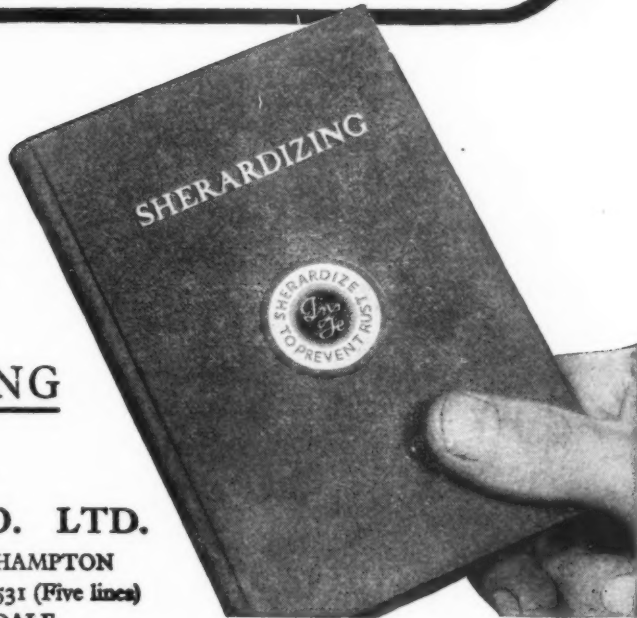
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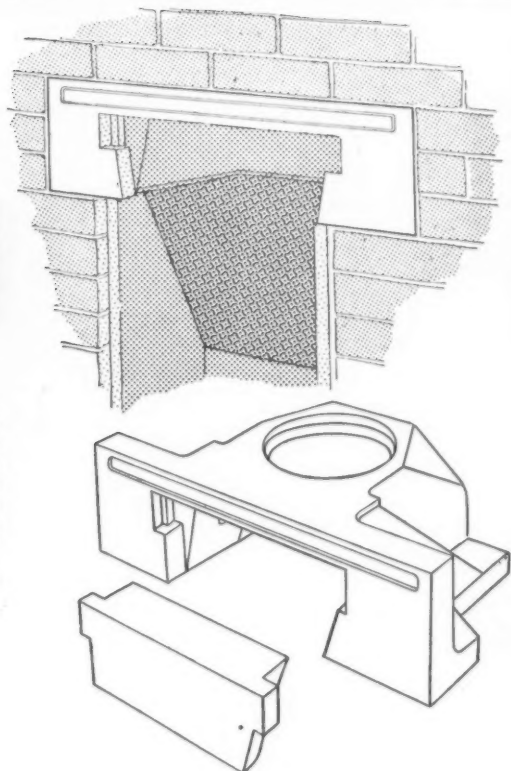
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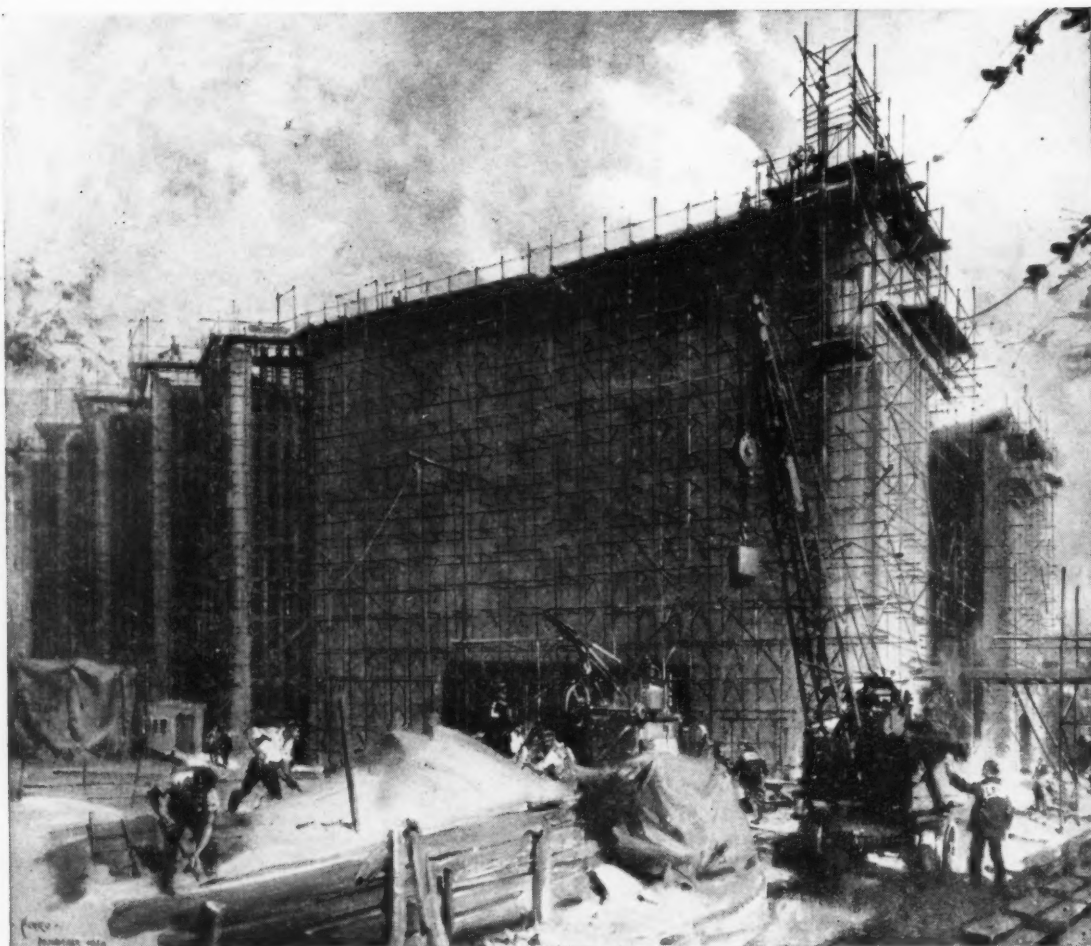
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