

THE ARCHITECTS' JOURNAL



standard contents

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

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PHYSICAL PLANNING

SUPPLEMENT

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HOUSING STATISTICS

Architectural Appointments
Wanted and Vacant

No. 3092]

[Vol. 119

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

| | | |
|-----------|--|--------------------------|
| AA | Architectural Association, 34/6, Bedford Square, W.C.1. | Museum 0974 |
| AAI | Association of Art Institutions. Secy.: W. Marlborough Whitehead, "Dyneley," Castle Hill Avenue, Berkhamstead, Herts. | |
| ABS | Architects' Benevolent Society. 66, Portland Place, W.1. | Langham 5721 |
| ABT | Association of Building Technicians. 5, Ashley Place, S.W.1. | Victoria 0447-8 |
| ACGB | Arts Council of Great Britain. 4, St. James' Square, S.W.1. | Whitehall 9737 |
| ADA | Aluminium Development Association. 33, Grosvenor Street, W.1. | Mayfair 7501/8 |
| ArchSA | Architectural Students' Association. 34/36, Bedford Square, W.C.1. | |
| ARCUK | Architects' Registration Council. 68, Portland Place, W.1. | Langham 8738 |
| BAE | Board of Architectural Education. 66, Portland Place, W.1. | Langham 5721 |
| BATC | Building Apprenticeship and Training Council. Lambeth Bridge House, S.E.1. | |
| BC | Building Centre. 26, Store Street, Tottenham Court Road, W.C.1. | Reliance 7611, Ext. 1706 |
| BCC | British Colour Council. 13, Portman Square, W.1. | Museum 5400 |
| BCCF | British Cast Concrete Federation. 105, Uxbridge Road, Ealing, W.5. | Welbeck 4185 |
| BCIRA | British Cast Iron Research Association. Alvechurch, Birmingham. | Ealing 9621 |
| BDA | British Door Association. 10, The Boltons, S.W.10. | Redditch 716 |
| BEDA | British Electrical Development Association. 2, Savoy Hill, W.C.2. | Fremantle 8494 |
| BIA | British Ironfounders' Association. 145, Vincent Street, Glasgow, C.2. | Temple Bar 9434 |
| BIAE | British Institute of Adult Education. 29, Tavistock Square, W.C.1. | Glasgow Central 2891 |
| BID | Building Industries Distributors. 52, High Holborn, W.C.1. | Euston 5385 |
| BINC | Building Industries National Council. 11, Weymouth Street, W.1. | Chancery 7772 |
| BOT | Board of Trade. Whitehall Gardens, Horseguards Avenue, Whitehall, S.W.1. | Langham 2785 |
| BRDB | British Rubber Development Board. Market Buildings, Mark Lane, E.C.3. | Trafalgar 8855 |
| BRS | Building Research Station. Bucknalls Lane, Watford. | Mansion House 9383 |
| BSA | Building Societies Association. 14, Park Street, W.1. | Garston 2246 |
| BSI | British Standards Institution. British Standards House, 2, Park St., W.1. | Mayfair 0515 |
| BTE | Building Trades Exhibition. 4, Vernon Place, W.C.1. | Holborn 8146/7 |
| CABAS | City and Borough Architects Society. C/o Johnson Blackett, F.R.I.B.A., Civic Centre, Newport, Mon. | Newport 5491 |
| CAS | County Architects' Society. C/o F. R. Steele, F.R.I.B.A., County Hall, Chichester. | Chichester 3001 |
| CCA | Cement and Concrete Association. 52, Grosvenor Gardens, S.W.1. | Sloane 5255 |
| CCP | Council for Codes of Practice. Lambeth Bridge House, S.E.1. | Reliance 7611 |
| CDA | Copper Development Association. Kendals Hall, Radlett, Herts. | Radlett 5616 |
| CIAM | Congrès Internationaux d'Architecture Moderne. Dolderal, 7, Zurich, Switzerland. | |
| COID | Council of Industrial Design. Tilbury House, Petty France, S.W.1. | Abbey 7080 |
| CPRE | Council for the Preservation of Rural England. 4, Hobart Place, S.W. | 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 |
| DGW | Directorate General of Works, Ministry of Works, Lambeth Bridge House, S.E.1. | |
| DIA | Design and Industries Association. 13, Suffolk Street, S.W.1. | Reliance 7611 |
| DPT | Department of Overseas Trade. Horseguards Avenue, Whitehall, S.W.1. | Whitehall 0540 |
| EJMA | English Joinery Manufacturers' Association (Incorporated), Sackville House, 40, Piccadilly, W.1. | Trafalgar 8855 |
| EPNS | English Place-Name Society. 7, Selwyn Gardens, Cambridge. | Regent 4448 |
| FAS | Faculty of Architects and Surveyors. 67, Oxford Street, W.1. | Gerrard 0021 |
| FASS | Federation of Association of Specialists and Sub-Contractors, Artillery House, Artillery Row, S.W.1. | Abbey 7232 |
| FBBDO | Fibre Building Board Development Organisation, Ltd., Melbourne House, Aldwych, W.C.2. | Temple Bar 4561 |
| FBI | Federation of British Industries. 21, Tothill Street, S.W.1. | Whitehall 6711 |
| FC | Forestry Commission. 25, Savile Row, W.1. | |
| FCMI | Federation of Coated Macadam Industries. 37, Chester Square, S.W.1. | Sloane 1002 |
| FDMA | 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. 26, Great Ormond Street, Holborn, W.C. | Chancery 7583 |
| 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 4041 |
| FS (Eng.) | Faculty of Surveyors of England. 67, Oxford Street, W.1. | Gerrard 0021 |
| GC | Gas Council. 1, Grosvenor Place, S.W.1. | Sloane 4554 |
| GG | Georgian Group. 27, Grosvenor Place, S.W.1. | Sloane 2844 |
| HC | Housing Centre. 13, Suffolk Street, Pall Mall, S.W.1. | Whitehall 2881 |
| IAAS | Incorporated Association of Architects and Surveyors. 75, Eaton Place, S.W.1. | Sloane 5615 |
| ICA | Institute of Contemporary Arts. 17-18, Dover Street, Piccadilly, W.1. | Grosvenor 6186 |
| ICE | Institution of Civil Engineers. Great George Street, S.W.1. | Whitehall 4577 |
| IEE | Institution of Electrical Engineers. Savoy Place, W.C.2. | Temple Bar 7676 |
| IES | Illuminating Engineering Society. 32, Victoria Street, S.W.1. | Abbey 5215 |

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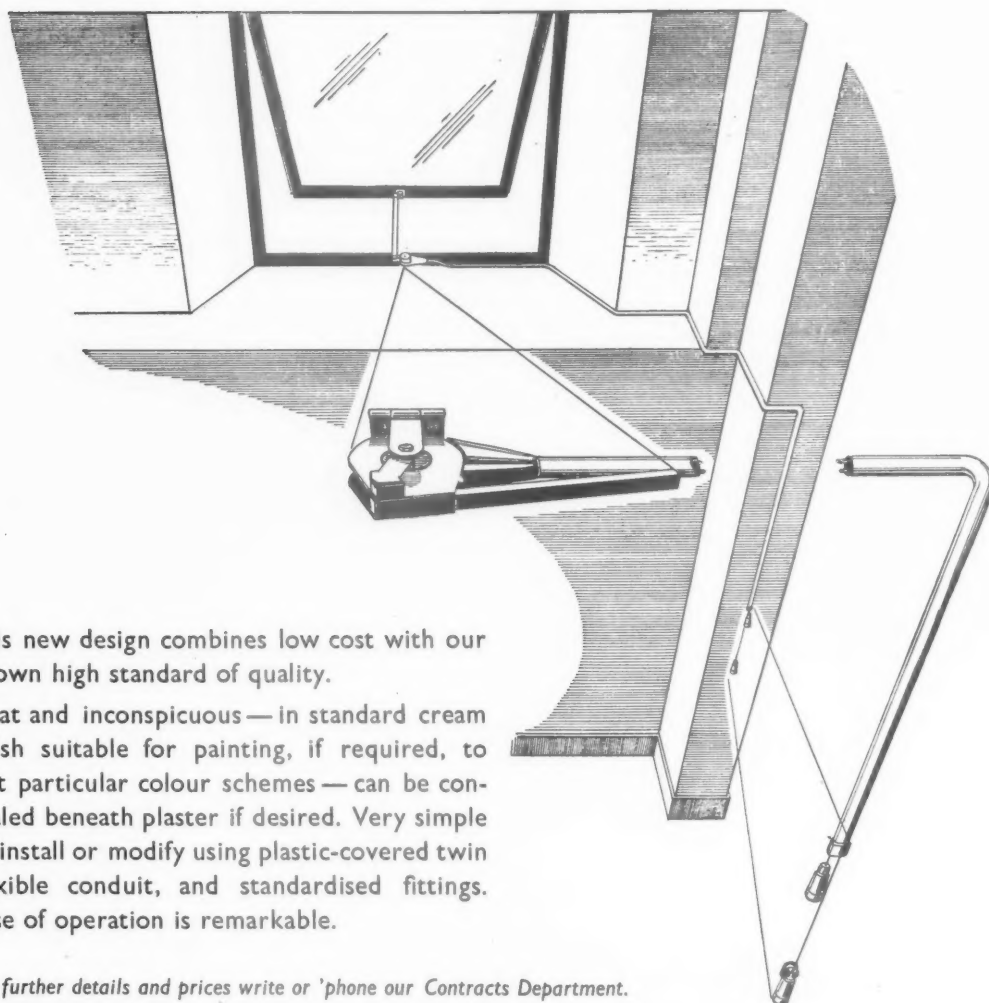
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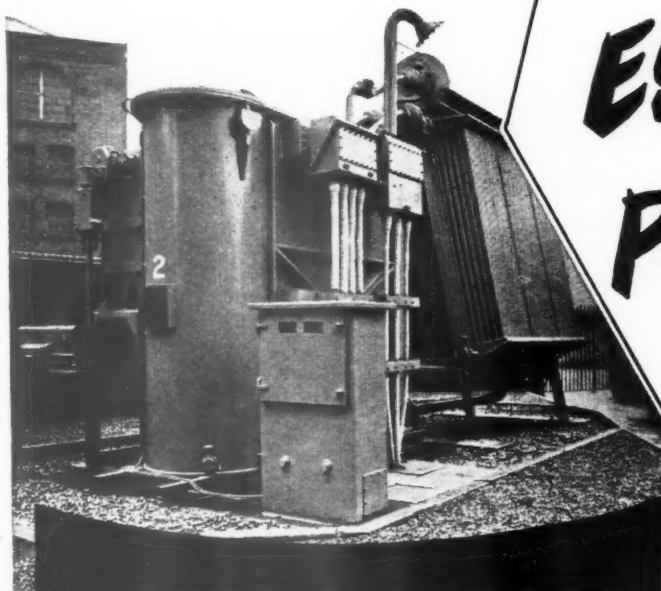
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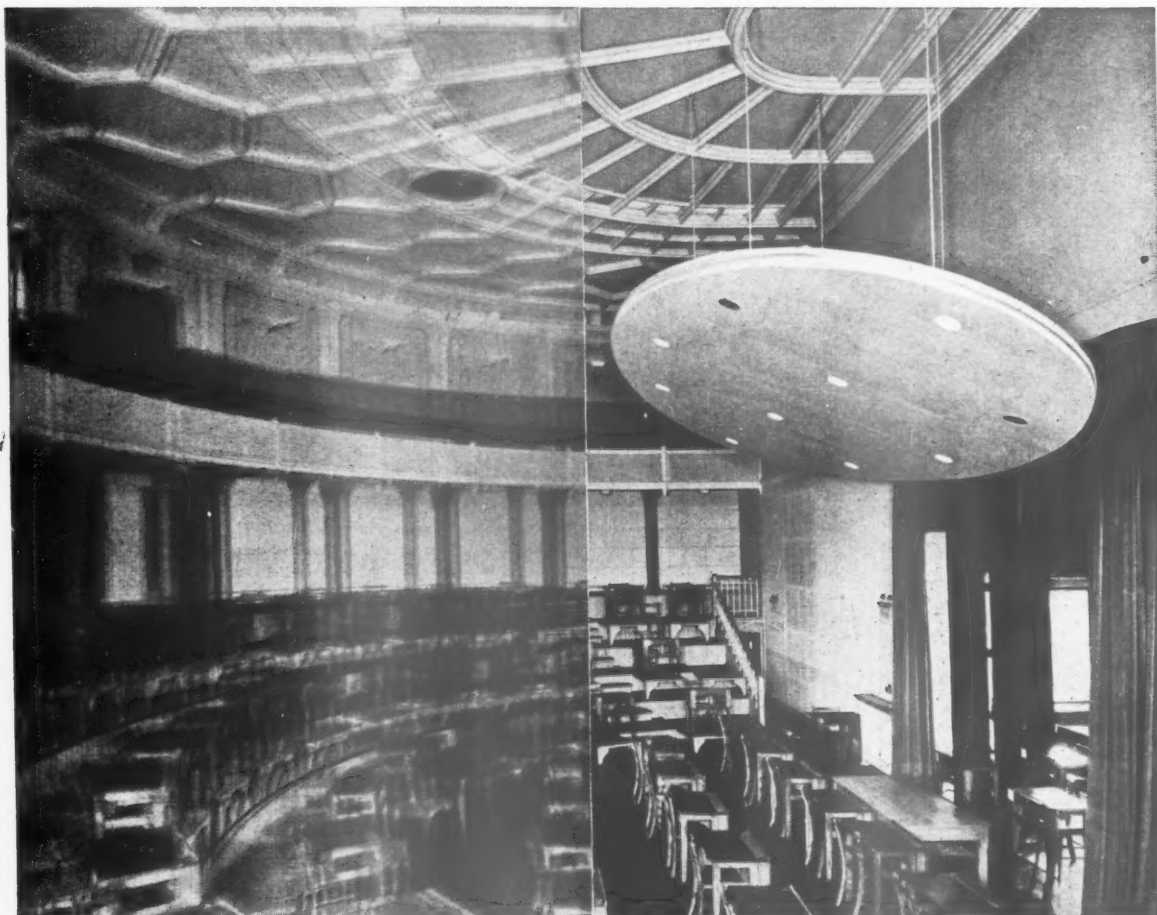
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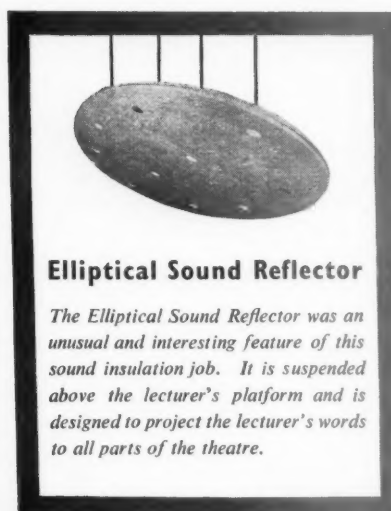
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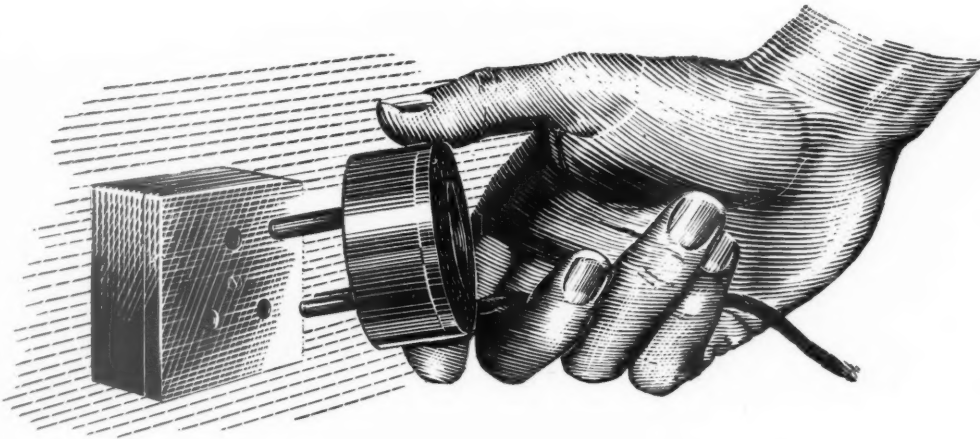
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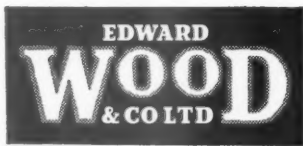
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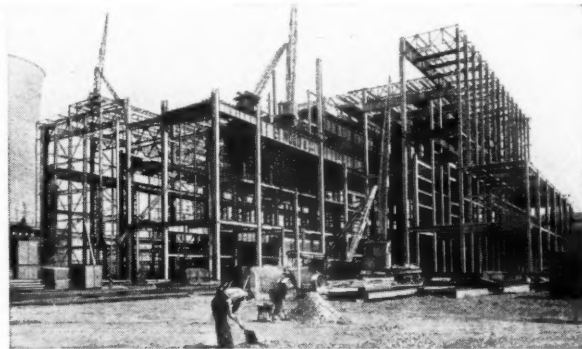


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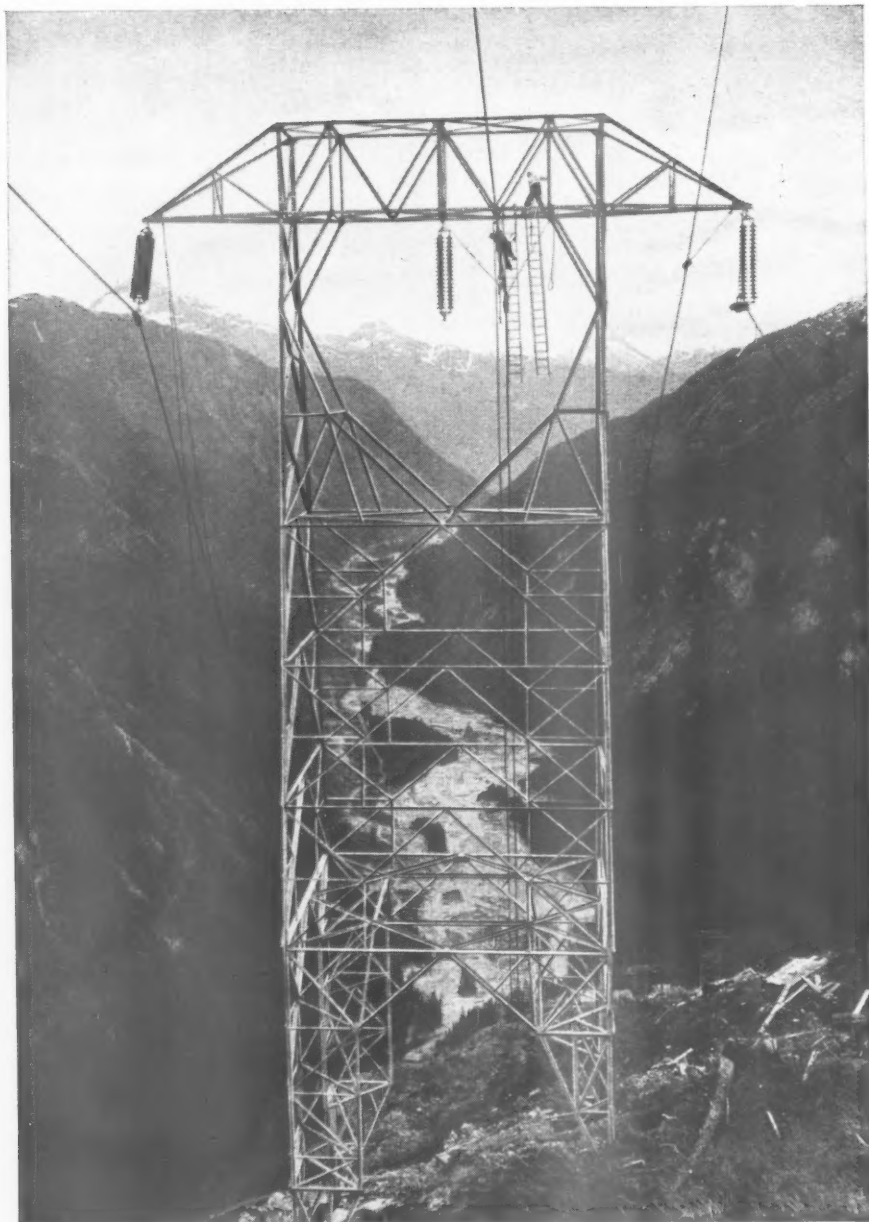
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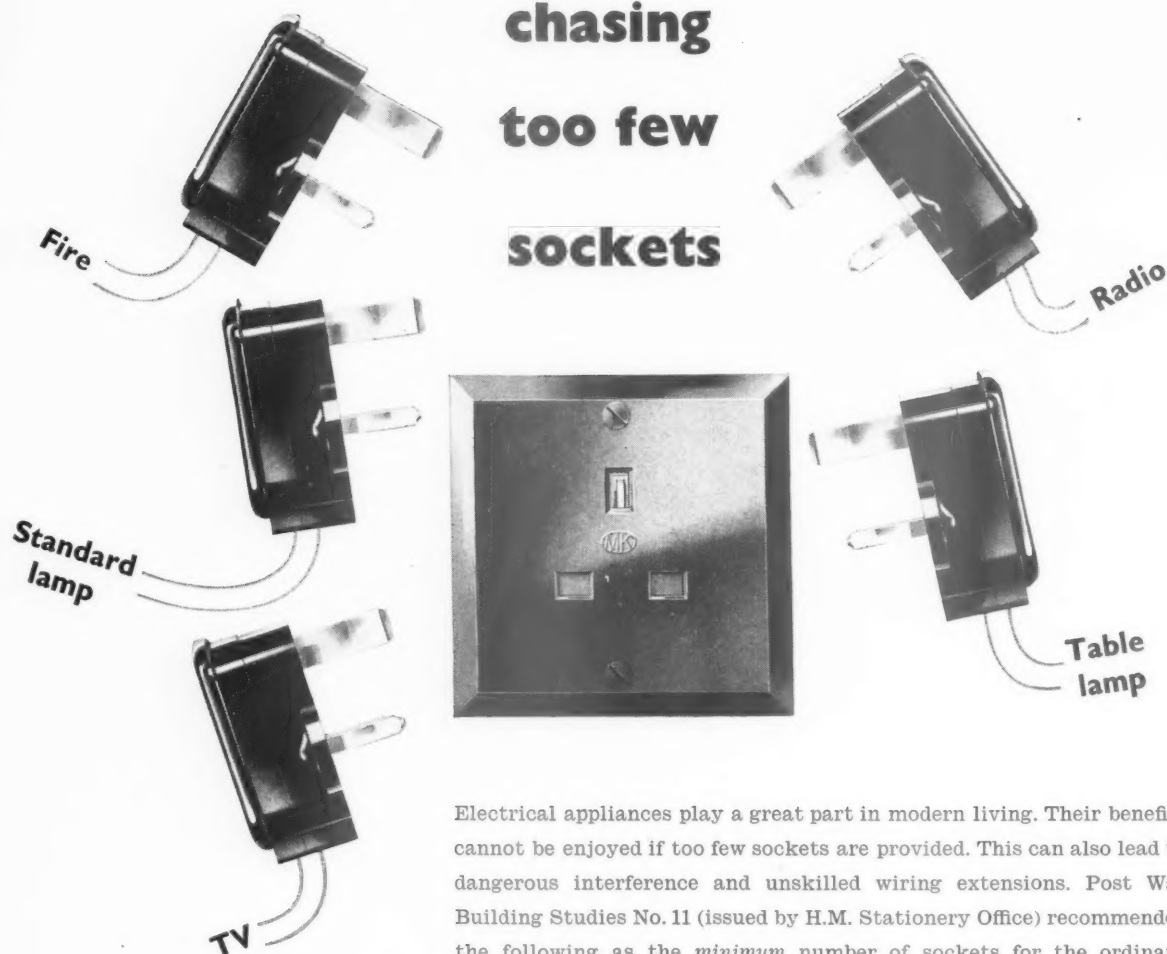
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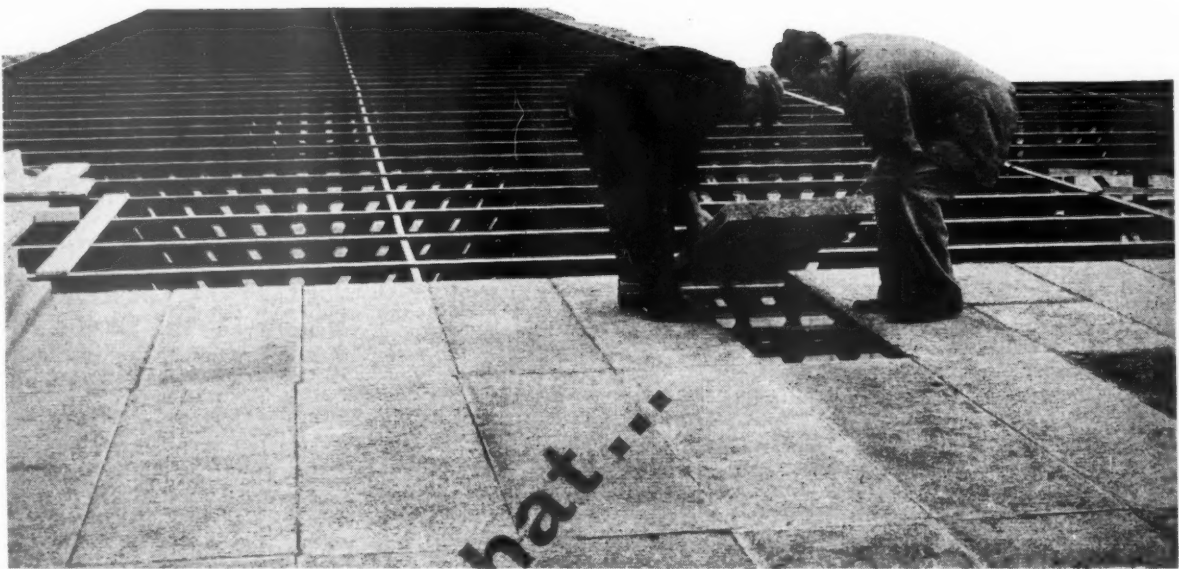
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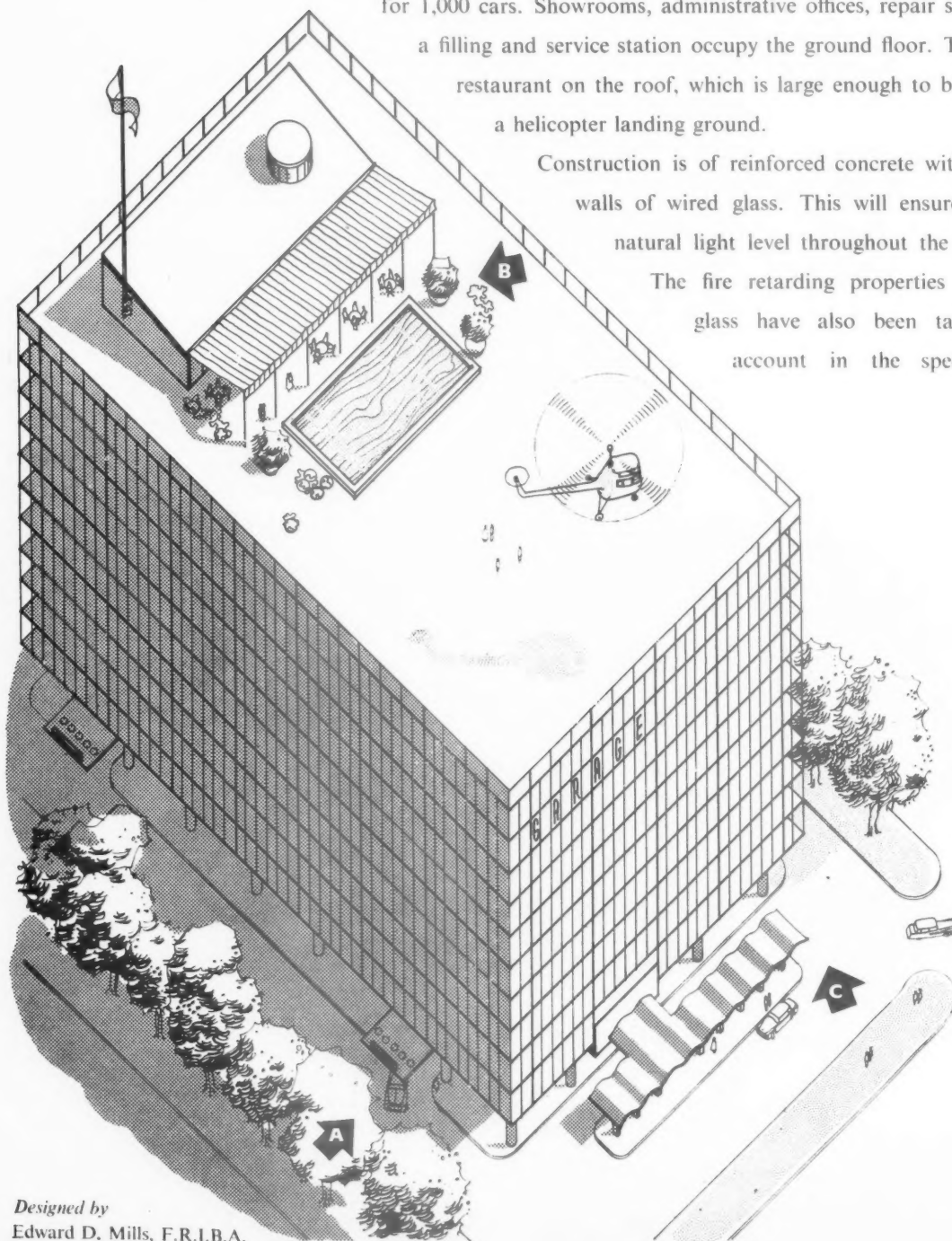
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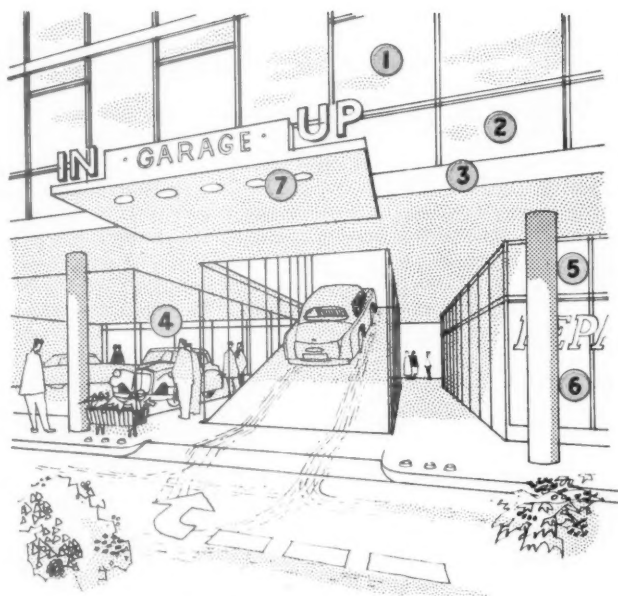
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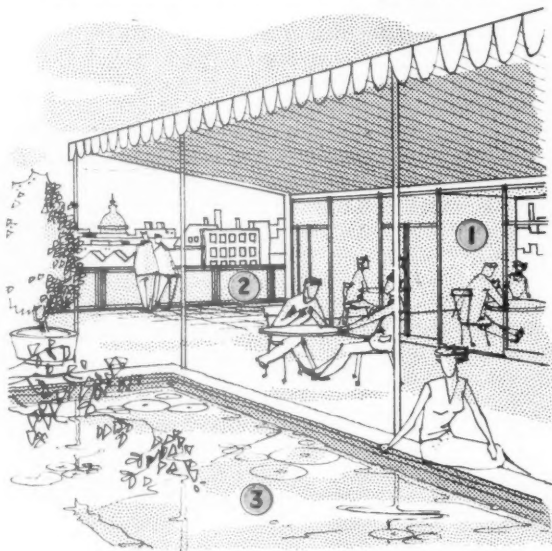
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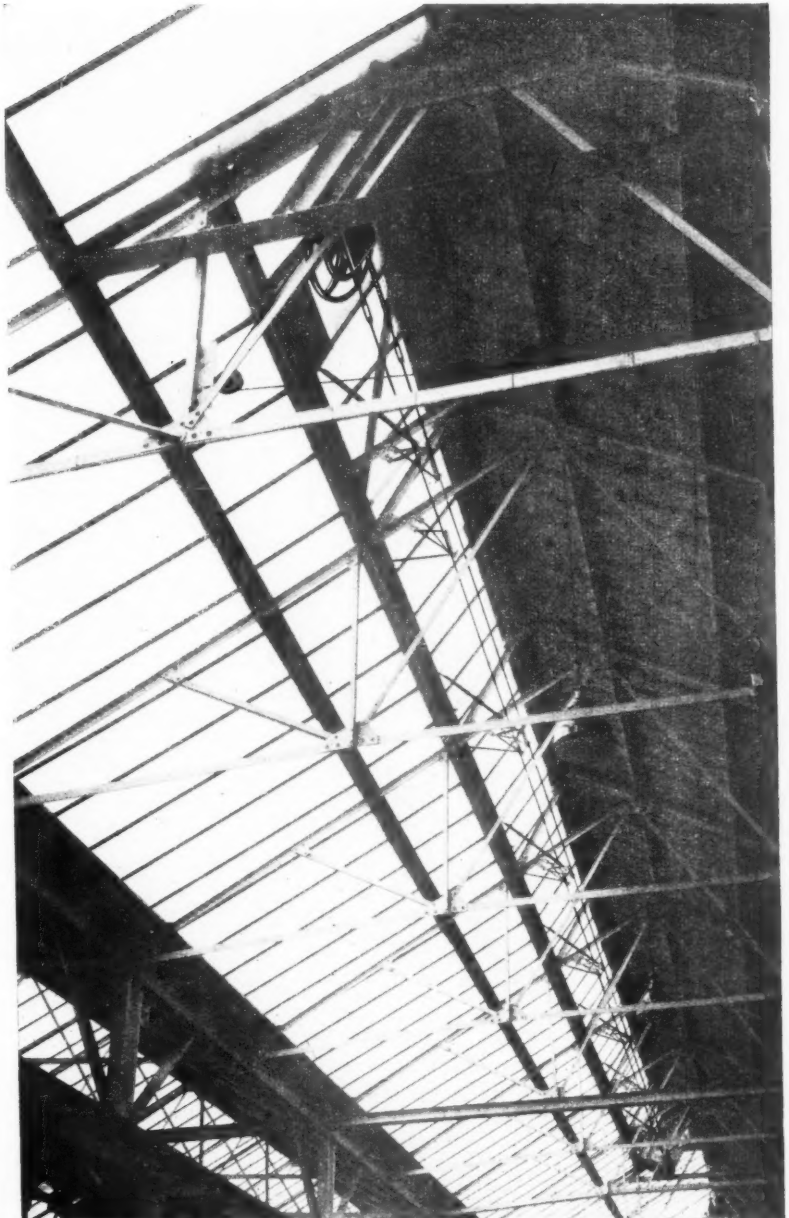
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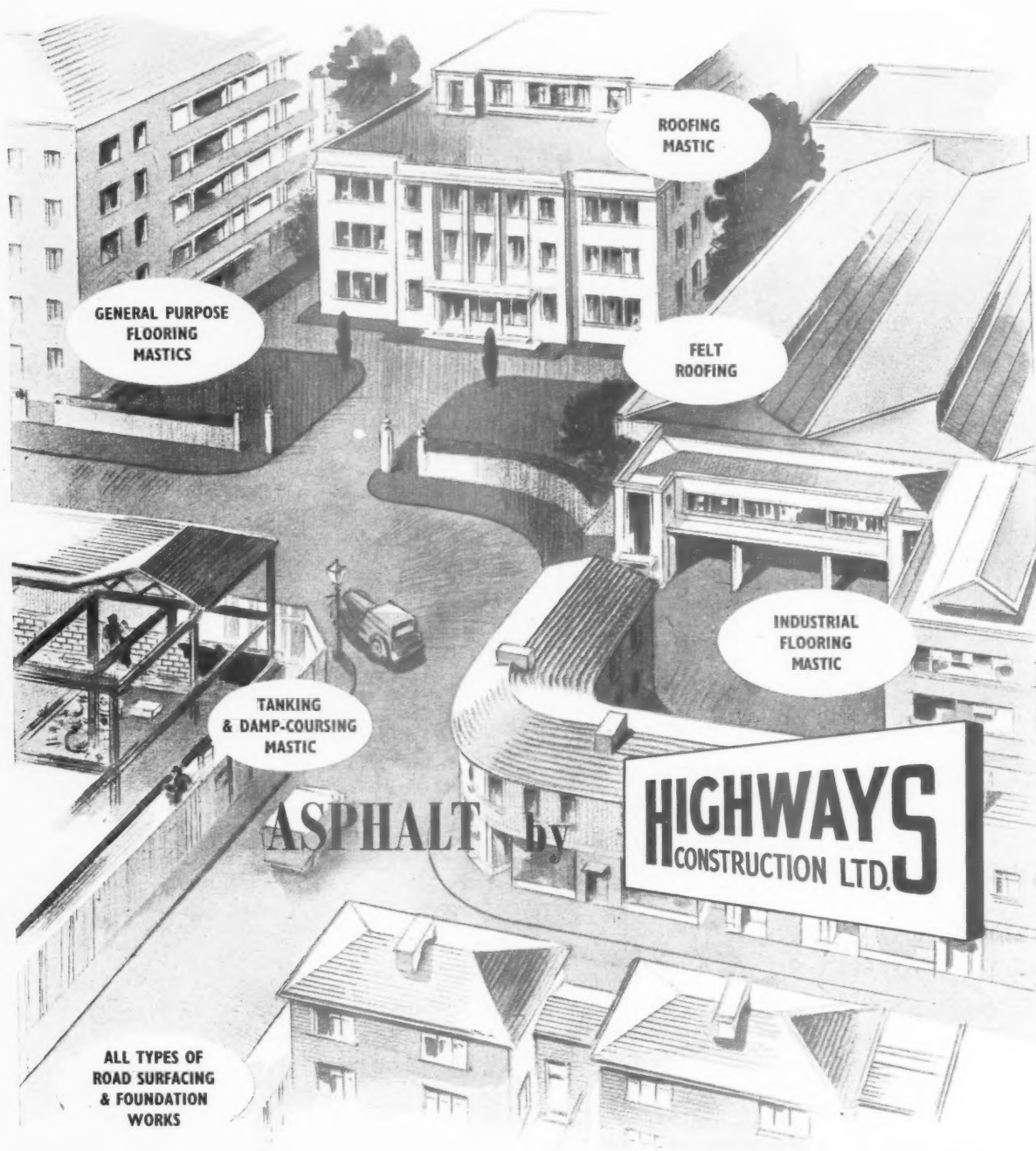
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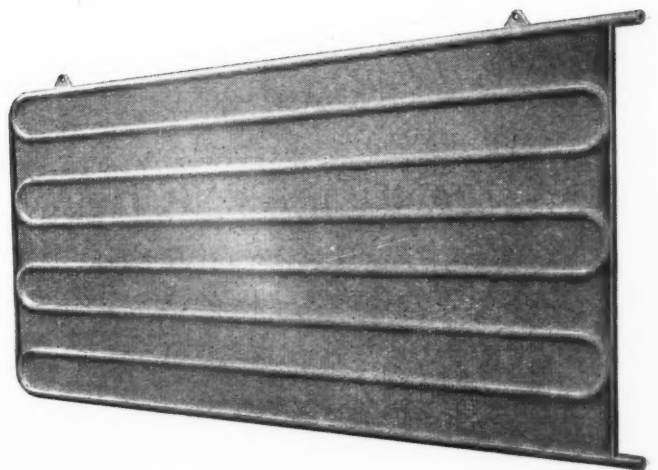
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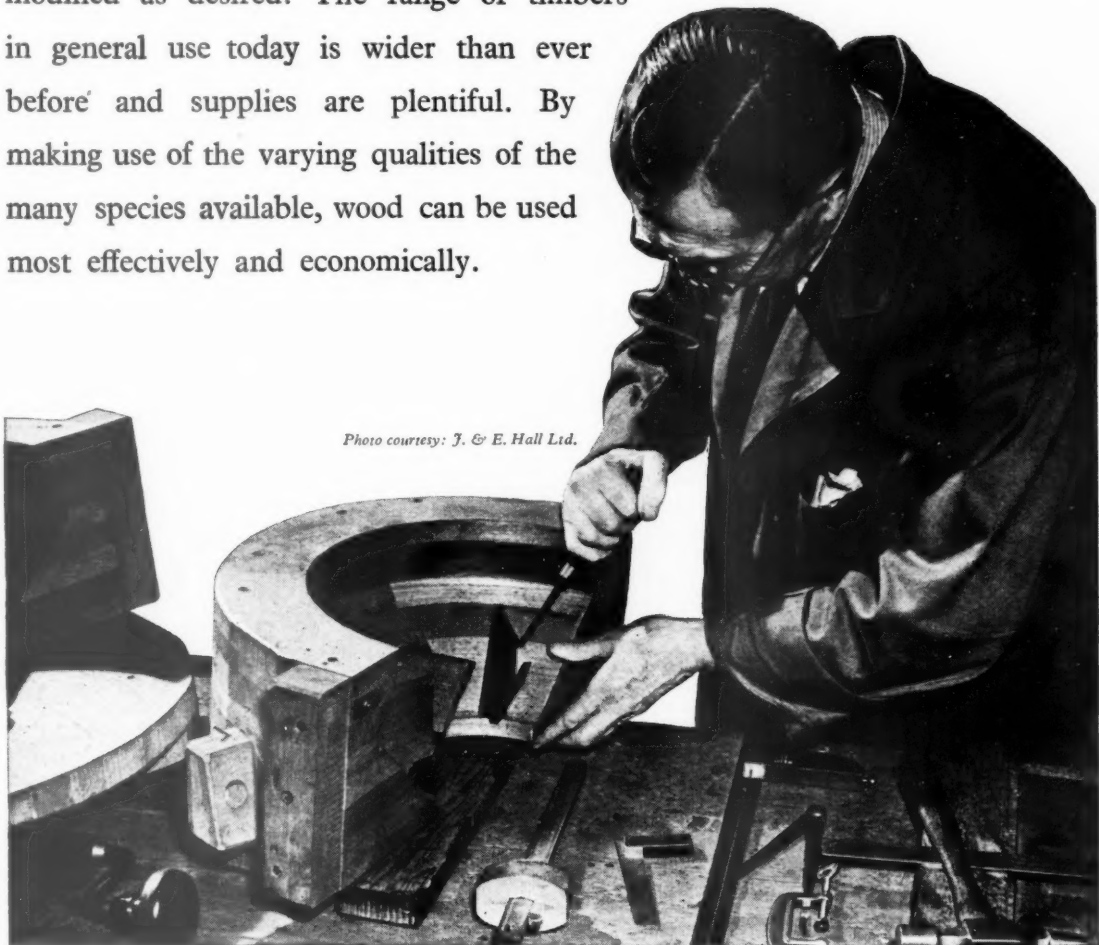


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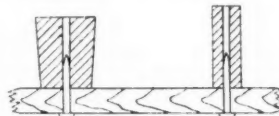
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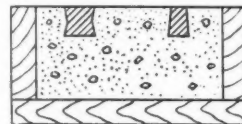
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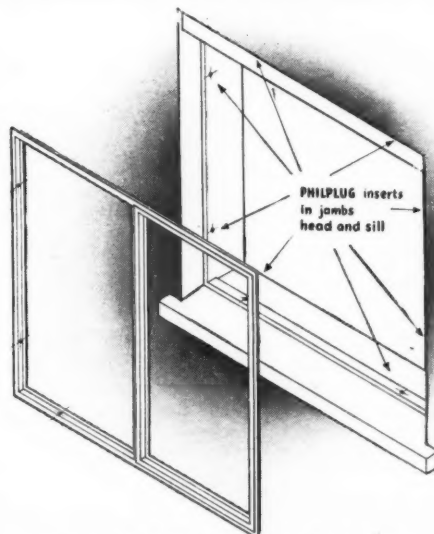
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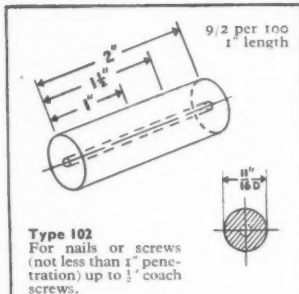


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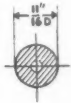
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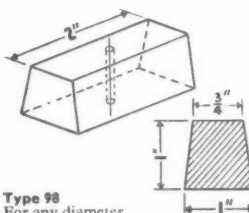
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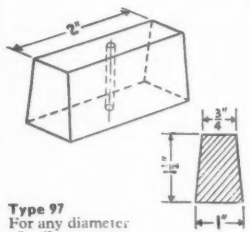


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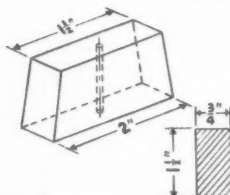
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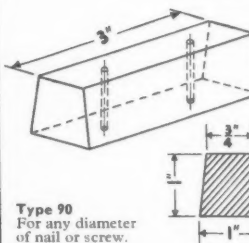
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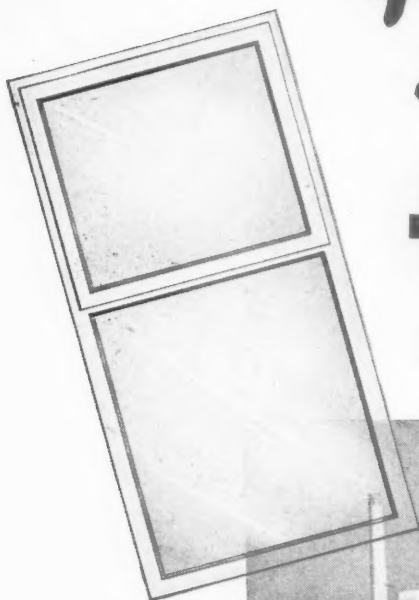
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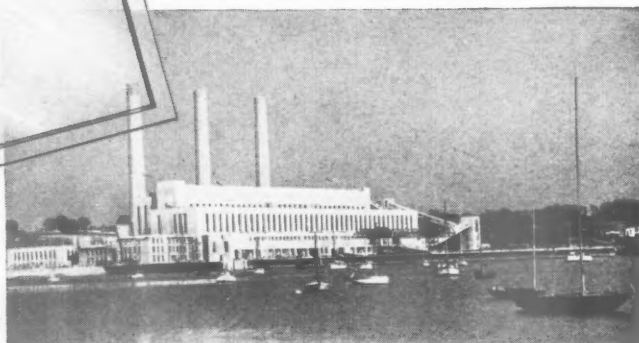
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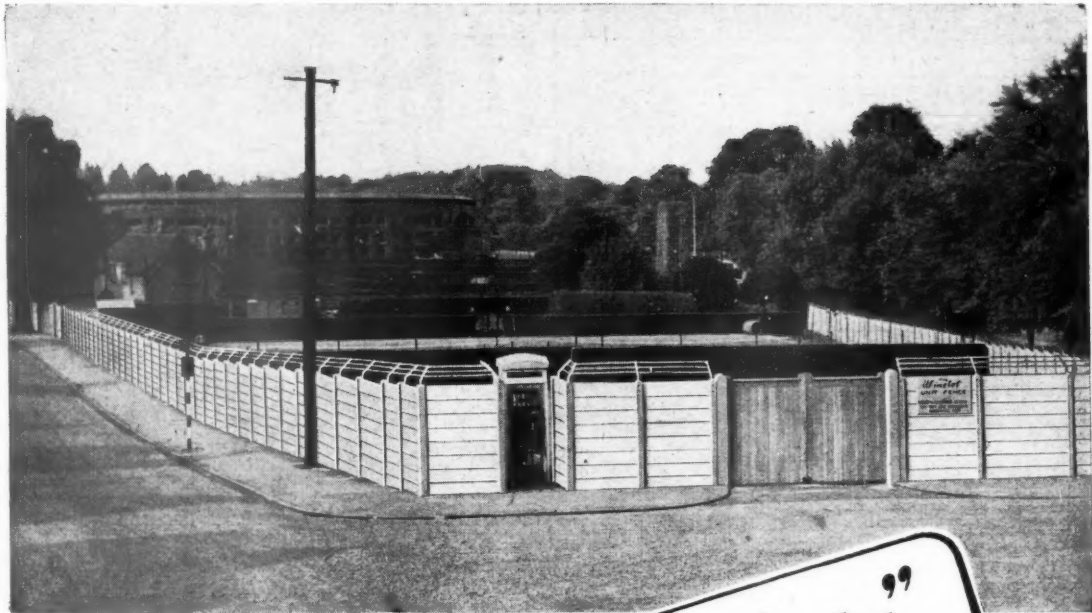


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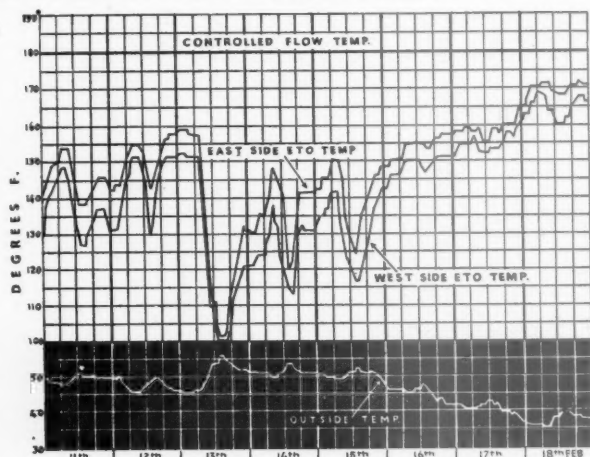
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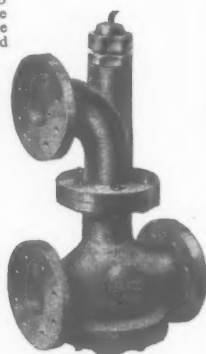
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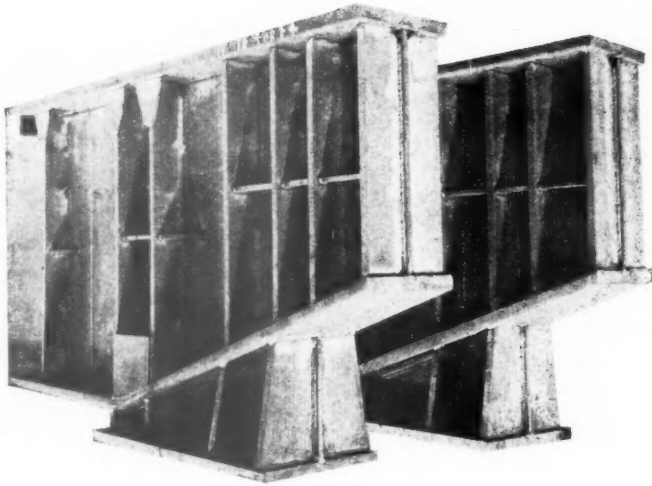
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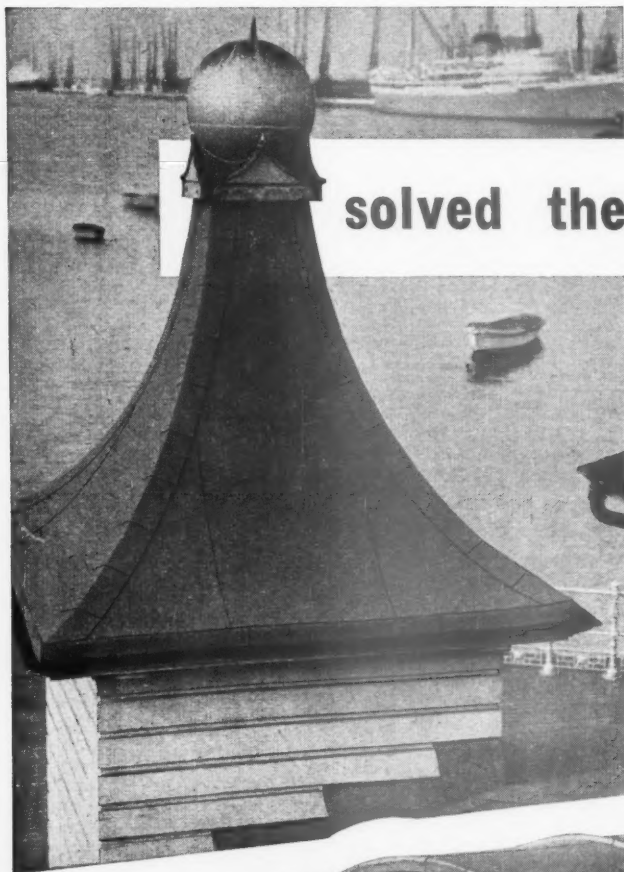
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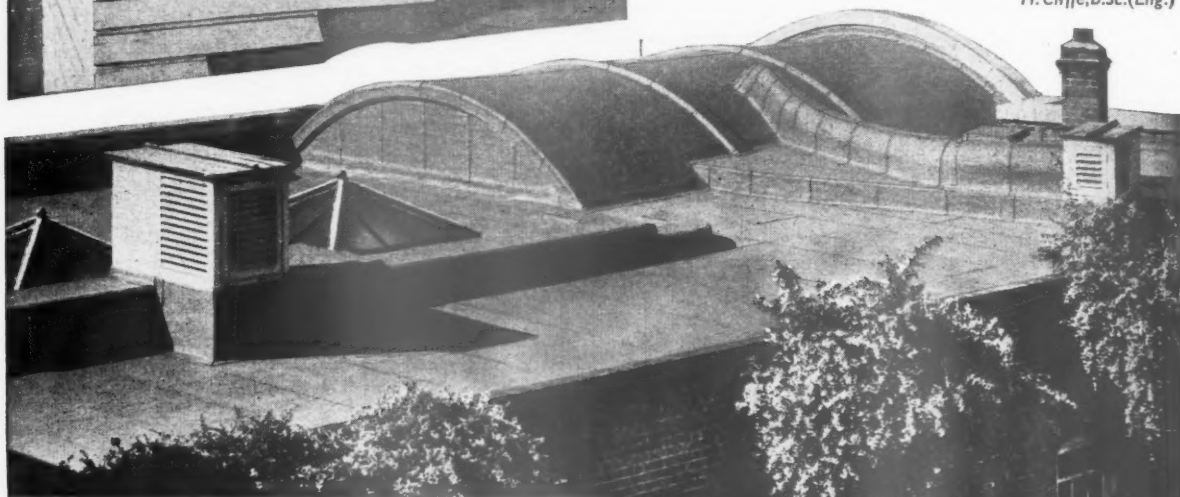
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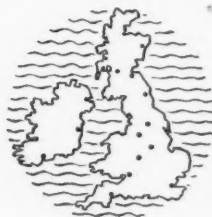
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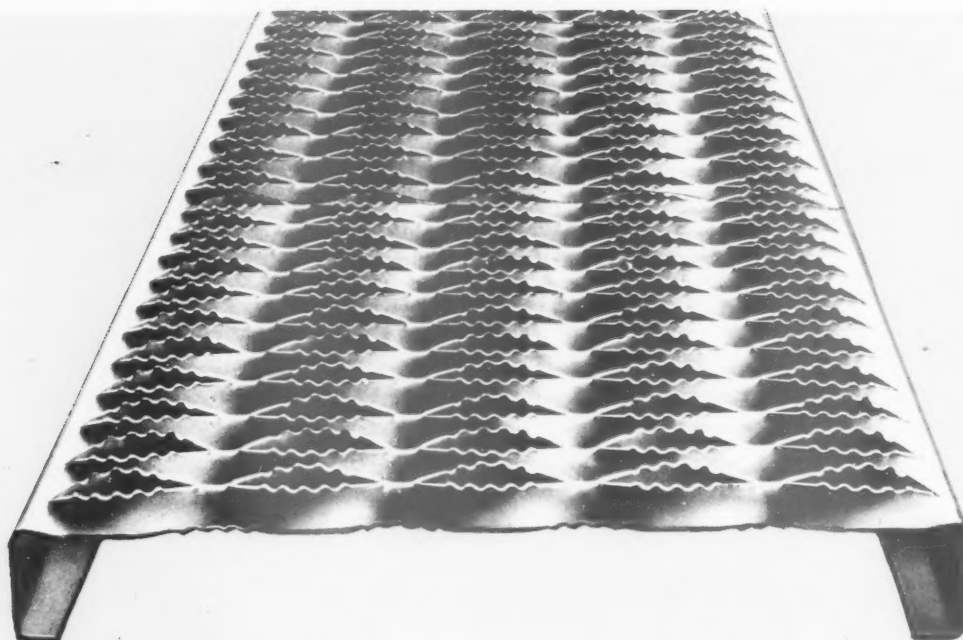
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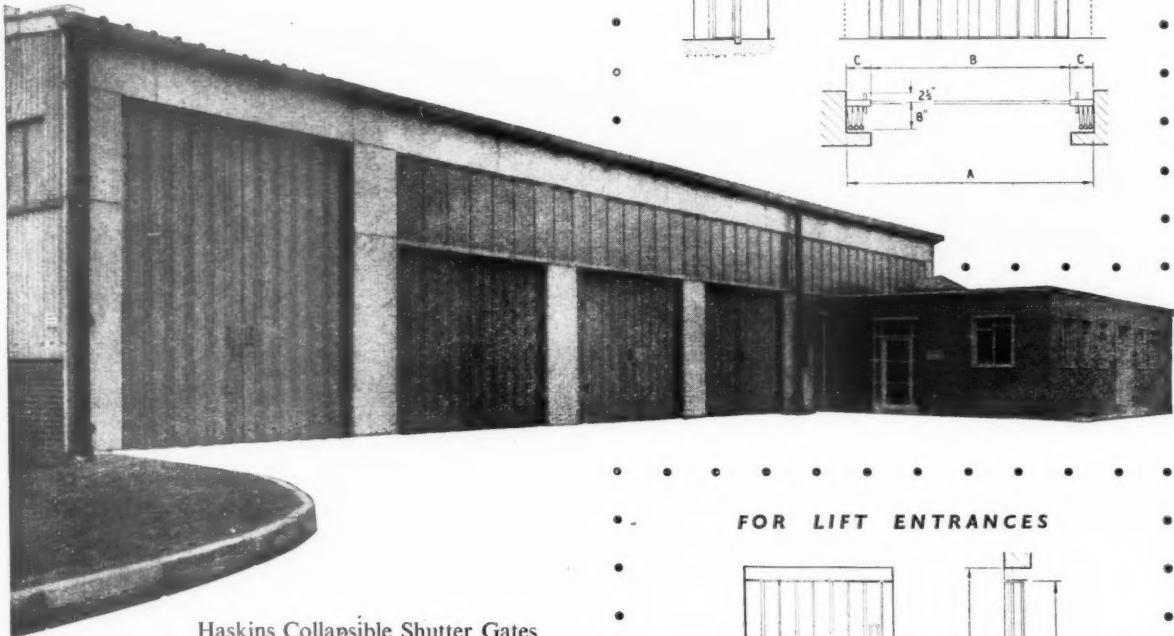
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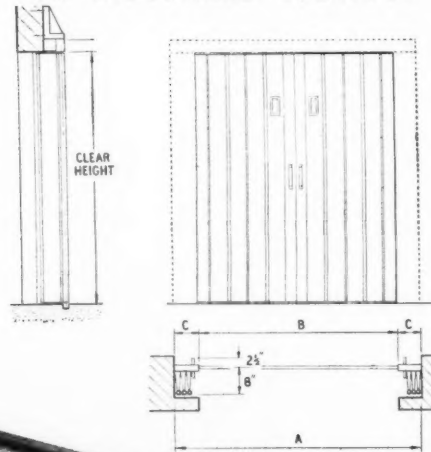


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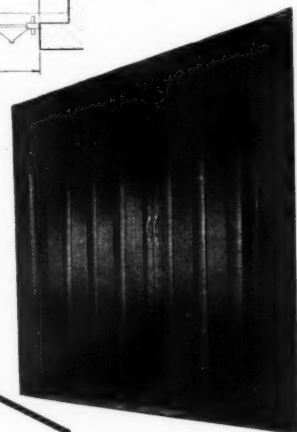
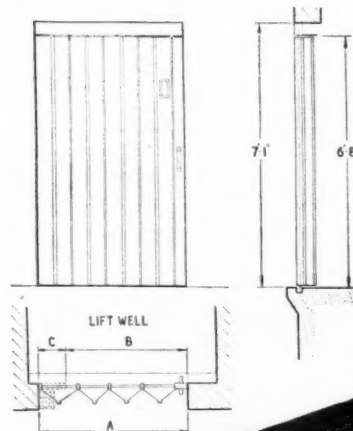
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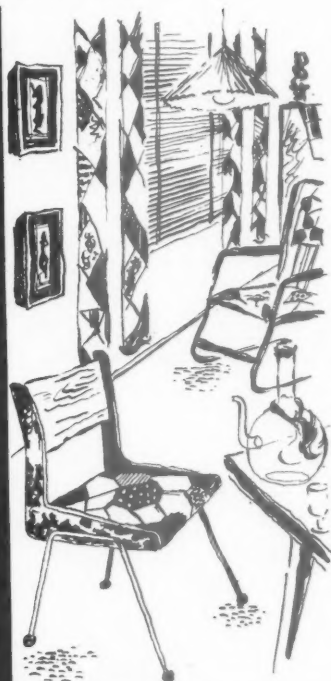
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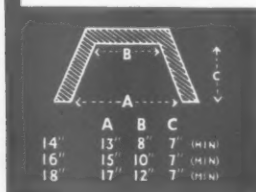
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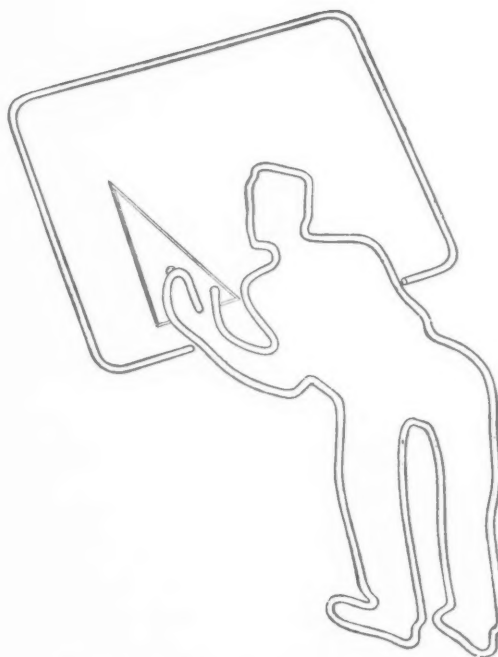
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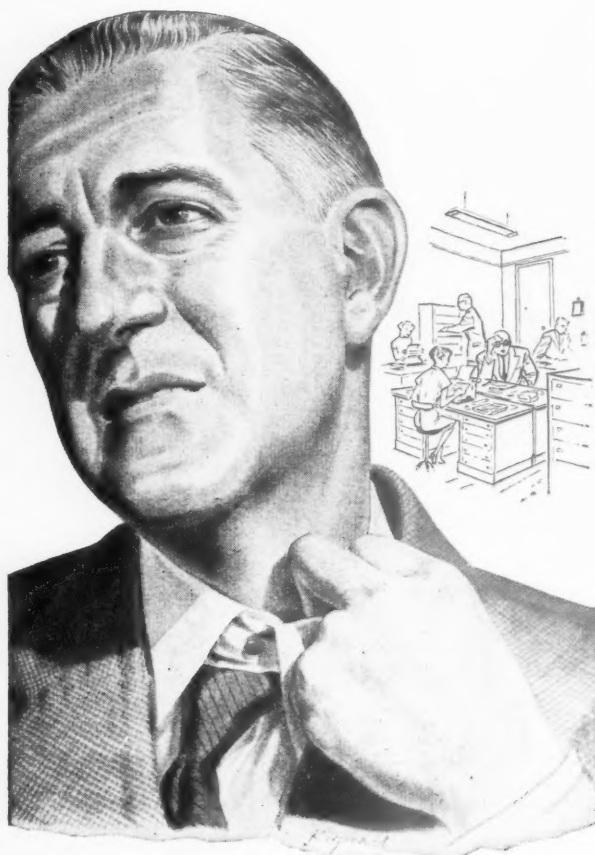
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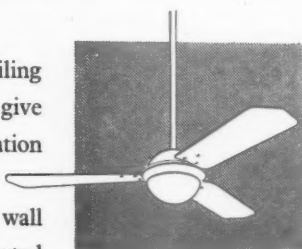
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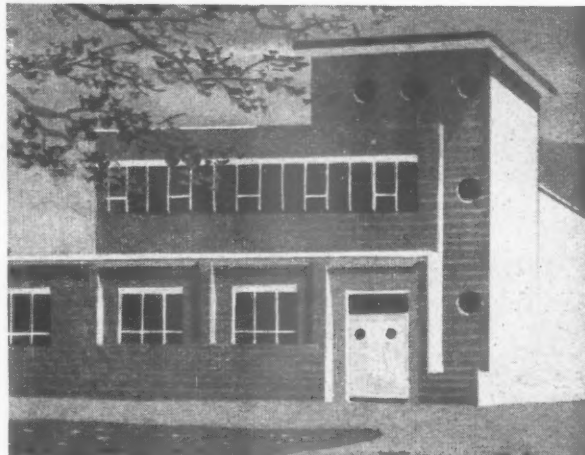
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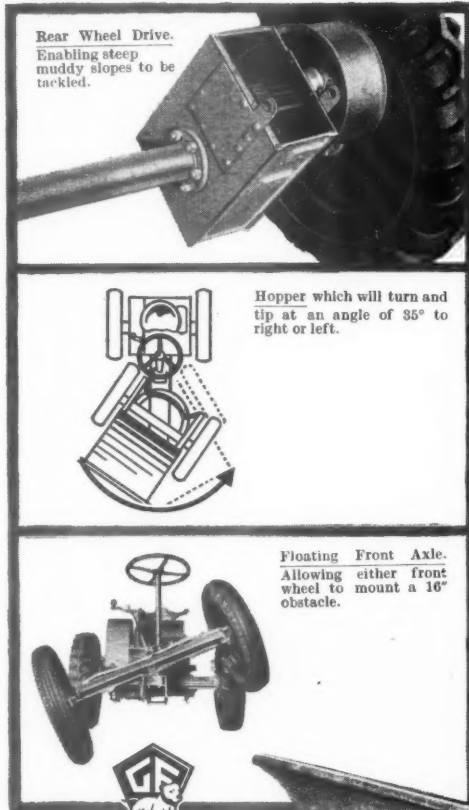
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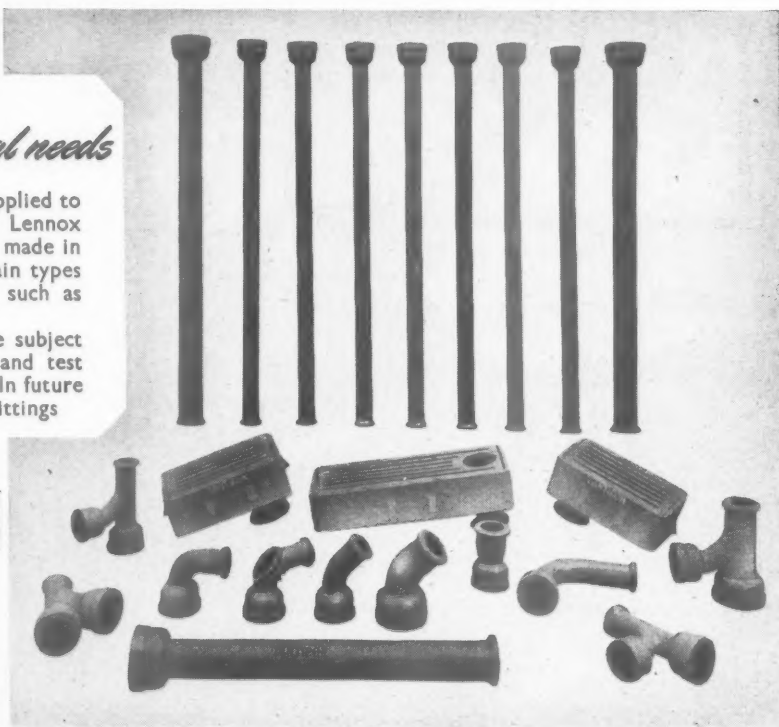
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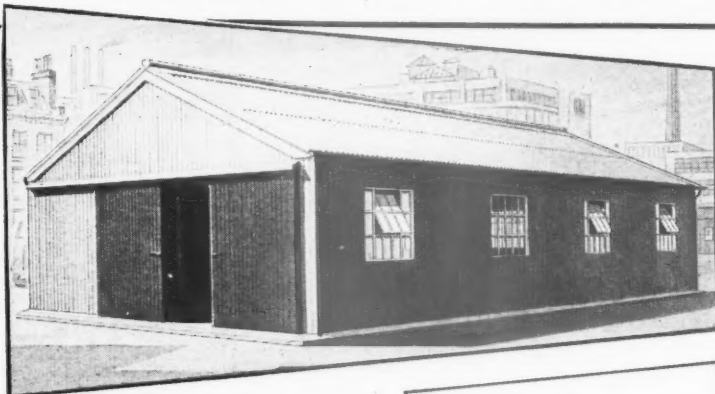
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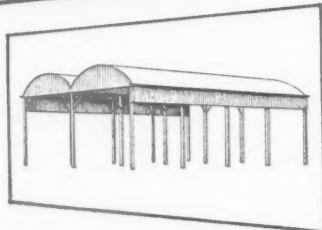
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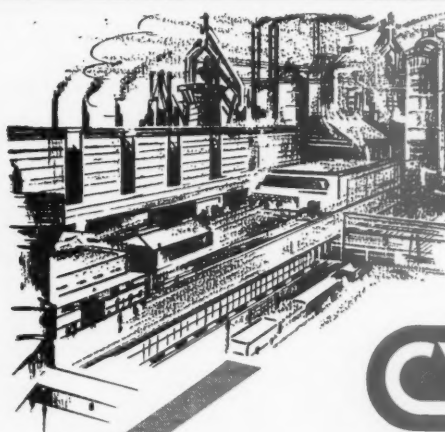
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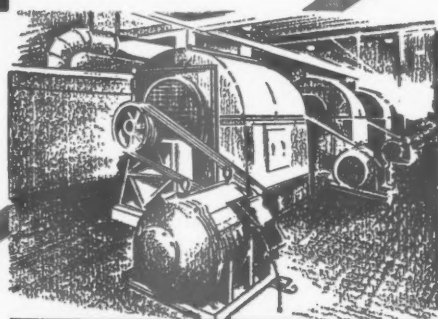
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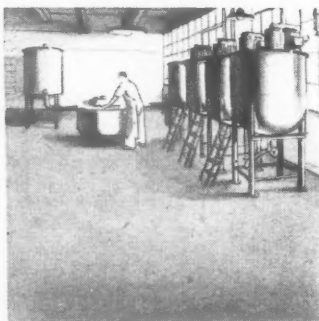
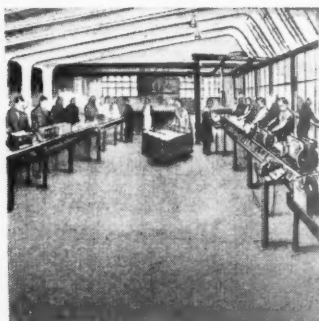
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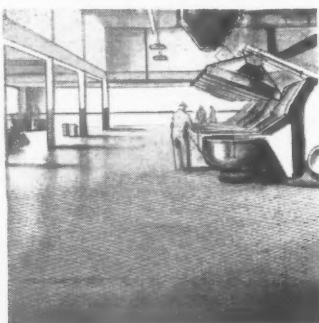
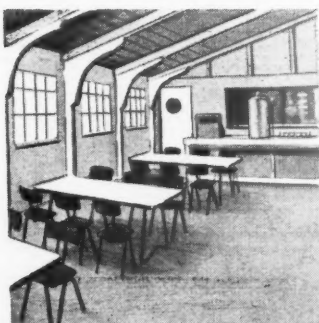
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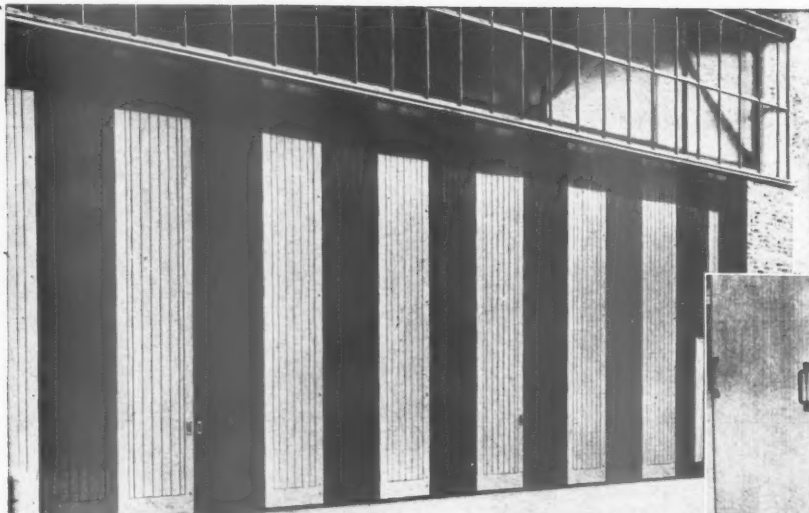
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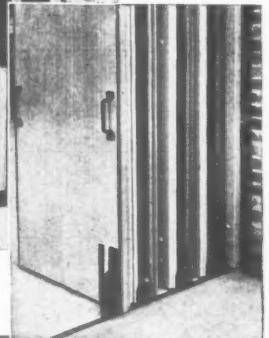
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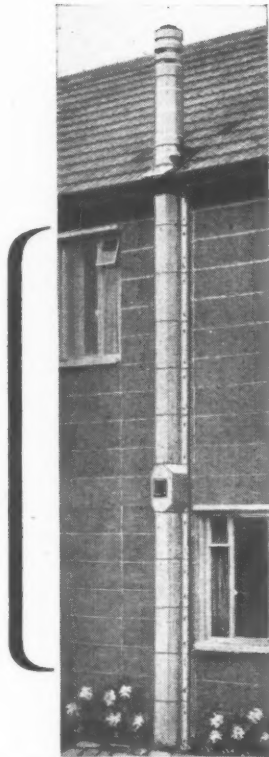
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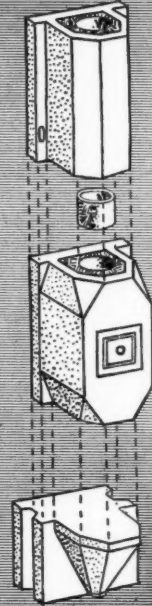


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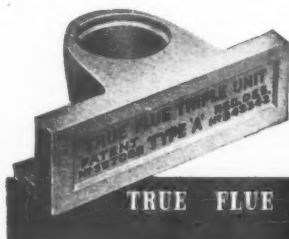
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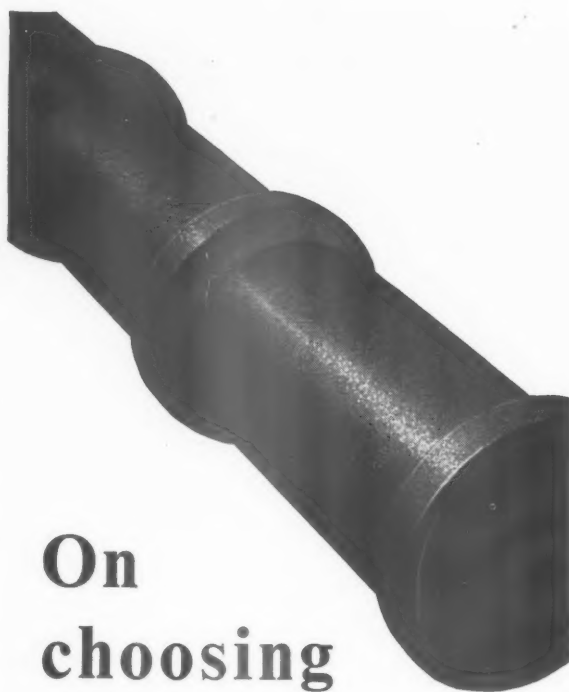
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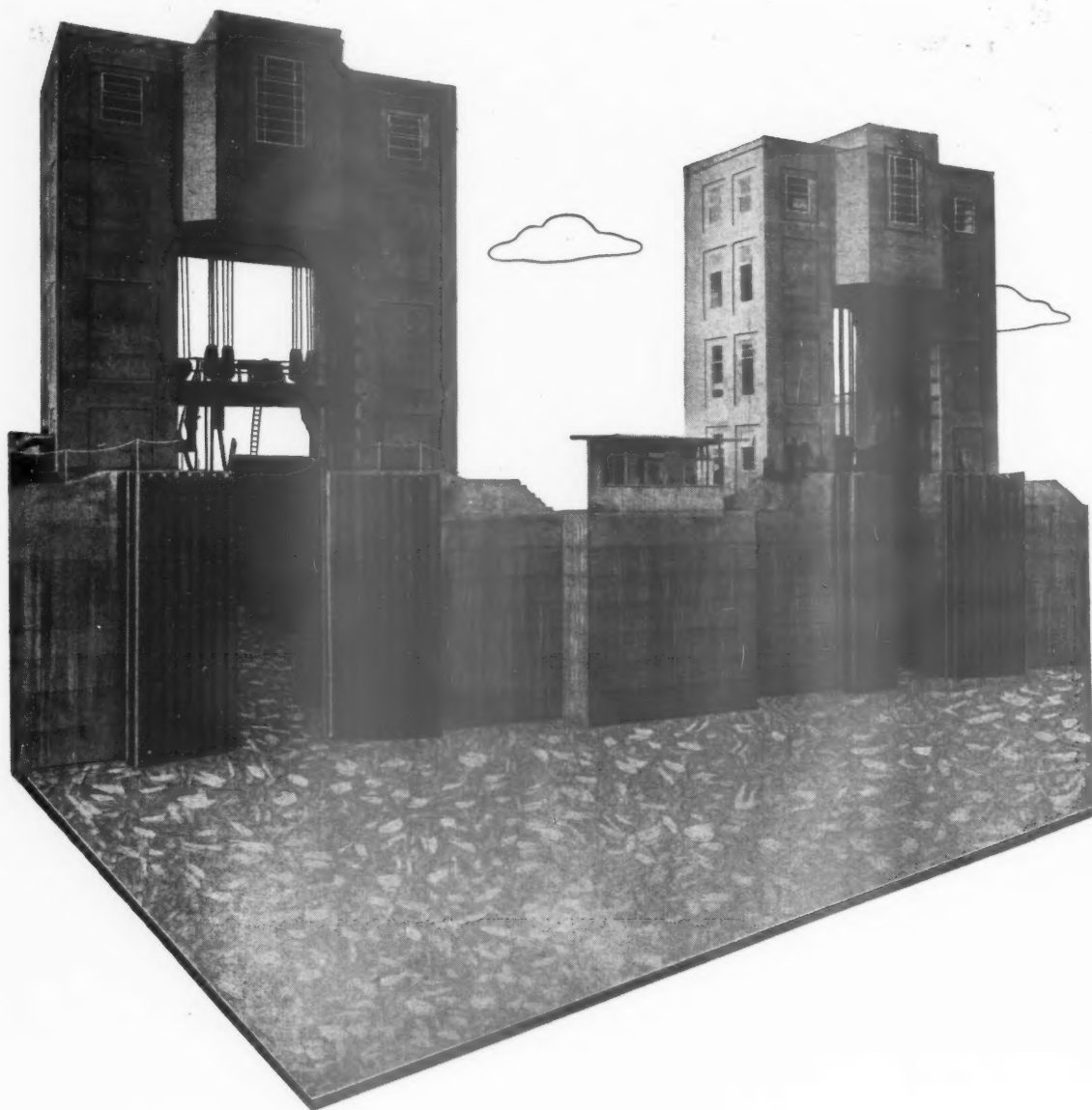
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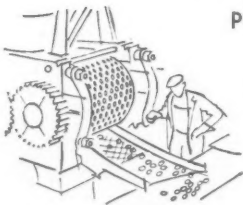
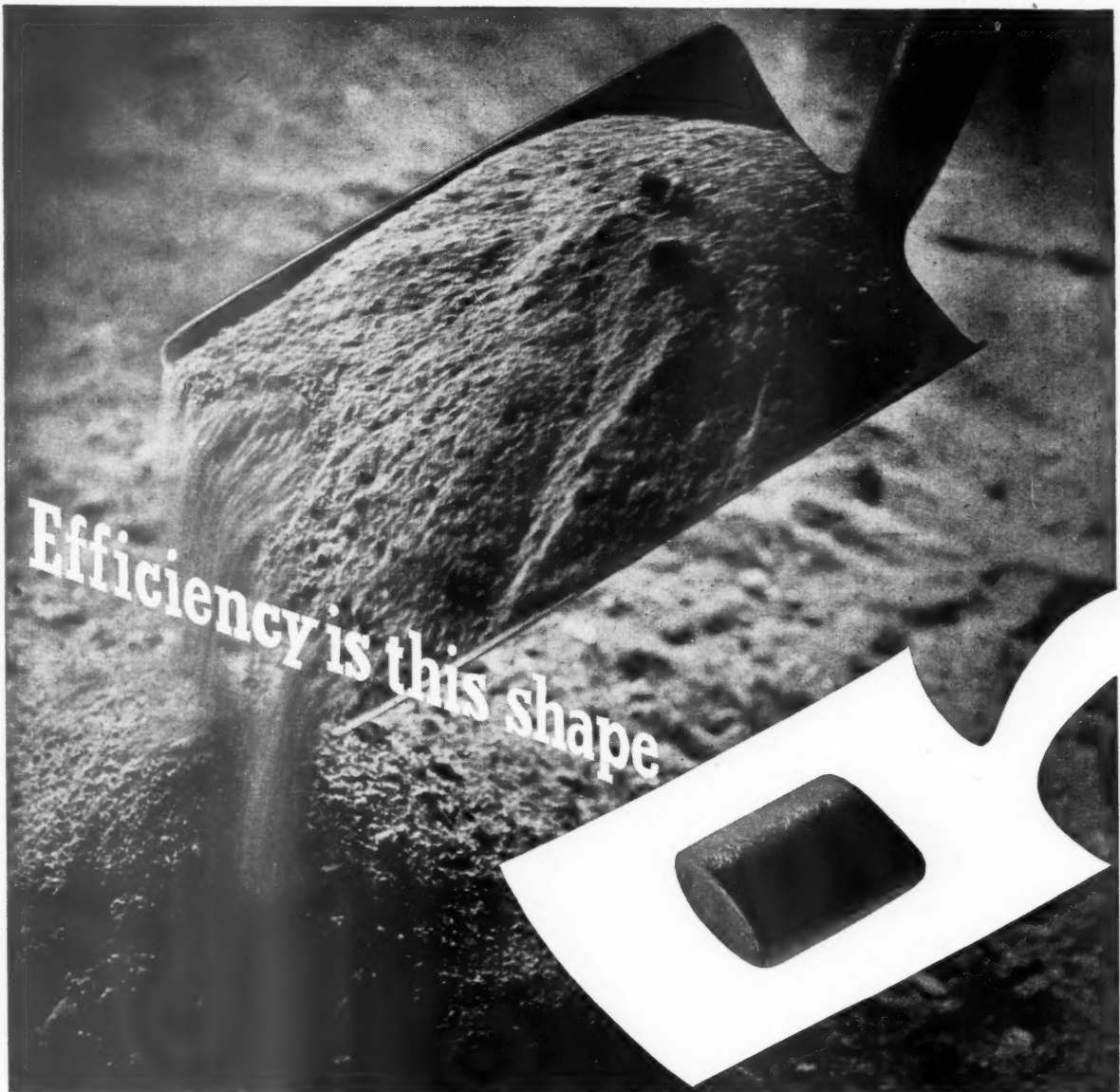
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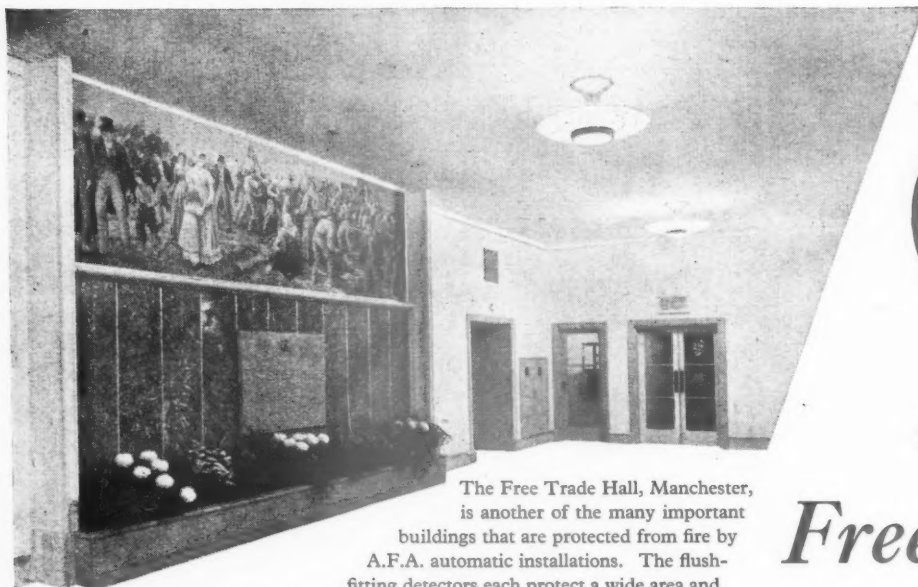


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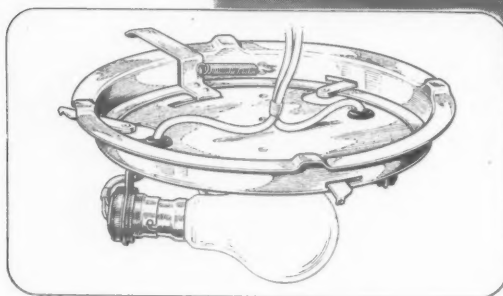
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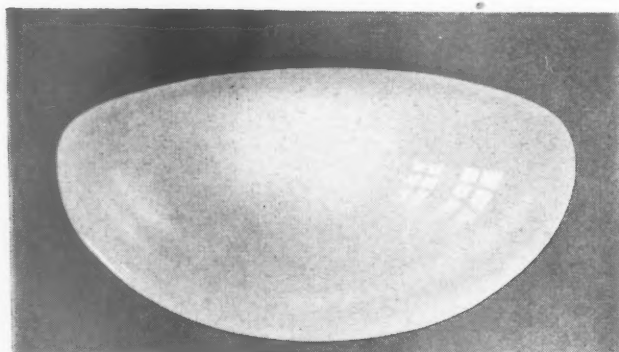
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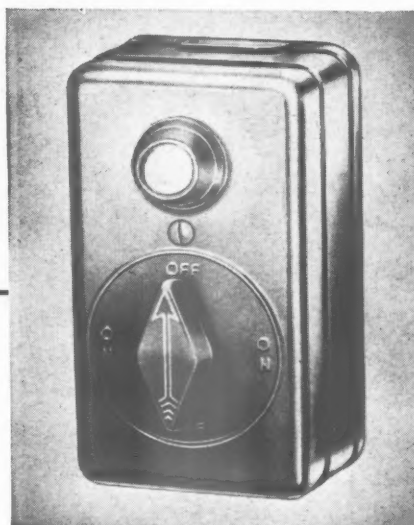
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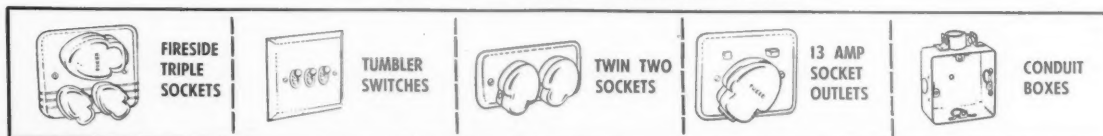
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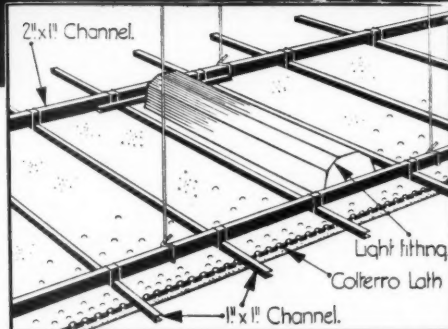
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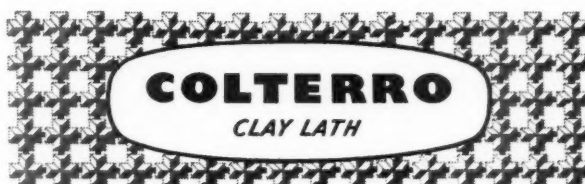


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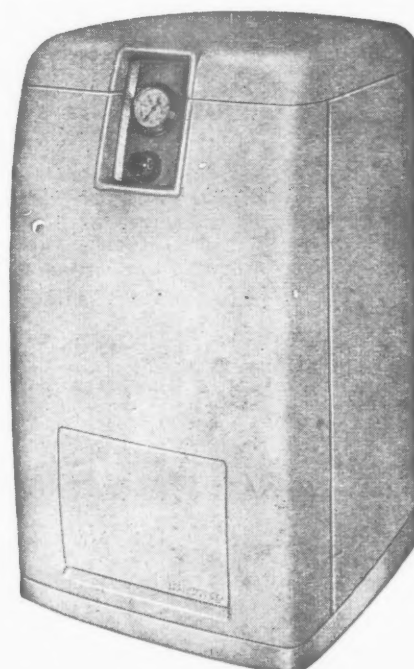
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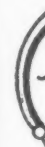
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ALLEN-MILLS, TECHNICAL TURN

The attempt made by the South-Eastern Society of Architects last year at Folkestone and Canterbury to put some conferring into the British Architects' Conference has been successfully continued by the Devon and Cornwall Society. A colleague's report, confirmed by several architect acquaintances, is that William Allen and Edward Mills, in delivering a synopsis of the previously circulated paper on Materials and Techniques, have discovered an admirable technique for stimulating discussion and making the audience feel that it is taking part in, and contributing towards, a really important meeting. Each speaking in turn, answering points raised by (occasionally primed) members of the audience,

and sometimes chipping in on each other, with slides, and samples of new materials (including an interesting new, moderately-priced, coloured, fired, finish to sheet steel), and each with a delightfully simple, informal (thank heavens), and witty way of talking, they kept an audience keenly interested for altogether nearly five hours. Allen and Mills, in fact, were the conference.

The rest of the events were, I learn, much as previous years. They went off with the smoothness which comes of careful planning and preparation, and lavish West Country hospitality, if without the extra pleasure of the unexpected or unusual event which other conferences have been able to achieve. Last year there was the interesting schools exhibition and the inspiring cathedral service—Edinburgh had penguins, and, to English eyes, the exciting, near-effrontery, of Highland dancing; Bristol borrowed Bath; and Liverpool had a cathedral service, the Philharmonic orchestra, and one of the finest suites of rooms for civic receptions in the country. But Torquay, poor Torquay, has not got any comparable asset. Its public rooms, at the Marine Spa and the Town Hall, are acoustically bad and architecturally dreary. The former has had its simple physical charms ruined by tawdry festoons of light fittings and punkahs, spoiling the line of its iron-trussed roof, and by a third-rate colour scheme; the latter also has dull colours and dreary furniture and fittings, out of harmony with its Edwardian character—the town should organize a competition for local architects to devise a better treatment for these important rooms or, better still, for a new dance hall altogether.

Torquay's assets are, surely, its fine coastline and surrounding countryside—one or the other might have been brought in to the conference more obviously.

The following points are for those who are starting to think about next year's conference: avoid cabaret turns of the unsophisticated "Twinkle" variety; avoid speeches—however much Bill Spragg says that it is essential conference etiquette—by Mayors, or even Lord Mayors. Ensure that people know what to see and where to go at the garden party; tea in a marquee and an exhibition of local members' work is not quite enough to give a party atmosphere. Find someone—other than the President—to give a lively, architectural, quotable and reportable speech at the conference dinner. And then, provided the conference proper is as good as Allen and Mills, and others, made it this year, ASTRAGAL will look forward to it very much.

This may sound over-critical. It is not meant to be so. The RIBA and the Devon and Cornwall Society have produced one of the best, if not the best, of the post-war conferences. As has been said in this column and elsewhere, however, the whole conference procedure can still be improved, and it is good to know that a special committee is studying the matter on a long-term basis. Meanwhile, the ball is in the West Yorkshire Society's Court.

THE FLOWER SHOW

ASTRAGAL was fortunate in being able to spend a few moments in the insufferably crowded, but almost pre-war, atmosphere of the Chelsea Flower

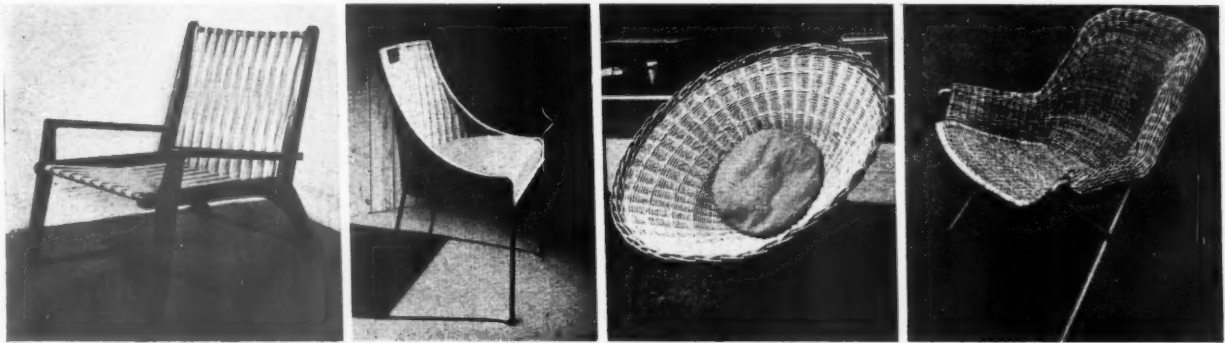
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Some of the furniture exhibited at the Chelsea Flower Show (see note below). Left to right : folding chair, by R. L. Broadbent ; indoor or outdoor chair, by Michael Inchbald ; cane basket chair, by Terence Conran, and terrace armchair, by N. Slater. The furniture display in which these items were included was sponsored by the Royal Horticultural Society and selected by the COID. (Photographs reproduced by permission of the COID.)

Show—such a fascinating compost of podgy little debts attached to Old Etonian ties, and earnest old gardeners comparing quavering notes—"yes, it was mild—so I managed to survive the winter—I'm relying greatly on a new John Innes mixture. . . ." The flowers, as usual, were largely unfortunate—too large, too formal, too pastel or too coarse (my poor eyes are still glazed—the glare of those spotted, evil, red and yellow, better-than-dayglow calceolarias). The vegetable displays—the only folk-art the Jones's haven't caught up with—were, as usual, magnificently inedible, and the outdoor gardens were slightly better than last year (only one rustic horror—and Messrs. Wallace of Tunbridge Wells had been successful with concrete tubs and careful paving, slightly marred by a "free shape" shelter).

The COID, bless them, were struggling to show these gardeners that garden seats don't have to be coarse or rustic. Of the benches, the steel rod and hardwood affair, designed by Gordon Symondson, which won an award in the COID's outdoor seats competition last year, remains the best, with the award-winner by John Morton and Tom Lupton a good runner-up. Christopher Heal's stool is pleasant enough and so is R. L. Broadbent's folding, webbed chair. Terence Conran's conical cane and metal rod chair is, surprisingly, very comfortable and with N. Slater's armchair of the same materials (arms too low) probably the best of the lot. Most disappointing—despite its elegant shape and use of new technique—was Ernest Race's chair for the Orient Line, illustrated on this page and described in this column on April 15. ASTRAGAL'S

terribly average body found the simple fault that the vertical back tends to push his head forward insufferably and press his incipient double chin too near to his breastbone.

COUNTY BUCKS UP

During the last year both the county and deputy county architects of Bucks CC have left their jobs, and one might have supposed—after reading a sensational news story in a Sunday paper—that all was not well in the County Council's offices.

It is, therefore, comforting to be able to report that under a new county architect, Fred Pooley (who, as Donald Gibson's deputy, helped to get things moving in go-ahead Coventry), it looks as though the architect's department is going full steam ahead—take a look at pages 672-674 and see for yourself. The department has the confidence of the MOE, and the latter's prestressed concrete structural system (developed in conjunction with Gilbert Ash—the prototype is at Worthing) is being used in a secondary modern school at Slough. No doubt Pooley has a number of other schemes afoot for ensuring that Bucks will in due course take its place amongst the all-too-few architecturally progressive counties.

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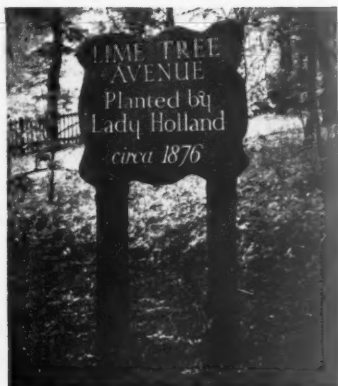
At last a competition assessor has taken the trouble to do his job well. Congratulations to Ronald Bradbury, the assessor of the competition for a crematorium for Kirkcaldy, on his 2,500-word report. In this report, Mr. Bradbury gives a *résumé* of the competition conditions, describes those things most commonly overlooked by entrants, mentions details which led to the rejection of "some quite attractive

schemes," and gives three foolscap pages to a comparative discussion of the three winning designs.

For once the entrants to an architectural competition will have the satisfaction of reading a full account of what went on in the assessor's mind as he sorted through the entries. But those who cannot recognize their own work under the critical headings of "too monumental," "insufficient study given to the problems of circulation," "expensive and difficult to construct," "lack of integration," "glaring plan faults," and so on, may feel they have one real cause for grievance. The second and third prizewinners' designs would, in fact, "cost rather more than the amount which the promoters had in mind." Should competitors who ignore the cost restriction be awarded a prize? Robert Matthew and his fellow-assessors for the Sighthill competition did not think so. ASTRAGAL doesn't think so either.

HOLLAND PARK

On a hot steaming morning in West Kensington, when ASTRAGAL went for his privileged preview of the LCC's new open-air sculpture exhibition in Holland Park, many of the art-works looked as if they had shot up damply in the night out of the over-green evergreens, and some of the plants looked as if they needed plinths—so hot and steamy that one began to envy the scoop-necked sweaters of the cameramen's molls poised in attitudes of feigned attention beside the statuary. ASTRAGAL is not really qualified to expatiate (who is, indeed?) upon the quality of the sculpture, but the manner of its display does seem to require comment. The Holland Park site lacks the



Art In The Park

On payment of one shilling and threepence the public may view the LCC's international exhibition of sculpture in the newly-opened section of Holland Park. But for no price at all they may see half-a-dozen examples of the unfortunate kind of art which the LCC's Parks Department is too often responsible. On this page is shown two of the notice boards—designed with ghastly good taste, the crude catalogue counter, the pseudo-Queen Anne Gate facing Ilchester Place, the furniture used in the Garden Ballroom restaurant, and a contemporary near-miss—a cumbersome turnstile entrance to the exhibition. The LCC's work in the park is discussed by ASTRAGAL on the opposite page.

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POINTS FROM THIS ISSUE

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| The Torquay Conference | pages 663, 675 and below |
| Kirkcaldy Competition results | pages 665 and 675 |
| The Profession and Trade Unionism | pages 668 and 669 |
| Modular Co-ordination in Belgium | page 685 |

The Editors

THE TORQUAY CONFERENCE

ONLY a few minutes after William Allen and Edward Mills had started discussing, with their audience, their paper on materials and techniques it became evident that this year's Conference at Torquay was going to be a tremendous success. For some years we have been pleading for a serious annual Conference for architects, side by side with the annual social high jinks. Last year, at Canterbury and Folkestone, a start was made, and the advance achieved then in bringing about a conference in which the members could sit back and both learn and expound their own views and describe their experiences has been carried a good step forward by the organizers of the Torquay Conference.

The only dangers lie in over-enthusiasm. The Allen-Mills paper (see extracts in last week's AJ) was extremely comprehensive. As a result there was almost too much to talk about and a tendency for the discussion to skip superficially over a vast range of subjects. Another potential danger arising from an excess of enthusiasm is the over-use of the profession's best. The Torquay Conference is fortunate in having in Allen and Mills two of the most intelligent architects and most lively speakers in the profession. No doubt there are other architects who, given the opportunity, could be so learned and so enlightening on a difficult subject which is also of universal interest. But until they are found, the prospects for the organizers of next year's Conference at Harrogate, the West Yorkshire Society of Architects, are not so happy. One way of using the profession's resources of mental wealth economically and fruitfully might be the dividing of the subject of a conference into several items which could be discussed in greater detail by a larger number of speakers. Then the rather stultifying necessity of having to choose one of the rare general subjects which suits every architect—whatever his type of practice—would be avoided, the chances of finding good speakers would be widened, and (by splitting up the audience into more manageable—and less intimidating—discussion groups) active participation by the profession would be increased.

Such points are, however, for the Harrogate architects to worry over during the coming year. At the moment the main thing is to congratulate the RIBA, the Devon and

topographical unity of the one at Battersea; it changes levels suddenly and it changes character at one end. Some of the figures seem to have got lost in remote archipelagoes of trees as a consequence, but two particularly successful passages are, firstly, a slope which a Hepworth, an early Epstein and a Mestrovic share with some spiky dwarf palms, and, secondly, a broken arcade beyond the Dutch Garden, in front of which are ranked a Maillol, a Wotruba, and a Rodin and a Manzu which in many people's eyes seem to rank as equal first preferences in the show.

ASTRAGAL, with his keen, trained nose for news and scandal, climbed a few chestnut fences and snooped around the rest of the park to see what goes on, and is not altogether happy about what he saw. Admittedly the LCC are having to do the job on a shoe-string, but it is possible to have more taste than money and the Parks Department seems not to know this. Since the park already contains examples of how to use chestnut paling properly, if you *must*, why is it used so badly in other places? Who, if money is short, sanctioned its waste on those terrible, illegible, wainey-edged notice-boards which set out a list of prohibitions grim enough to choke off any visitor who didn't know that there aren't enough staff to enforce them. And why those new, pseudo-Queen Anne gateposts at the main entrance, when the only sufferable alternative to contemporary is so obviously Jacobean. As for the house itself, it is vanishing fast, and the hopes we were encouraged to entertain after the last hand-out, that a sizeable ruin would remain, are clearly being sold down the river.

ART FOR THE PEOPLE

ASTRAGAL was dismayed to learn at a lunch held by Festival Gardens (London) Ltd. that this company, which has a 21-year plan for Battersea, disapproves of what it calls "the policy of giving people what they should have." The new company proposes to give the people what they want. Which means, of course, that the company will give the people *what it thinks they want*. A beginning has been made, but I shall hold my peace until I have more space to report on the sad doings at Battersea.

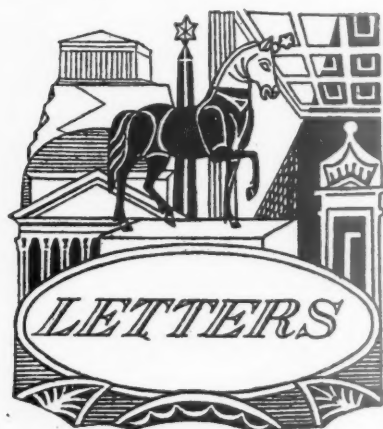
ASTRAGAL

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Cornwall Society, William Allen, Edward Mills, and, of course, a large number of readers on having maintained new and progressive tradition for the British Architects' Conference.

THAT UNION AGAIN

Martyn C. Webb, who writes in this issue on "The Profession and Trade Unionism," says it would be inadvisable for the profession "to hand over its 'sovereignty' to some larger trade union body, which embraces all manner of people, most of whom are likely to be non-professional in outlook." It would be equally inadvisable, in our opinion, for the RIBA to take the *Builder's* advice (given on May 21) and to accept BAG—the union formed by the IAAS. People might well hesitate to join a union, even if it had the approval of the RIBA, if some small body had taken part in its formation. It would be good to see the union experts from NALGO, the ABT, the IPCS, and even BAG—if it has any experts—combining with the RIBA to help form the type of organization which could best serve the interests of all salaried architects. (We are glad to hear that the RIBA is very sensibly discussing the matter with the ABT.) But if a combined operation is out of the question, let us have no liaison between the Royal Institute and only one other body. The Institute should be able to do very well by itself; it has the goodwill and the support of the best of the profession.



P. P. Grone

S. M. Palmer, A.M.T.P.I., and
D. H. F. Lackford

Eric de Maré, A.R.I.B.A.

A. W. Acworth, Secretary of Georgian
Group

C. L. Haddon, Chief Chemist, The British
Plasterboard (Holdings) Ltd.

Henry R. Humphreys, A.R.I.B.A.

Domestic Architecture

SIR,—As has been shown by the recent RIBA survey it appears that there is a need for a negotiating body with a wide programme including the improving of the financial position of all architects, whether

employed by local authorities or by private architects.

Its first step would be to bring to the notice of the public and the MOHLG the value of good architect-designed houses, as it is through domestic architecture that the public will learn to use the services of the architect.

A scheme might be developed whereby the less demanding client would be able to choose from a wide variety of plans published in book form. From this he would choose the plan which suited him best and purchase the plan and specifications at a reasonable price. An extra fee

Votes for the new RIBA council members must be received by Tuesday next. If you have not yet completed your voting form, may we remind you that the JOURNAL for May 13 contained statements by candidates for election. We suggest that you read these statements before sending in your votes.

would be paid by the purchaser for the examination of the plans by the appropriate local authorities, the architect having taken care to see that his plan met with local authority requirements.

The examination of plans submitted should be by an architect and not, as at present, in the majority of cases, by an engineer.

Such a negotiating body would leave the RIBA more time and energy to organize competitions, exhibitions and lectures in provincial as well as in London Centres, efficient architectural school training programme, promote research and further education in architecture. Also bringing Architecture to a higher level.

Hebburn on Tyne.

P. P. GRONE.

Are Architects No Better than "Spec." Designers?

SIR,—With reference to your leader of April 1, we, as members of a Planning Officer's staff, would like to share your view that common-sense values are upside down if the employment of an architect does not mean that planning permission will be obtained more smoothly, but the fact is, in our experience, that in many cases this is not so; not because the designs submitted are "contemporary," but because they are either the "Tudorbethan" monstrosities which you are always attributing to speculative builders or persons other than qualified architects, or else the applications submitted are casual and incomplete or without adequate site plans to enable one to recognize the location. Quite frequently the scale is omitted or is incorrect, and on one occasion an architect had submitted no less than twenty-two sheets of 1/4-in. scale drawings in respect of a small house, but omitted to tell us one of the most important things, i.e., the type and colour of the external finish of roof and walls.

The implication in your issue of April 1 that all will be well if Planning Officers are qualified architects is quite unfounded and proof that you know little of the proceedings of Local Government Committees. It is they who make the decisions, very frequently against the advice given, although it is only fair to say that they cannot but bear in mind in many cases the existing site conditions, and appeal decisions which have been made by the Minister on similar cases.

So far as the leader of May 13 is concerned and the frontispiece photographs of work carried out, presumably without the employment of architects, we must say that such work is typical indeed of designs submitted to us by architects, and it is quite obvious to us that, whether or not the average architect over 40 is interested in good and/or contemporary design, he is prepared to design to his client's wishes rather than forego the work.

No, it is not a question of going to an architect, but rather one of going to the right architect plus an improved appreciation of aesthetics by the layman and members of the committees concerned.

Modern educational methods will undoubtedly give future generations a better appreciation of design and, in the meantime, we consider that members of Town Planning Committees should receive some grounding in aesthetics.

S. M. PALMER.

D. H. F. LACKFORD.

Bucks.

Visual Decadence

SIR,—Many thanks for your interesting leader and pictures of spec. houses (May 13). The inference surely is that the majority of people in this country, including those who control house design and environment in general are not interested in visual aesthetics.

Part of the trouble is lack of public education and of sound, adapted tradition—truly modern design being the only truly traditional design. But the main trouble lies in the half-conscious hatred and fear of beauty that is widespread in this country.

It is time we tried to analyse the reasons for this. They are deep and difficult to deal with, but it is clear that they are related to our ingrained puritanism and our whole unconscious attitude towards money, life and pleasure. Once again, I implore you to venture outside the circumscribed architectural sphere, for within it you will not discover the ultimate causes of our visual decadence.

ERIC DE MARÉ.

London.

Georgian Shop-Fronts

SIR,—I have had my attention drawn to ASTRAGAL'S reference in the JOURNAL of April 22 to the proposed demolition of the Georgian shop-front in Banbury and to his comment that "nobody turned up to say why the shop front should not be demolished." It is true that the Georgian Group could not go to the expense of being represented at the inquiry. None the less we did make representations in the strongest terms both to the County Planning Officer and to the Ministry of Housing and Local Government.

The decision probably went against us for the reason that the woodwork of one of the bow windows was in such a dilapidated state that extensive renewal would have been necessary if it was to be retained.

A. W. ACWORTH.

London.

Plaster Board: A Misconception

SIR,—The technical discussion in your issue of March 25 on better fire protection makes very interesting reading.

The various articles contain a number of references to plaster board which shows a misconception of its properties which one hopes is not general, but as they appear in a JOURNAL of your repute, I am sure you would prefer that they should be corrected.

After very fairly pointing out that plaster board is readily obtained, easily worked and fixed and does not require to dry out, the statement is made that "The Architect may argue that it (plaster board) lacks any sound or heat insulating properties, and, worse still, aggravates sound transmittance."

We had not realized that the heat-insulating properties of plaster board were erroneously thought to be so poor. Actually the "k" figure for plaster board is 1.1 according to NPL figures. This means that it is nine times as good as concrete for thermal insulation purposes.

But even better heat insulation can be obtained by the use of insulating plaster board which is specially manufactured for use where thermal insulation is of first importance. This is accomplished by applying, during manufacture, a veneer of aluminium foil to one surface of the plaster board, and the board is always used with the foil next to an air space. Here, again, official NPL figures show how good it is. The so-called "C" or conductance figure for $\frac{1}{2}$ -in. insulating plaster board plus an air space is exactly equal to the figure for $\frac{1}{2}$ -in. fibre-board with an air space.

The cost of insulating plaster board is little more than that of ordinary plaster board.

Relatively new materials are often first examined *in situ* in an empty house, and they always seem to be noisy. In fact plaster board for its weight has quite good sound insulation properties. Tests carried out at the NPL show that one may easily construct a partition of plaster board coated with gypsum plaster which has a sound insulation of over 45 decibels. The figure for a 4½-in. brick wall is 45 decibels.

We are very pleased to note the interest taken in the possibilities of Vermiculite by the Fire Protection Officer. It is undoubtedly a material of the greatest importance where Fire Protection is concerned.

Fortunately gypsum products are also extremely good in this respect. A lump of gypsum contains virtually half its volume of water chemically combined, and this has all to be boiled away before any dangerous heat can pass through plaster board. The substitution of Vermiculite for plaster in the core of plaster board therefore brings no advantages. But Vermiculite as an alternative to sand in plaster mixes adds greatly to the fire protection qualities, and Vermiculite plasters are gradually being specified

where plaster is part of a structure involving fire protection.

These discussions where every point of view is given must be most helpful, and the purpose of this contribution is to complete the picture by correcting one or two misapprehensions.

C. L. HADDON.

Nottingham.

When is a Door Soundproof?

SIR,—I would like to comment on the publication in the JOURNAL for April 8 of a Working Detail for what is described as "a soundproof door." This seems to me a perfect example of a common misconception, namely that by applying a sound absorbent surface to something you materially increase its sound insulation.

I suggest that the increase in insulation over that of an untreated 1½ in. solid core door (say 31 db) is no more than 2 db,

which can be assigned to the slightly greater mass of the assembled article. I do not think any door should really be classed as "soundproof" unless its insulation is nearly equivalent to that of the partition in which it is inserted—say 45 db in this case.

On the other hand, there are some very good points in the design. For example, the edge sealing which should both allow the door to reach its nominal value (i.e., no loss due to cracks) and, what is more important, greatly reduce door banging.

I do not want to imply that the door is inadequate for the purpose for which it was intended, or that it is not more soundproof than a normal door built in a conventional manner. My concern is that the term "soundproof" might lead readers to imagine a performance considerably in excess of that of which this construction is capable.

HENRY R. HUMPHREYS.

Bucks.

In his concluding article (January 28) as Guest Editor of the JOURNAL for 1953, Professor Bowen mentioned the need for some organ within the profession for dealing with economic matters. Since then the RIBA has published the report of its Salaried and Official Architects Committee, and has asked its members for their views on the foundation of a "trade union,"—and the IAAS has formed an "independent" trade union. In this article Martyn Webb, who assisted Professor Bowen in his JOURNAL-sponsored analysis of the profession, writes about the problems the profession is faced with if it is to have a trade union.

THE PROFESSION AND TRADE UNIONISM

By Martyn C. Webb

Even today, as both the RIBA and JOURNAL surveys of the profession have shown, a large percentage of all employee members of the profession regard the status of an employer of labour—i.e., a principality in private practice—as their ultimate aim.

Thus, the architectural profession, while composed of a large percentage of employees,* has an employer's outlook, which extends into the minds of employee architects. It would not be wrong, therefore, to apply the term "employers' unions or federations" to the main professional bodies as they stand at present. The most obvious example of what I have in mind is the way in which the RIBA has established and enforced (as far as it is able) the standard scale of charges: a device for

fixing employers' remunerations. Historically this can, of course, be justified, and since it is a unilateral agreement, made without negotiation, it does not seem to run counter to the spirit of the Charter.

For as long as private practice was the main and only form of architectural employment, this apparent disregard for the employee or assistant architect could logically be explained by the fact that at any time the assistant could himself become a principal. Therefore, to raise the wages of assistants could be regarded by assistants themselves as threatening their future remuneration as principals. Today, however, the position is quite different; there is the public office (and, of course, those in commerce and industry) where within the organization itself there is no hope whatsoever of an architect ever being anything other than an employee. And for many reasons the chances of employees ever becoming principals or employers of labour in private practice have considerably diminished. This has been partially recognized ever since the formation in 1928 of the Committee now known as the Salaried and Official Architects.

This committee has had to face the fact that "by no fault of the Royal Institute, its ability to undertake protective activities was greatly restricted both by its own constitution and by those of several negotiating organiza-

*The structure of the profession embraces four main types of members; (1) employers of labour; (2) self-employed; (3) employees in private and commercial practice and (4) employees in public practice. The first two types correspond, of course, to principals in private practice; in the first case to those who employ assistants and in the second case to those who work alone. The third type covers all those who are assistants in private and commercial practice. The fourth group has been used to emphasize the fact that no matter what the grading of the architect in public practice, he is, essentially, an employee. Indeed, this also applies to "principals" in both commercial and public corporations, as well as those who are employed by the nationalized industries, hospital boards, etc

tions dealing with architects' salaries." (The quotation comes from the summary of the Committee Report.) What appears to have occurred in reality is that the architectural profession, as a negotiating body, has lost its identity and in public practice has been lumped with all types, most of them non-professional, many of them unskilled and few extending beyond government service.

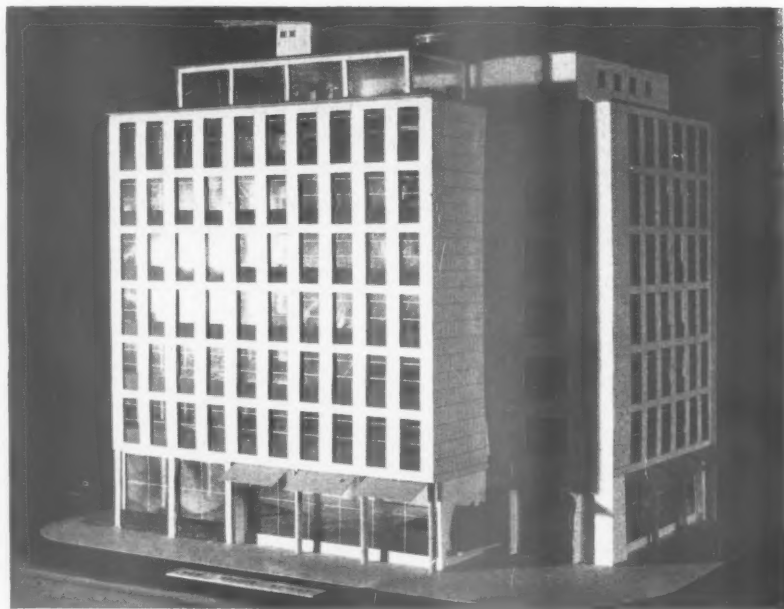
It seems that the profession, if it decides to have some form of "trade union," is faced with several important problems. First, it has to face the fact that it is not a trade, but a profession; that its outlook is not only coloured by all that this implies in the relationships between work and the man, but by the hopes of the assistant, no matter how vain, of being an employer. This ought to place the architect in a more favourable position with regard to master and servant relations, and should prompt architects to consider whether any proposed union should also control the Scale of Charges.

Under the same head, we must consider professional standards. Not the standards laid down by the codes of conduct of ARCUK and RIBA, but the kind implied by the term "standard of work" or business efficiency. These are outside the scope of æsthetic judgment but are often precisely those points on which the architect must depend for his survival. Thus while it is implied in the code of conduct that an architect will always keep in mind the best interests of his client, there is no professional penalty for those who are technically incompetent; and the play of the market has little or no terrors for the professionally incompetent public architect. Yet the hallmark of all professions must be and always has been the existence of high standards in workmanship, as well as integrity.

The second problem facing the profession is how to avoid a loss of identity; a loss which is liable to occur if the architectural profession hands over its "sovereignty" to some larger trade union body which embraces all manner of people, most of whom are likely to be non-professional in outlook. This is not simply a matter of snobbery but a matter concerning the importance in official circles of the architectural profession.

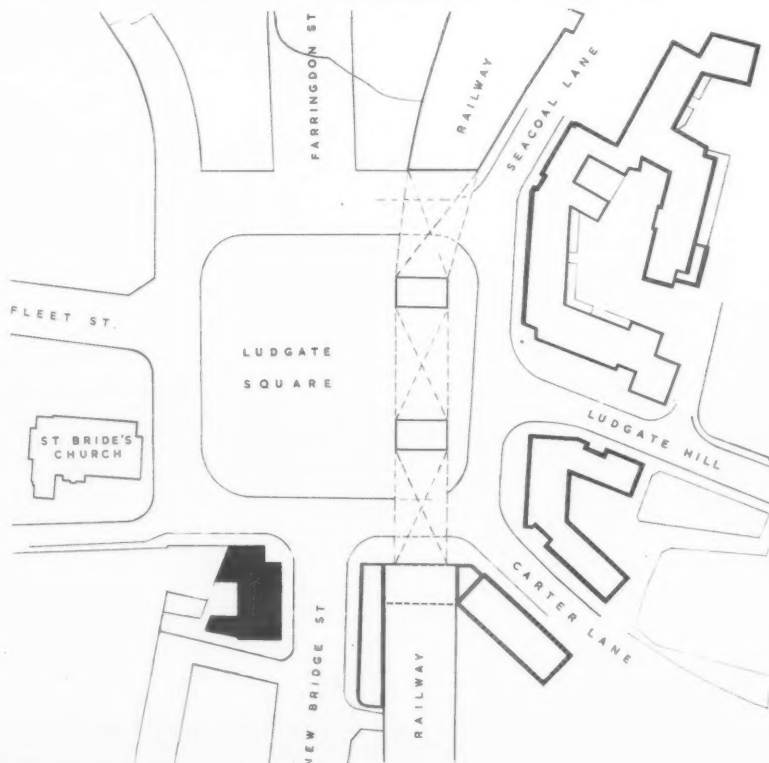
This leads to the third and possibly the most vital problem: the matter of recognition. It is one step to register a union, another to support it, but the final step—and often the most difficult—is the recognition of the association or union by the employing bodies. I do not think that this should provide any difficulty within private practice, particularly if the control of the Scale of Charges is also held by the negotiating body. But clearly it is a factor in official or public practice. The shortened report of the RIBA com-

BUILDINGS IN THE NEWS



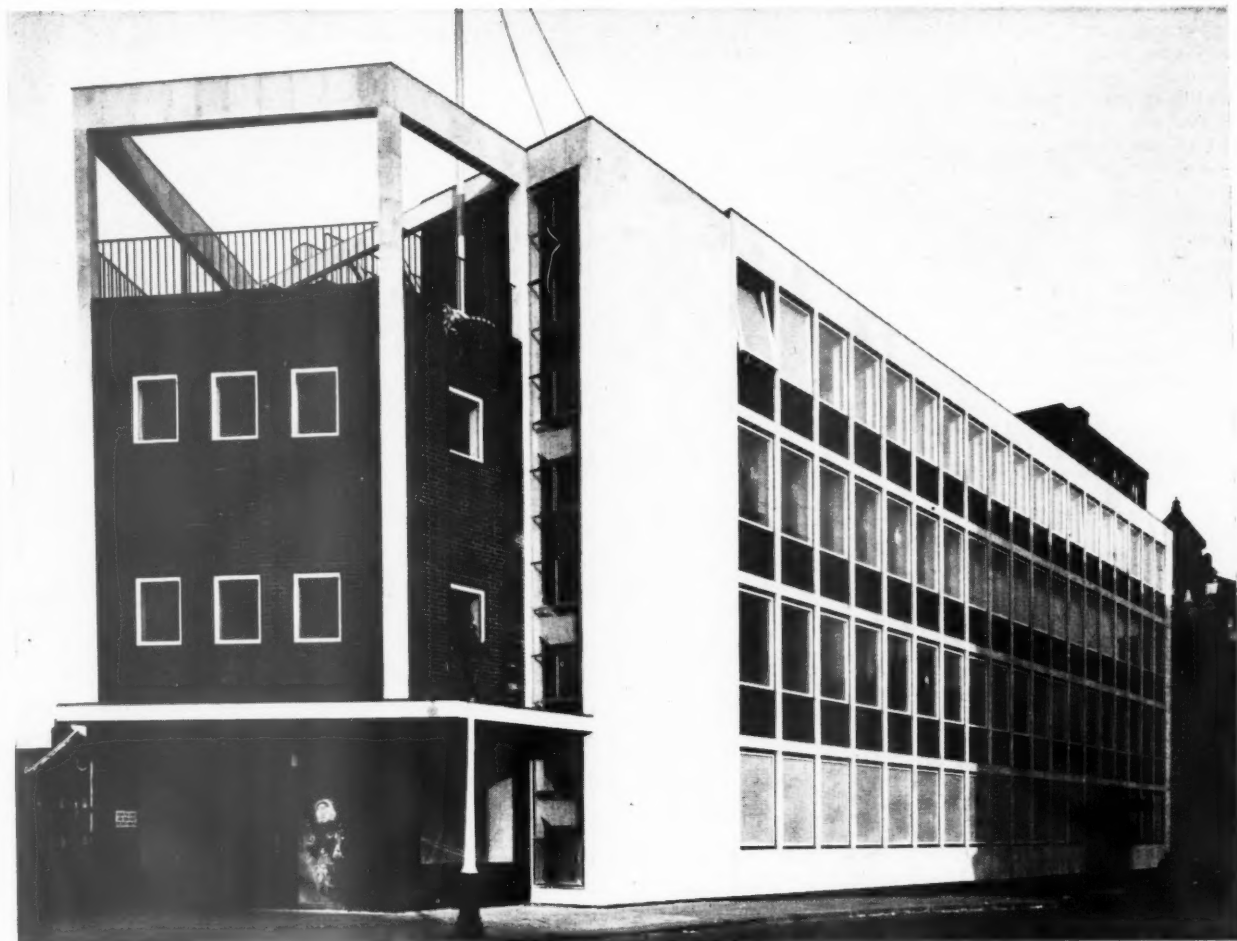
Office Building in Ludgate Square

This office building, designed by Alec Shingler and Frank Risdon, will form the first corner of the New Ludgate Square proposed in the City of London Plan, which when completed will be the foreground to the Ludgate Hill vista of St. Paul's Cathedral. The building will consist of six storeys of offices; this will give a total office floor space of approximately 30,000 sq. ft. with directors' rooms on the ground floor and staff canteen on the top floor. There is a small pent house on the roof of the main building and an underground garage. The building is to be steel framed.



Site plan of proposed layout

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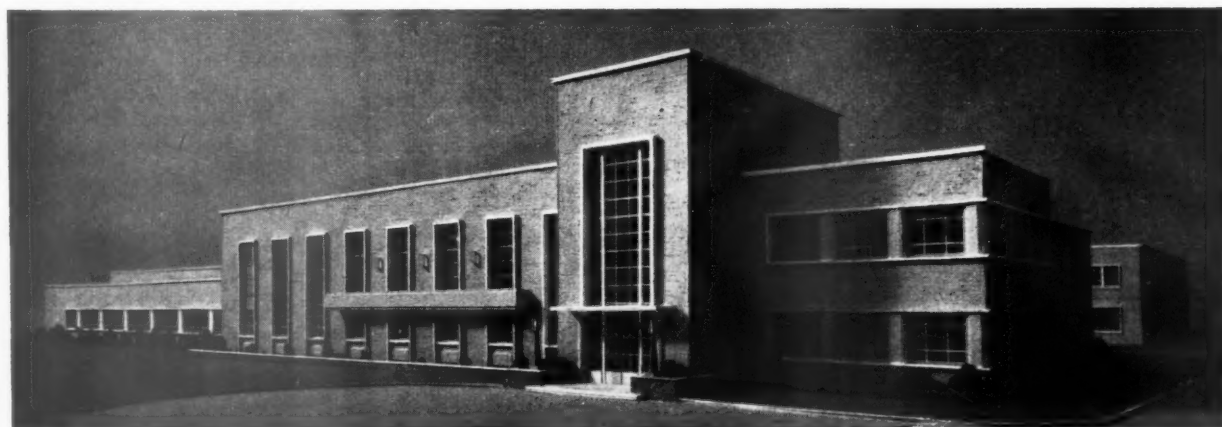


Fielden House, London Bridge Street, S.E.1

Fielden House, near London Bridge Station, has been designed for the King Edward's Hospital Fund for London by John Lacey (associate architect, C. F. Timothy) and consulting engineer, F. J. Samuely. The top floor is planned as the headquarters of the Emergency Bed Service and the lower floors form lettable offices. The photograph above is taken from the station yard. Fielden House will be illustrated fully in a later issue.

Motor Industries Research Association, Nuneaton

The Motor Industries Research Association, which was formed in 1946 to undertake co-operative research for the motor industry, has nearly 900 member firms subscribing to its activities, as well as a grant from the DSIR. New proving grounds and laboratories were opened on May 21 by the Minister of Transport. The laboratory block (below), which is at Lindley, near Nuneaton, was designed by Clifford Tee and Gale.



mittee indicates the difficulties which any new union will undoubtedly face from existing bodies, such as NALGO, and from what I have already seen, this fact has not been stressed at all in the IAAS proposals. As an interim settlement the new body might have to continue using, for example NALGO as the ultimate negotiating body. But before this is done, the architectural profession should require that a much clearer distinction is drawn within local government as between professional and non-professional employees. Not a distinction based upon the time-honoured method of separating wage earners from salary earners, but one which recognizes that the professional man is not only a highly qualified person, but one who owes allegiance to codes and manners applicable to all members of his calling; no matter their employment or degree of responsibility.

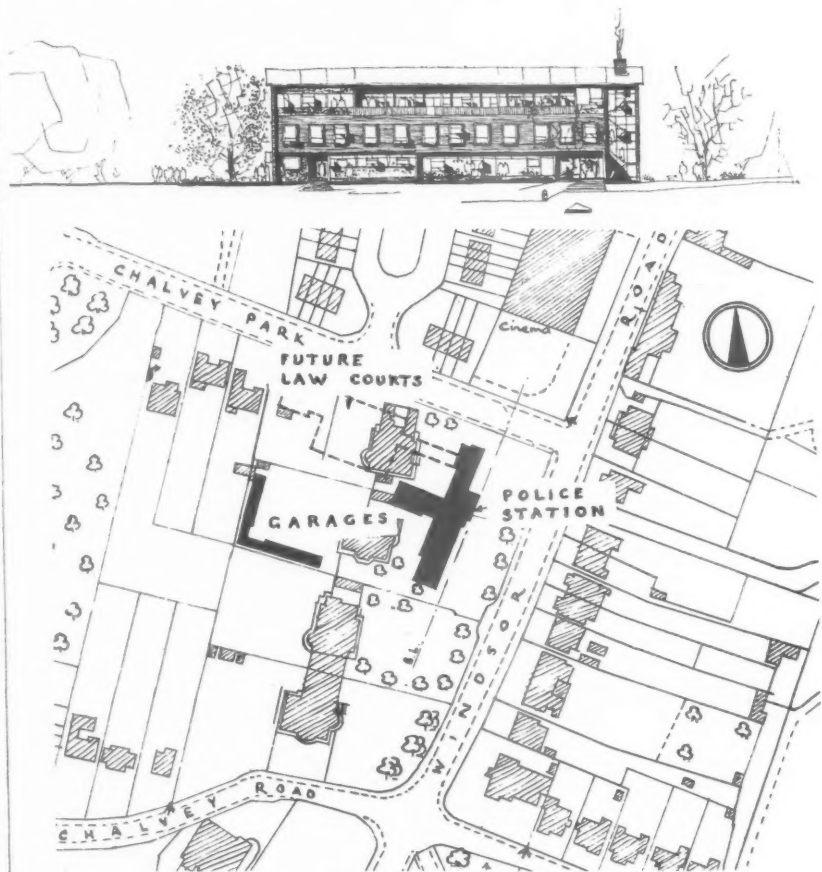
If this recognition were achieved, then the profession could rightly form a professional section of the main body, such as NALGO.

The final problem that must be faced is connected with the overall prosperity and well-being of the profession. In the past the RIBA has undoubtedly been restricted in its endeavours to further the economic interests of the profession by the nature of its charter. It would seem that if the new body also controlled the scale of charges, it would also be fully qualified to speak for the economic interests of the profession as a whole. This activity is, of course, liable to be interpreted as political, since to agitate for increased building (as a means of increasing professional prospects) or to resist building cuts, could, in these days of government control, easily lead to the charge of political bias. However, this aspect of the problem should be considered at the onset, and if the demands could be supported by both employer as well as employee architects, as would happen since the "union" represents both, then the risk is lessened.

There are other points which could be made, most of which have, however, been clearly stated in the RIBA summary, but to this list we must now add, in view of the proposals of the IAAS, the possibility of internal strife for the leadership of the new body. It seems that the most important factor in the long run lies in the structure and aims of the new body. If the "union" can be formed, can have the support of the majority of architects and achieve recognition, then its future will be governed by its aims, objects, and rules.

If the architectural profession could formulate a constitution entirely in keeping with the demands of a profession, then it would be doing a great service not only to itself, but also to all professional people.

PROPOSED SCHEMES FOR



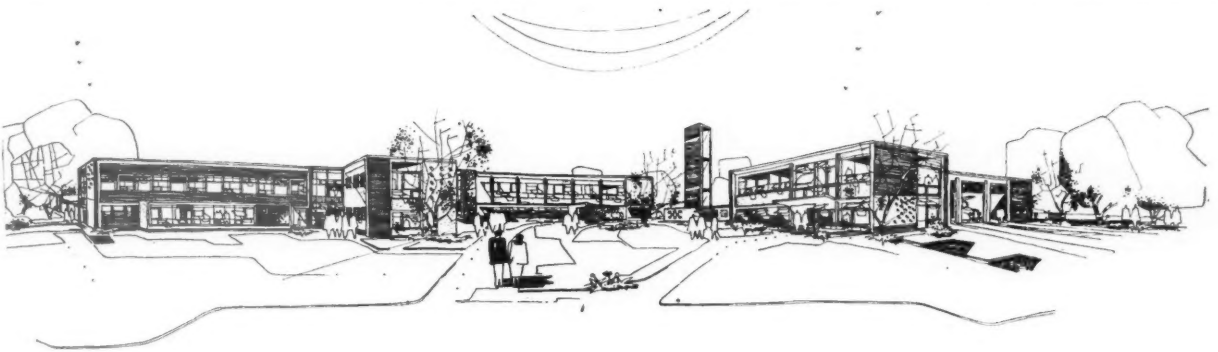
Site plan, Police Headquarters, Slough

The schemes illustrated by plans and perspective sketches on this page and the following two pages have been prepared in the office of the recently appointed County Architect for Buckinghamshire, Frederick B. Pooley, who was formerly Deputy City Architect, Coventry. The work illustrated includes, on this page, the Police Headquarters, Slough; above, on opposite page, part of the Civic Centre, Bletchley (for both these

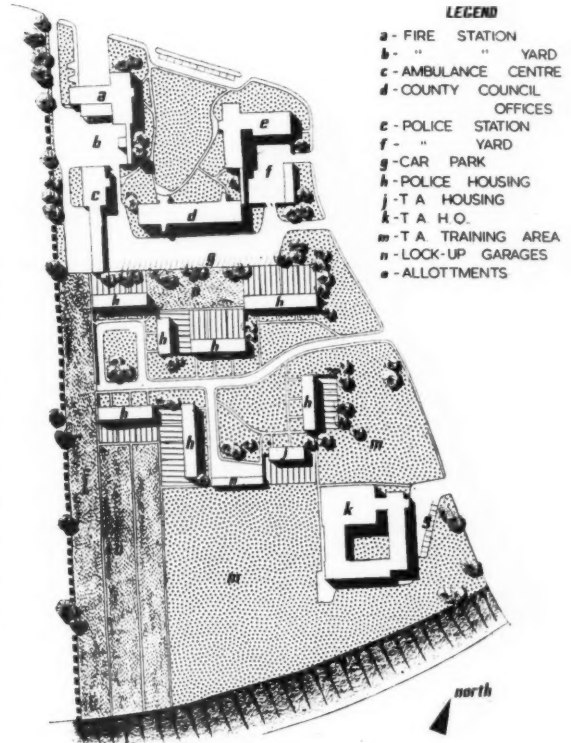


Ground floor plan, Police Headquarters, Slough [Scale: 1/4" = 1' 0"]

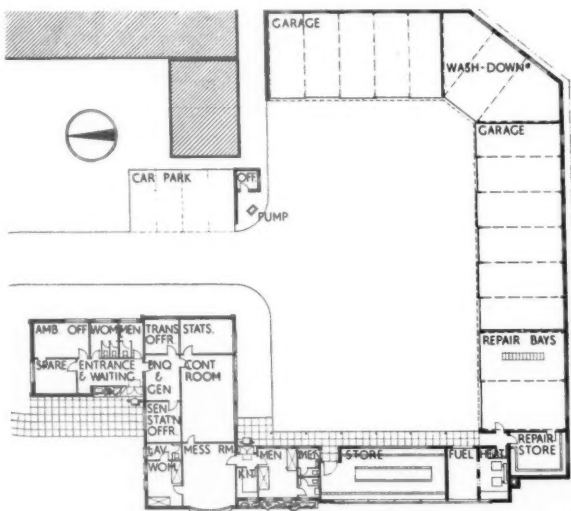
BUCKINGHAMSHIRE COUNTY COUNCIL



schemes the principal assistant architect is Cyril Hindle : assistant architects, K. E. Graham and D. Morrison); below, the Ambulance Station and Headquarters, Aylesbury (principal assistant architect, H. B. Thompson, assistant, C. M. Harding) and overleaf, the Langley Grammar School, Slough (principal assistant architect, Rex Peardon, assistant, Kenneth Bartlett). The new buildings for the Divisional Headquarters and Sub-Divisional Police Station in Windsor Road, Slough, will be begun for the Bucks Standing Joint Committee this year. The sketch shows the south-east elevation, which will face Windsor Road, below this is a location plan and bottom is the ground floor plan. The new buildings are to cost £63,000 and, on the advice of the County Architect, the Committee decided that the scheme would be a better financial proposition than the conversion of existing Victorian properties with an increased liability for maintenance and running costs. The final scheme will be prepared by W. David Hartley, a private architect in Slough, in collaboration with the County Architect. The scheme at Bletchley, known as the Eight Belles Development Scheme, will



Site plan, Bletchley Civic Centre



Ground floor plan, Ambulance station, Aylesbury [Scale: 1/4" = 1' 0"]

form part of the Civic Centre for the town, which is to be considerably expanded, and it is hoped that the buildings will be erected at the same time as the new housing development. The development will include, as shown on the site plan, County Council offices, Fire and Police Stations, a Territorial Army Training Headquarters and housing scheme. The sketch shows the scheme from the north. The site is adjacent to the railway station and is bounded on two sides by classified roads. Adjoining sites will be developed as educational centres. The proposed Ambulance Station and Headquarters



PROPOSED SCHEMES FOR BUCKS COUNTY COUNCIL—(continued)



at Aylesbury, a ground floor plan and sketch of which are shown on the preceding page, will form the headquarters of the County Ambulance Service and will house the station and garages. The station will operate 24 hours a day, with a full-time staff, and minor repairs and maintenance of vehicles will be carried out. The administrative building will be constructed of load-bearing cavity-brick walls with copper roofing; the garages will have light steel framing and aluminium roof decking. The Langley Grammar School at Slough, illustrated on this page by a perspective view from the north-east, above, and from the south-west, below, is designed for 540 pupils and work will begin next October. A reduction in normal circulation space has enabled the floor area to be reduced to 74 sq. ft. per place. There will be a prestressed concrete frame, with cladding of concrete slabs.

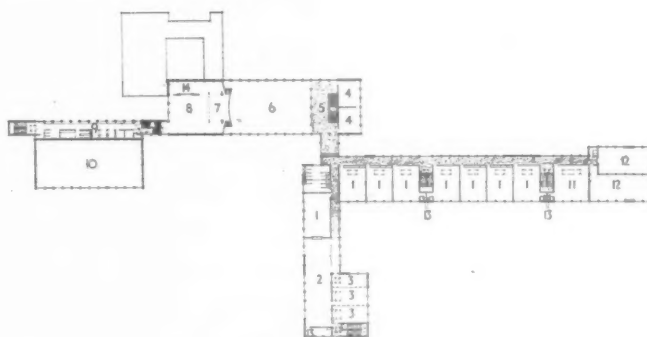
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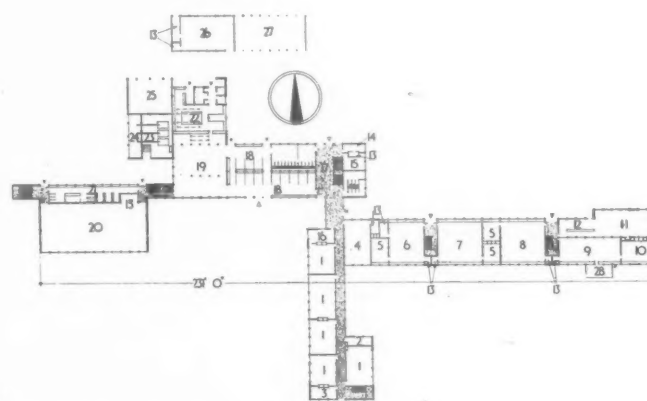
1. Classroom
2. Library
3. Division room
4. Staff room
5. Foyer
6. Assembly hall
7. Stage
8. Small hall
9. Changing room
10. Upper part of gym.
11. Needlework
12. Art room
13. Store
14. Chair store

GROUND FLOOR

1. Classroom
2. Senior mistress
3. Prefects
4. Geography
5. Preparation room
6. General science
7. Physics
8. Chemistry
9. Biology
10. Demonstration room
11. Housecraft
12. Flat
13. Store
14. Secretary
15. Headmistress
16. Medical

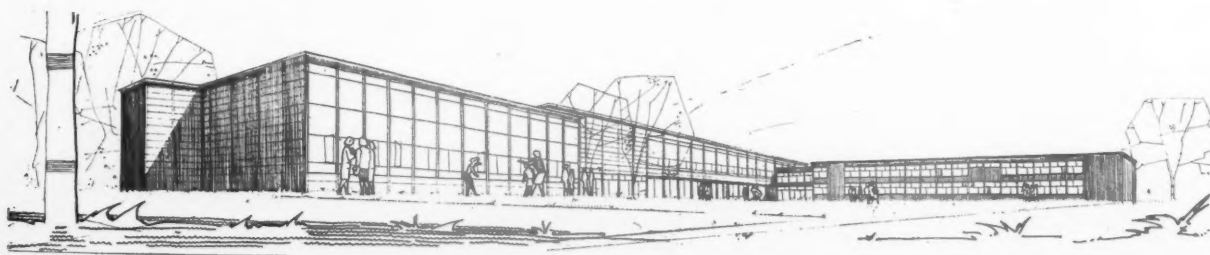


First floor plan [Scale: 1/8" 1' = 0"]



Ground floor plan, Grammar School, Slough

- | | | |
|-------------------|-------------------|------------------------|
| 17. Entrance hall | 21. Changing room | 25. Machinery store |
| 18. Cloaks | 22. Kitchen | 26. Metal and woodwork |
| 19. Dining room | 23. Boiler room | 27. Bicycles |
| 20. Gymnasium | 24. Fuel | 28. Greenhouse |





COMPETITION

Winning Designs for Kirkcaldy Crematorium

Ronald Bradbury, the assessor of the competition for a crematorium, promoted by the Royal Burgh of Kirkcaldy, Fife, has written a 2,500-word report on the entries received (237) and has made the following awards:—

First prize (£300): Sanger and Rothwell, chartered architects, Oldham. Second prize (£200): W. F. Howard, F.R.I.B.A., London. Third prize (£100): John A. Wells-Thorpe, A.R.I.B.A., of Lawrence Gotch and Partners, Percy, Wolverhampton; John Peters, A.R.I.B.A., and Walter Scott, A.R.I.B.A., Kirkcaldy; Mrs. Heather Shipman, A.R.I.B.A., and S. G. E. Shipman, A.R.I.B.A., Cambus, By Alloa.

RIBA

The President's Torquay Address

The following remarks were made by Howard Robertson, the RIBA president, when he

addressed the first meeting of the British Architects' Conference, at Torquay, last week.

"Our Council has had before it this year many vital questions. The latest to be publicised, and perhaps the most controversial, is the question of trades union representation for architects. This has had, and continues to be given, the most earnest consideration. But let us not be unduly swayed by advice—sometimes pontifical, sometimes friendly, and sometimes menacing—from external sources, as to what action we should take. Some of this advice is ill-founded, and some contradictory and therefore cancels out.

"What we have always to keep before us is that the well-being of architects, and architecture, lies mainly in our skill and competence in performance. It is in public appreciation based on good performance that our real future lies. Success in achieving the best possible working conditions and status is to be sought. But not at the expense of a whole-hearted and increasing attempt to improve both our architectural education and our performance in practice, so as to be fully worthy of our clients' confidence.

"In other words, the eventual status of a profession depends upon the respect in which its members individually and collectively are held. There is no other road. And whatever political or social action the Institute decides to take, we must, I feel, avoid at all costs any damage to the status of architects as men and women following an exacting calling in which none but the highest possible standards are acceptable."

AA

A Triple Event

A triple event at the AA last week, writes a correspondent, was (1) a presentation to Hope Bagenal on his retirement after thirty-three years as lecturer in the school; (2) a paper, *Some African Studies*, by Mr. Bagenal and (3) the announcement of the council for the next session.

The presentation made by retiring President, Sir Hugh Casson, was a drawing of an antique fragment by H. Chalton Bradshaw, chosen by Mr. Bagenal and framed under his instructions.

The paper, which many old friends thought was Mr. Bagenal's best ever, illustrated the author's acute observation on a wide variety

of subjects, exquisitely mixed with his own deductions and composed in the best English currently spoken from the architectural rostrum.

The Council for next session includes three new members, two of whom have served before—Michael Austin Smith (probably the only architect whose battery has ever made a practice of firing royal salutes from the Tower of London) and Max (Town Planning) Lock. The only real newcomer is Howard Lobb, intrepid helmsman on land and water.

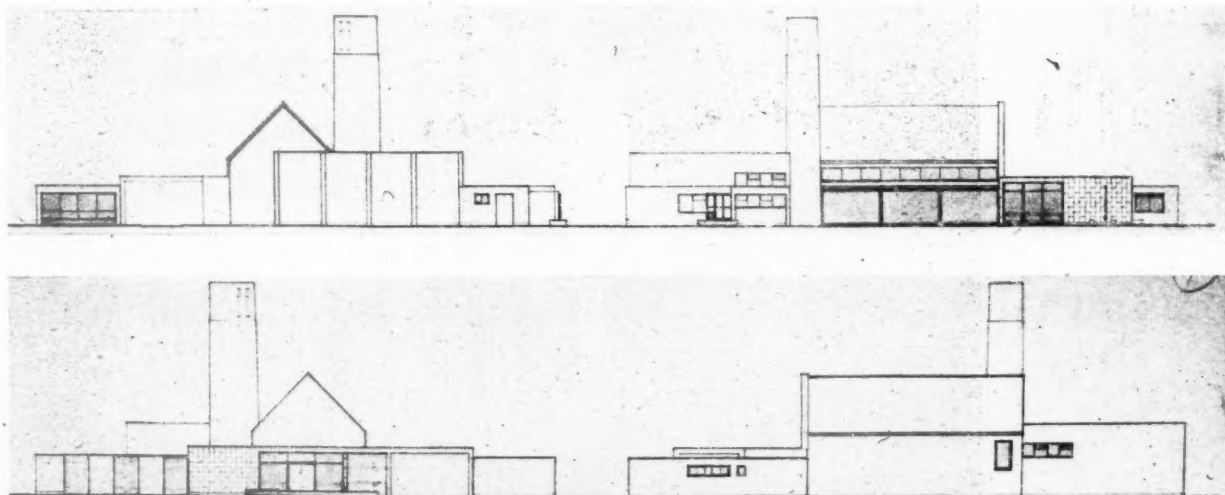
NEW BILL

Repairs and Rents

The JOURNAL's Guest Editor (Conversions) writes:—

By hastening the passage of the Housing Repairs and Rents Bill through the Commons, with the assistance of the guillotine procedure, there may have been more advantages to the politicians than to those who must later apply this new legislation. The committee stage of this complicated Bill, now before the House of Lords, was concluded on May 25 last; although the numerous amendments moved in committee were invariably withdrawn later, discussion of the more intricate clauses raised doubt as to whether the Bill had been sufficiently debated in its early stages. Rising building costs, it was claimed, had by now outdated the Girdwood Committee's Report and there were misgivings whether permissible rent increases based on twice the statutory deductions would be adequate. Dwellings with the lowest gross rateable values would benefit least and in this category the demand for amenity improvement was the greatest.

An amendment moved by the Lord Chancellor provided, on summary conviction, a fine not exceeding £30 where any person claiming a repairs increase makes a statement in his declaration "which he knows to be false in a material particular or recklessly makes a statement which is false in a material particular." This amendment was agreed to. Where amendments were withdrawn, the Lord Chancellor undertook to reconsider some of these in the Report stage. This Bill in its final form can affect a very large section of the population and it now rests with the Lords to enhance its value by simplification and easier application.



Elevations of the first winning design in the Kirkcaldy crematorium competition. (See note above.) The elevations are: top left, east; top right, north; above left, west; above right, south.

HOUSING SCHEME

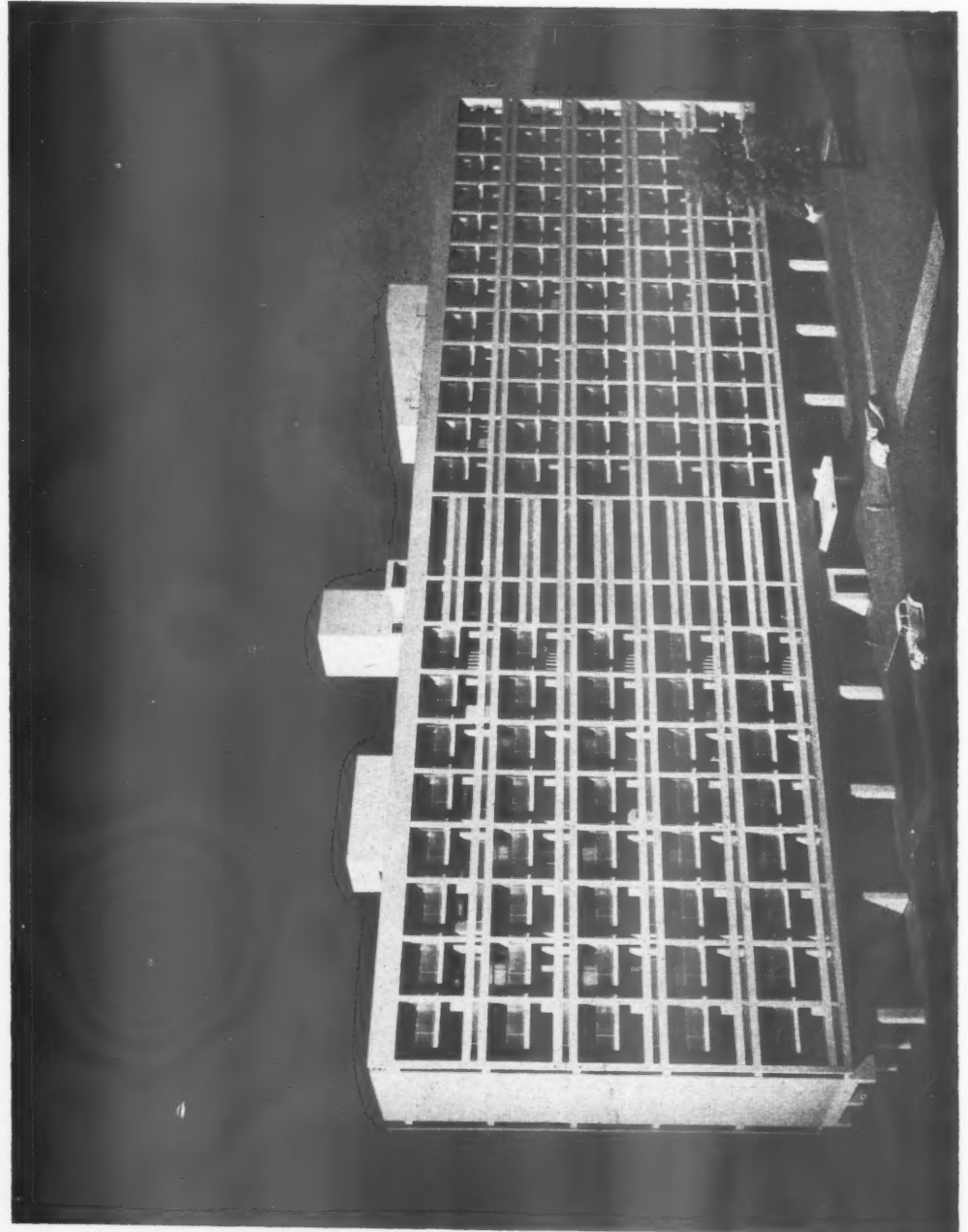
in BENTHAM ROAD, HACKNEY, LONDON, E.9

designed by the Housing Division of the Architects' Department, London County Council

DR. J. L. MARTIN, architect to the Council; WHITFIELD LEWIS, principal housing architect; MICHAEL POWELL, assistant housing architect;

C. G. WEALD, architect-in-charge; C. A. ST. J. WILSON, P. J. CARTER, A. H. COLQUHOUN, J. F. METCALFE,

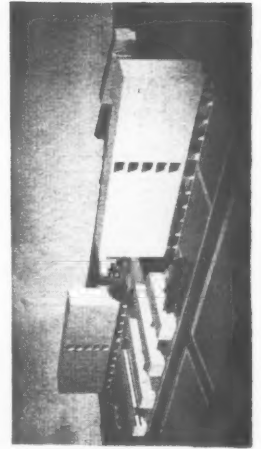
A. H. R. WEITZEL and I. YOUNG, assistant architects; F. J. SAMUELY, consulting engineer.



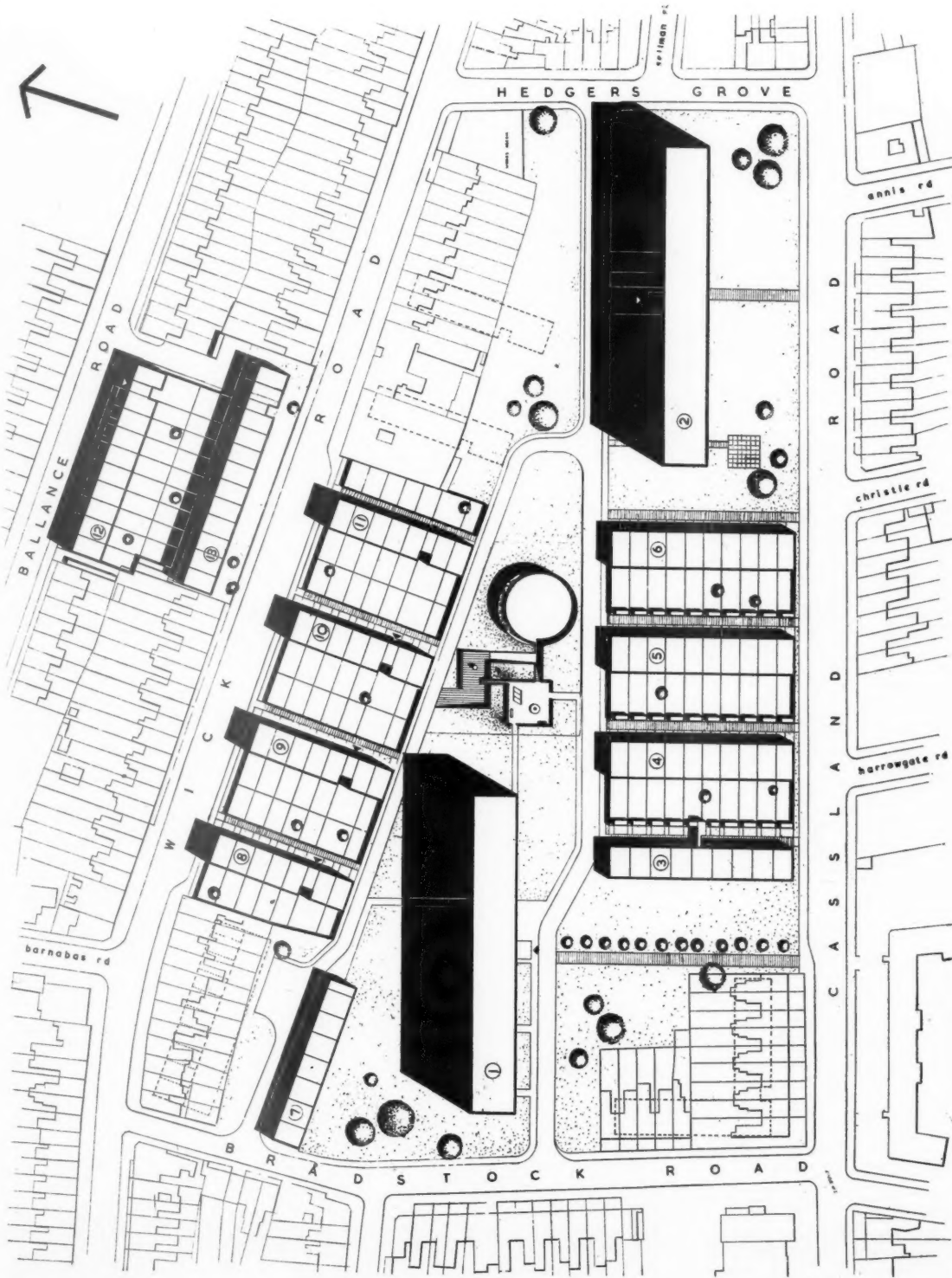
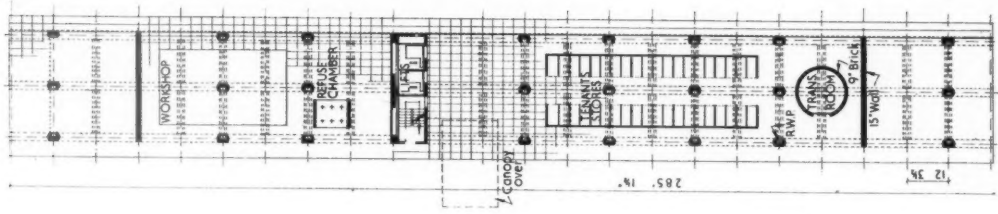
GENERAL.—The Bentham Road site in Hackney, which will contain a total of 379 dwellings, covers an area of about 10 acres and work will commence towards the end of this year. The two tall blocks (1 and 2 on the site plan) will each contain 105 maisonettes of a new type with a frontage of only 12-ft. 3-in. A full-size prototype "mock-up" of a typical maisonette was constructed late in 1952 and was approved by the Council. Photographs of this "mock-up" appear on pages 680 and 681.

PLAN.—Most of the maisonettes have two-bedroom types; there is a small number of one-bedroom and three-bedroom types on the first and second floors.

Left, the model of one of the 11-storey maisonette blocks, showing the access and fire-escape balconies on the north side. Below, model of the whole site, seen from the south-east.



Ground floor plan,
11-storey block
[Scale: 1/4" = 1' 0"]



KEY
Blocks 4-6, two-storey, four-bed-room houses.
Block 7, three-storey, two-room flats.
Blocks 8 to 13, four-storey maisonnettes.

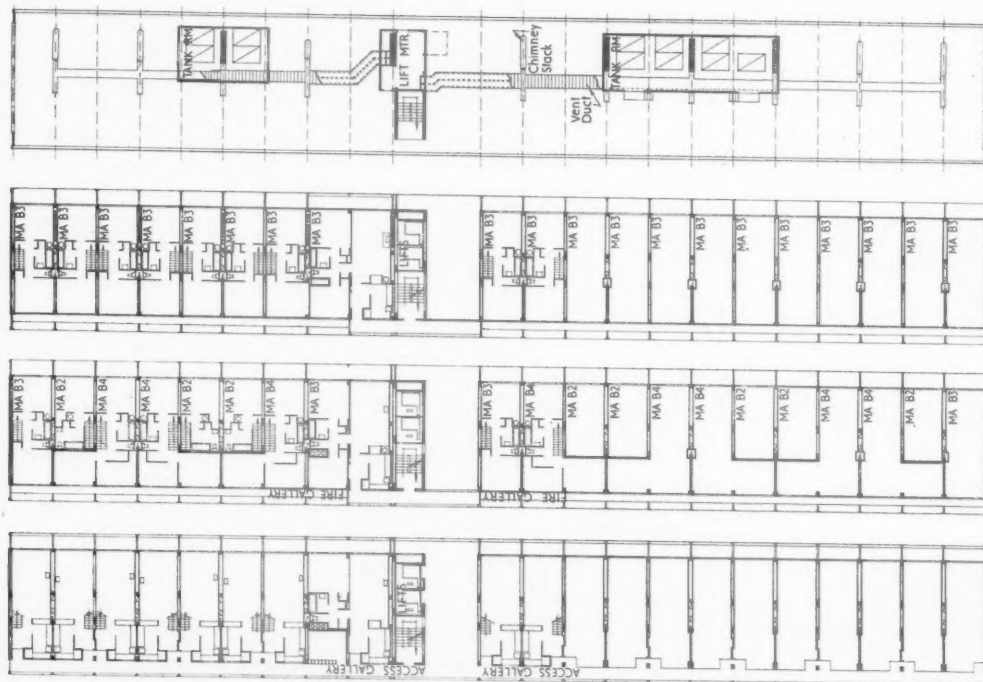
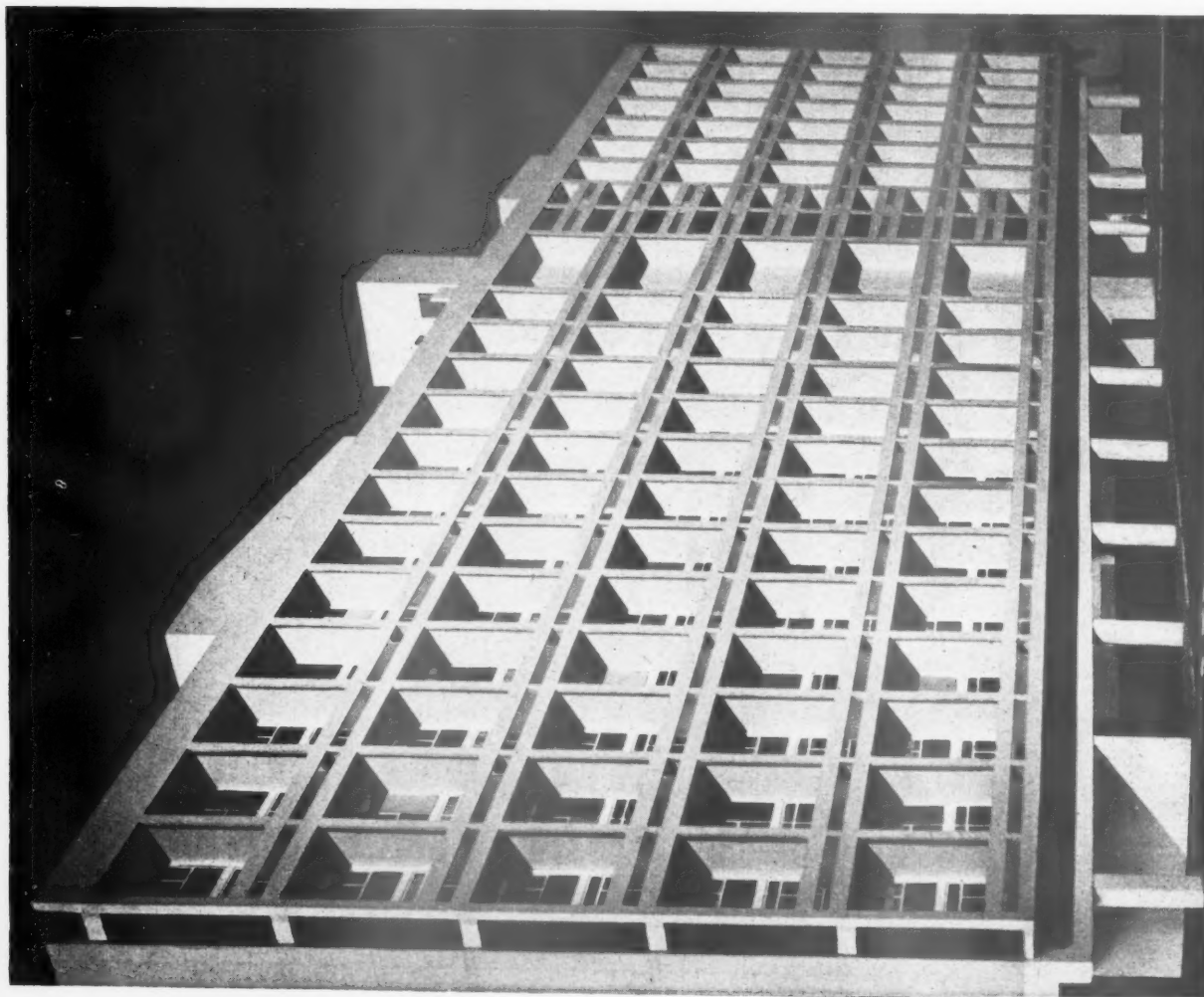
Blocks 1 and 2, 11-storey maisonnettes.
Block 3, two-storey, one-room flats.

Site plan

HOUSING SCHEME

11 BENTHAM ROAD, LONDON, E.9
designed by the Housing Division,
Architects' Department, LCC

Left, the south
facade of the model
of a maisonette block
showing private bal-
conies.



Roof plan
[Scale: 1/4" = 1'-0"]

Plan, floors 4, 6,
8, and 10
Upper floors

Plan, floors 1, 3, 5,
7 and 9 Mais-
onette lower floors
Upper floors

Upper floors

onette lower floors & upper floors

WORKING DETAIL

ROOFS AND CEILINGS: 16

ROOFLIGHT IN WORKSHOP: SCHOOL AT CRANFORD

Denis Clarke Hall, architect, in association with C. G. Stillman, architect to the Middlesex County Council



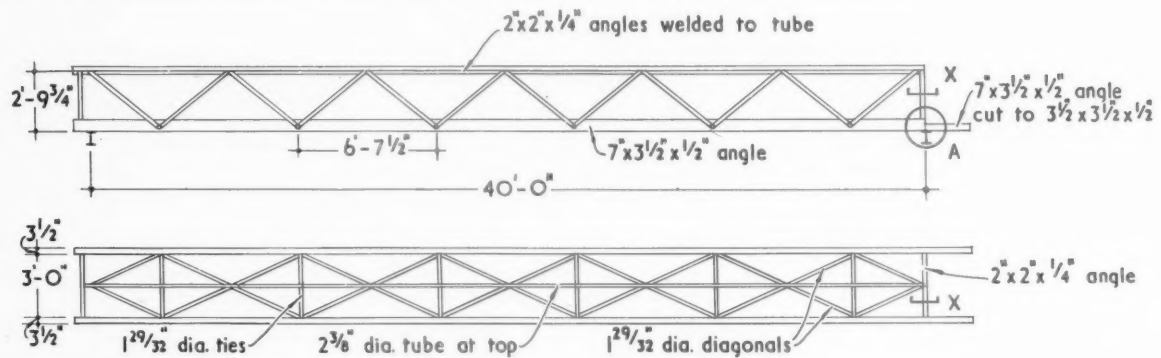
The tubular space frame spans 40 ft. and supports both the rooflight and the adjoining decking. Steel angle purlins are welded on either side of the apex of the frame to hold the standard patent glazing.

WORKING DETAIL

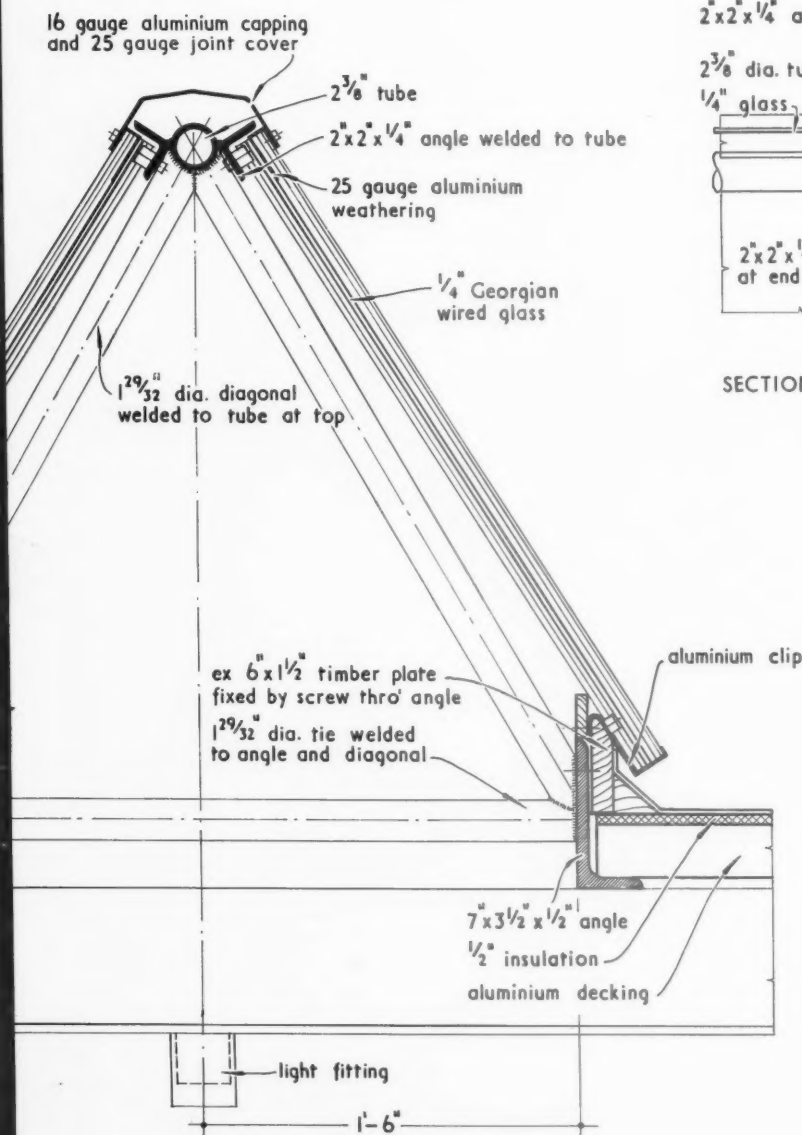
ROOFS AND CEILINGS: 16

ROOFLIGHT IN WORKSHOP: SCHOOL AT CRANFORD

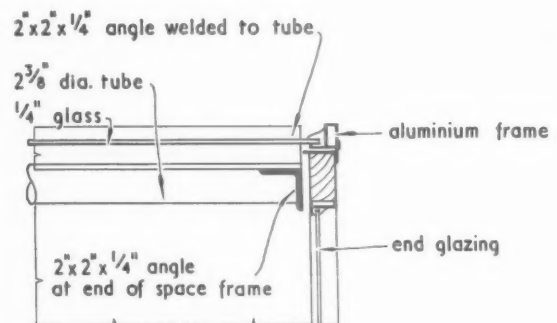
Denis Clarke Hall, architect, in association with C. G. Stillman, architect to the Middlesex County Council



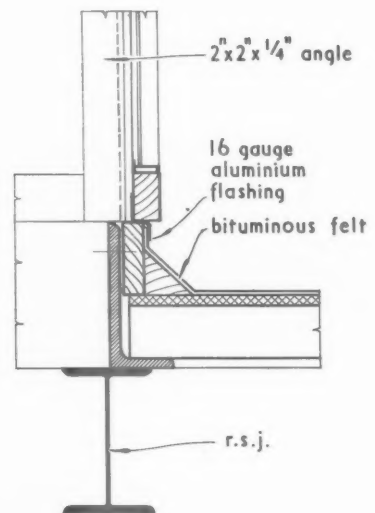
KEY ELEVATION AND PLAN. scale 1/8" = 1'-0"



SECTION THRO' SPACE FRAME. scale 1 1/2" = 1'-0"



SECTION AT X.



DETAIL AT A.

WORKING DETAIL

WINDOWS: 25

BAY WINDOWS: HOUSE IN LONDON, N.W.3

Architects' Co-Partnership, architects



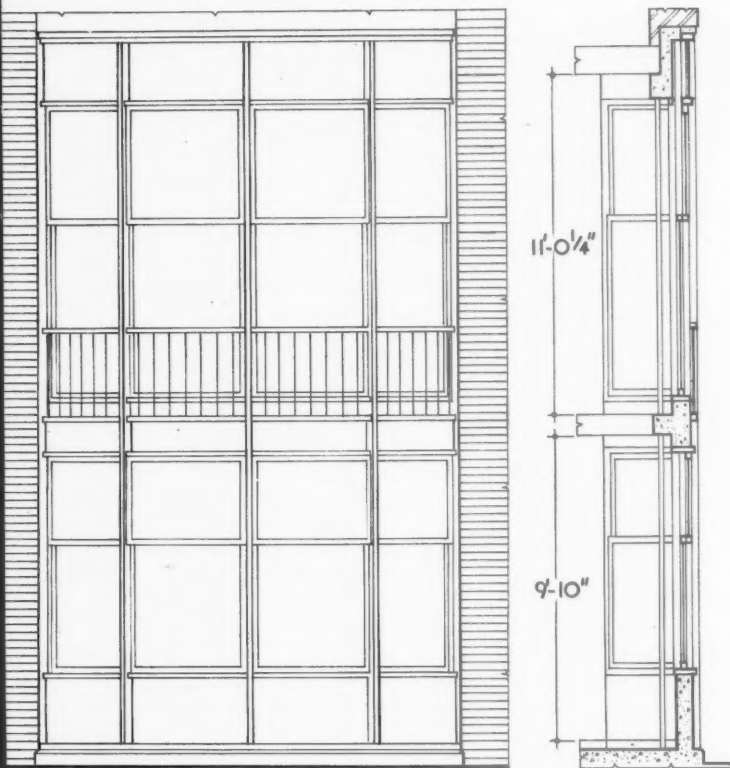
New windows have been fitted in the ground and first floors of a three-storey Victorian bay. R.c. in-situ beams, cranked to the shape of the bay, have been inserted at first and second floor levels, and are supported at the outside angles of the bay by 3-in. diameter mild steel tubes. The sash windows are hung in spring balances.

WORKING DETAIL

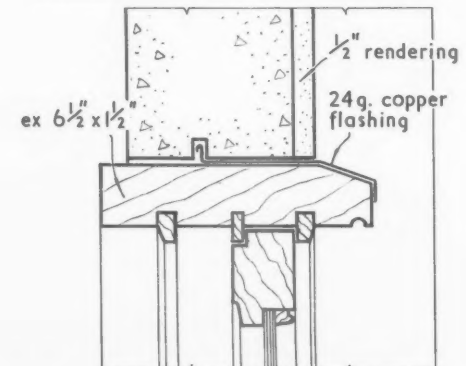
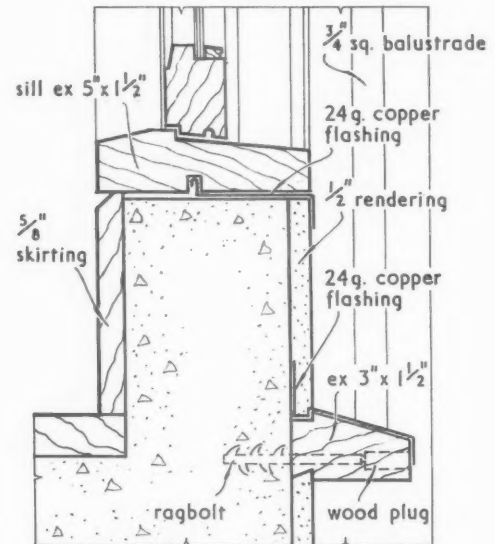
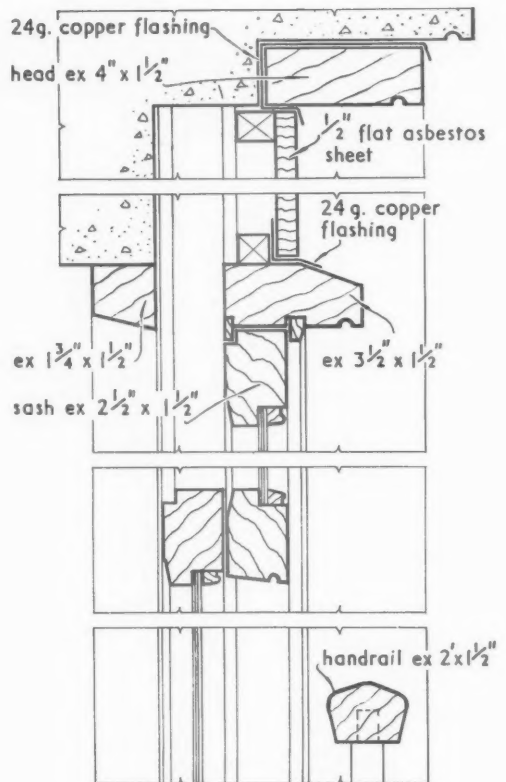
BAY WINDOWS: HOUSE IN LONDON, N.W.3

Architects' Co-Partnership, architects

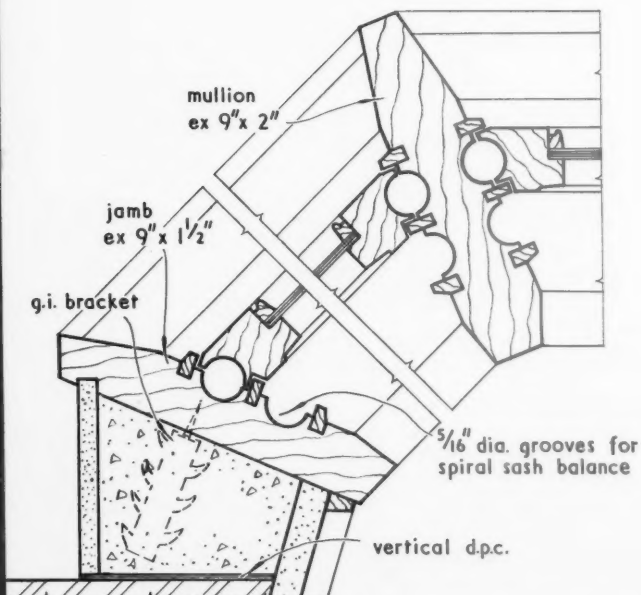
WINDOWS: 25



KEY ELEVATION, PLAN AND SECTION. scale 3/16"=1'-0"



VERTICAL SECTION THRO' WINDOWS.

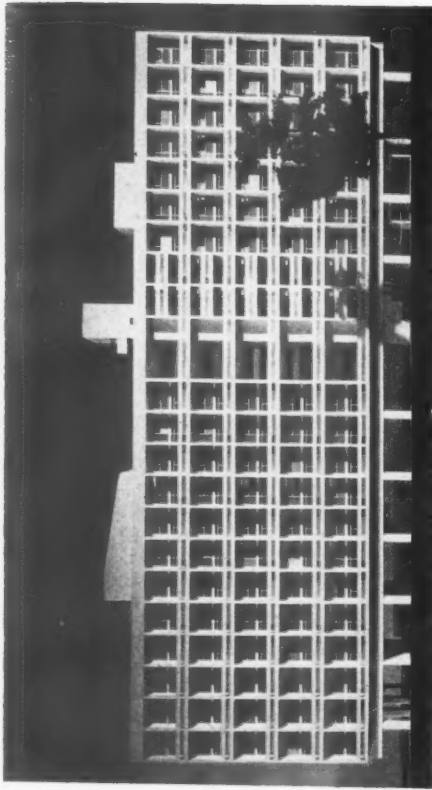


TYPICAL PLAN OF WINDOW. scale 1/4 full size

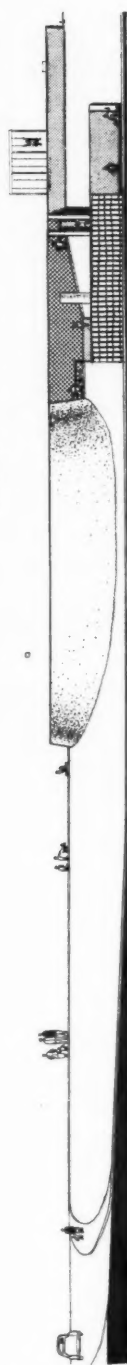
Beside the two lifts and staircase which provide the vertical circulation, there are one and two-bedroom flats. Plans for these are illustrated on page 681. A secondary means of escape is provided by a narrow gallery at the upper floor level of maisonnettes, on the same side as the access galleries. Bathrooms and w.c.'s, which are centrally placed, are artificially lit and ventilated by a mechanical extract system. Other accommodation planned on the site includes thirty two-storey houses (blocks 4-6 on site plan), one block of twenty-one two-room flats and six four-storey blocks of four-room maisonnettes. More than half of these houses and maisonnettes have private gardens.

HOUSING

in BENTHAM ROAD, LONDON, E.9
designed by the Housing Division,
Architects' Department, LCC

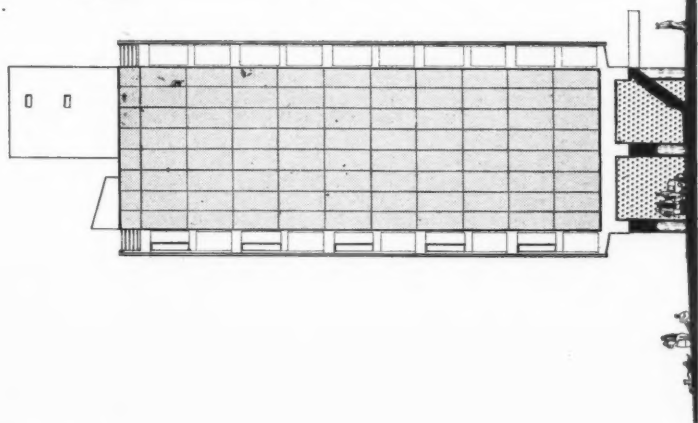


Above, south elevation of the model. The ground floor is open except for tenants' stores, workshop and load-bearing members.



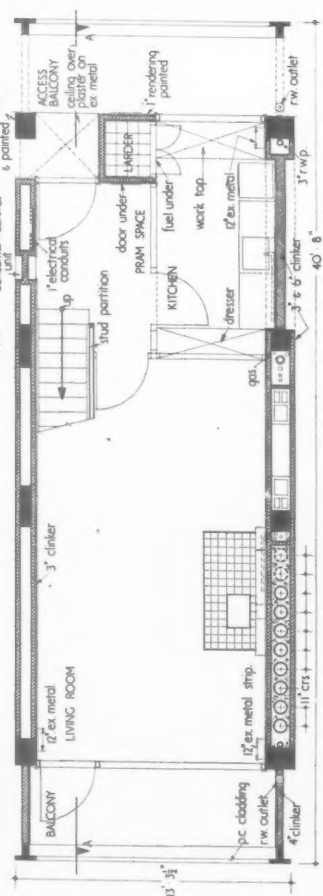
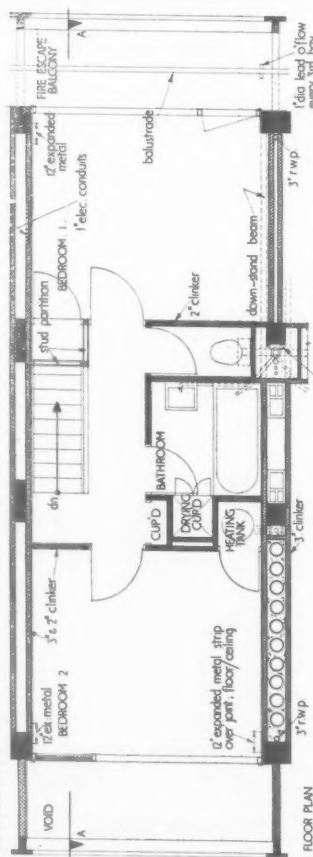
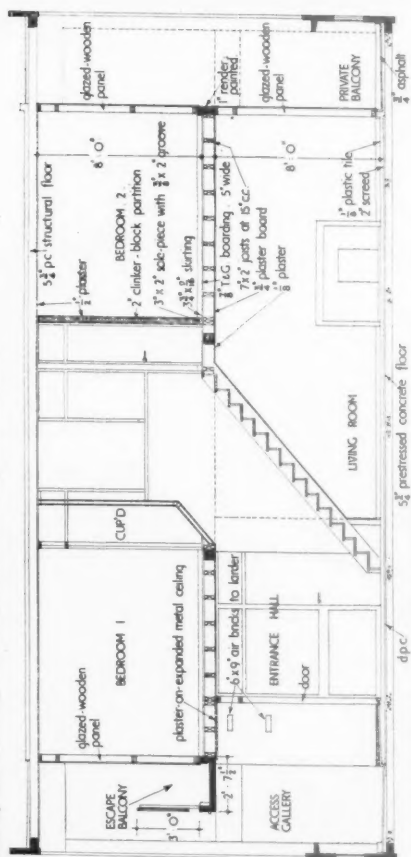
Above, the north elevation of the children's play space between the two 11-storey blocks. The square upper level for small children is linked with the lower area, which contains a pylon, by a slide. The circular area is a general play-space within a high wall. There is a difference in level due to site fall of 11 ft.

Below, the west elevation of block 1, which is faced with precast concrete cladding, and block 3, which consists of two-storey flats. [Scale: 1/8" = 1' 0"]

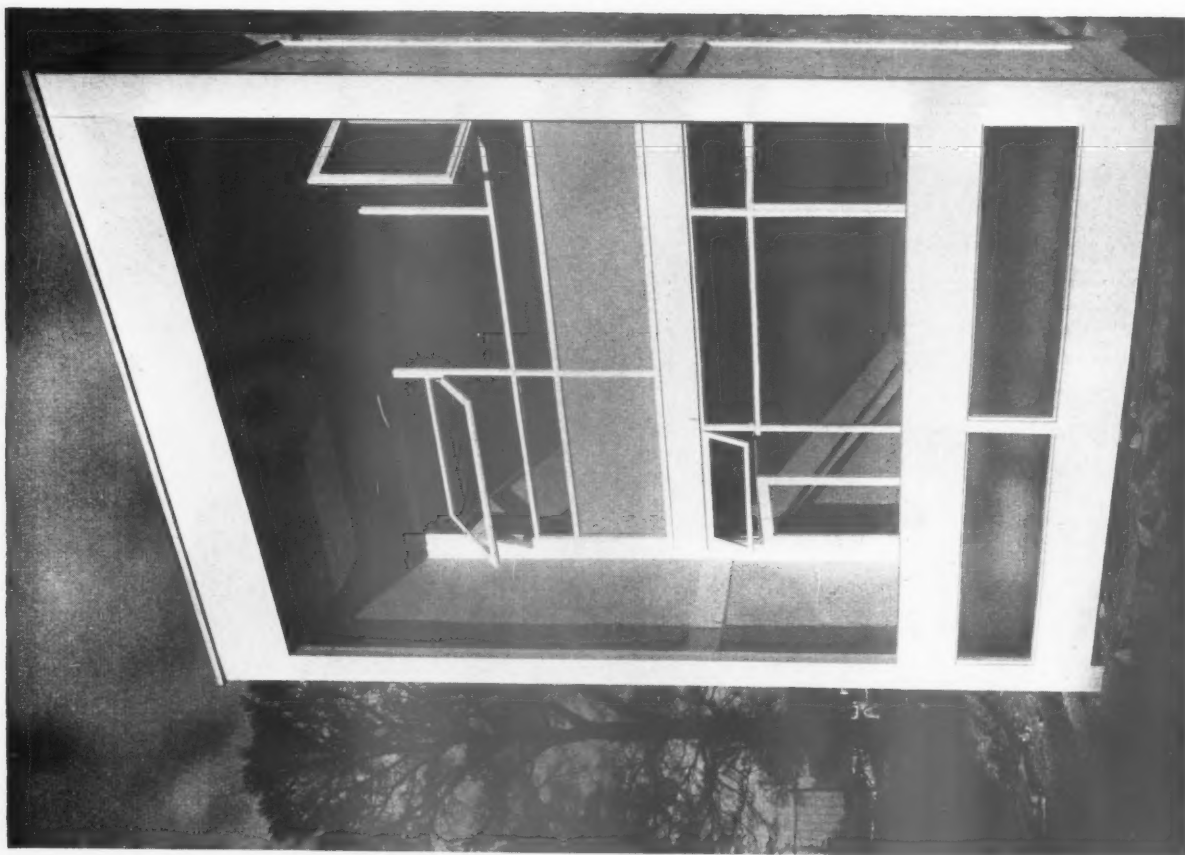


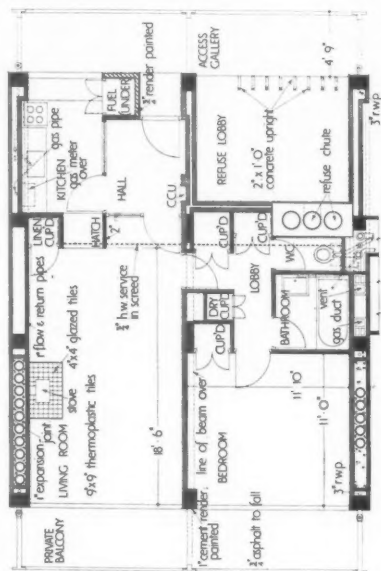
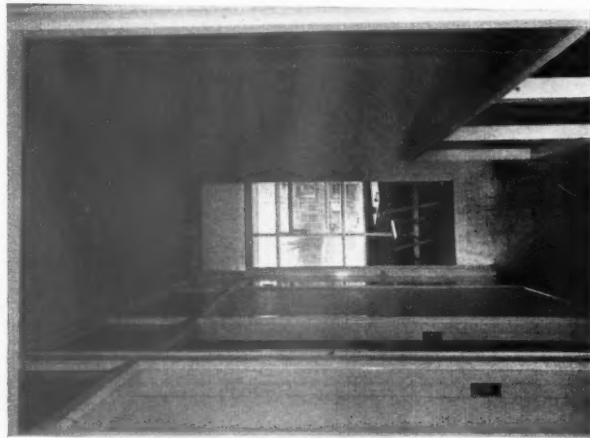
HOUSING SCHEME

in BENTHAM ROAD, LONDON, E.9
designed by the Housing Division, Architects' Department, LCC



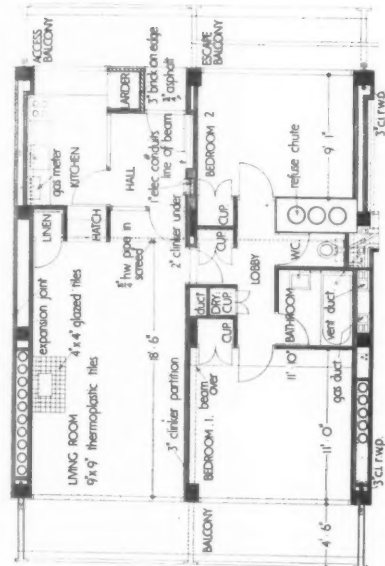
Upper and lower floor plans, maquette types MA.B3, MA. B2 and B4. [On upper floors MA.B2 has only 1 bedroom, the other forming part of M.A.B.A.]



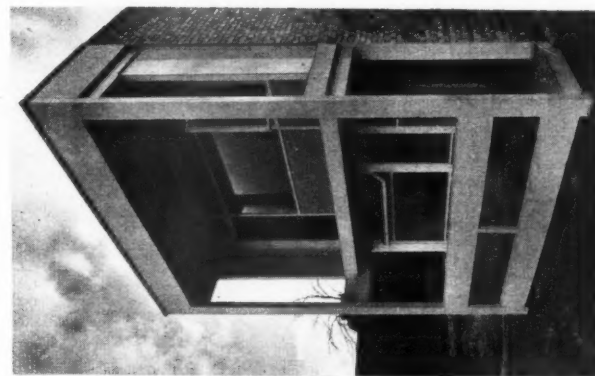


Flat plan, Type BA.B2. [Scale: $\frac{1}{8}$ " = 1' 0"]

Three views of the maisonette "mock-up." Left, upper-level corridor looking into one of the bedrooms. Below, kitchen looking into living room on lower level. Below right, access gallery at lower level and fire escape gallery above.



Flat plan, Type BA.B3.



CONSTRUCTION.—The construction of the tall blocks will be of in situ concrete raft foundations, ground floors of in situ fair faced concrete columns, bracing walls and skirt beams. Above the ground floor there will be precast concrete frames, and floor units and wood joist floors between upper and lower floors of maisonettes. External walls to maisonettes are of prefabricated fire-resisting wood frame panels. The two-storey houses and four-storey maisonette blocks will be of load-bearing cross wall construction.

SERVICES.—Solid fuel heating with back boilers will be employed throughout. All dwellings without private gardens have a drying cabinet. Soil and waste water layouts to the low blocks are of the single pipe system.

PRIMARY SCHOOL

in PENNCRICKETT LANE, OLDBURY, WORCESTERSHIRE

for the Worcestershire County Council, designed by F. R. S. YORKE, E. ROSENBERG and C. S. MARDALL
associate-in-charge, T. R. EVANS; assistant-in-charge, J. G. FRYMAN, in association with F. W. B. YORKE and
H. M. BARKER; consulting engineers, (structural) CLARK, NICHOLLS and MARCEL
(heating) OSCAR FABER and PARTNERS; quantity surveyor, OSWALD A. WAINWRIGHT

The infants' department, which formed the first phase of this County primary school, was illustrated in the JOURNAL for May 21, 1953. Phase two, the junior department, is linked to the infants' accommodation by the kitchen and dining block, seen on the right in the photograph below. The junior school, which has a two-storey teaching wing, is designed for 320 pupils and has an area of 56 sq. ft. per place.

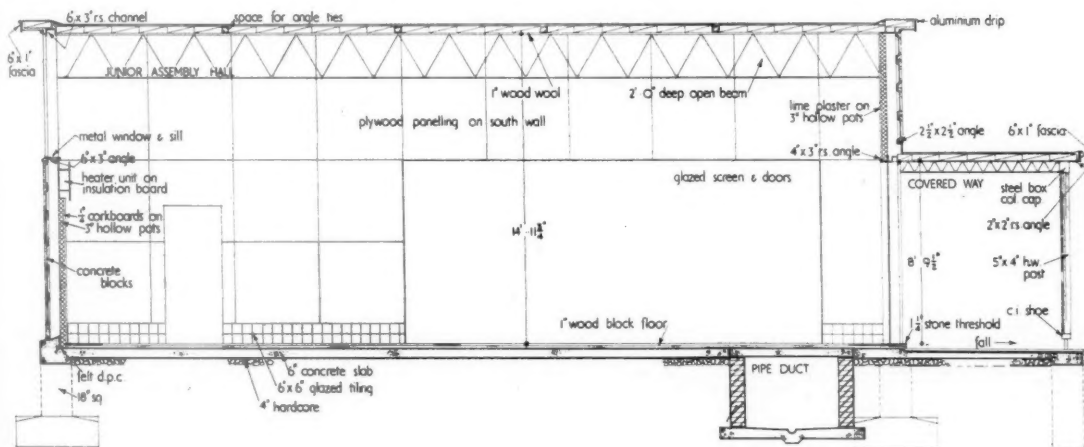
Junior classroom wing from the west.



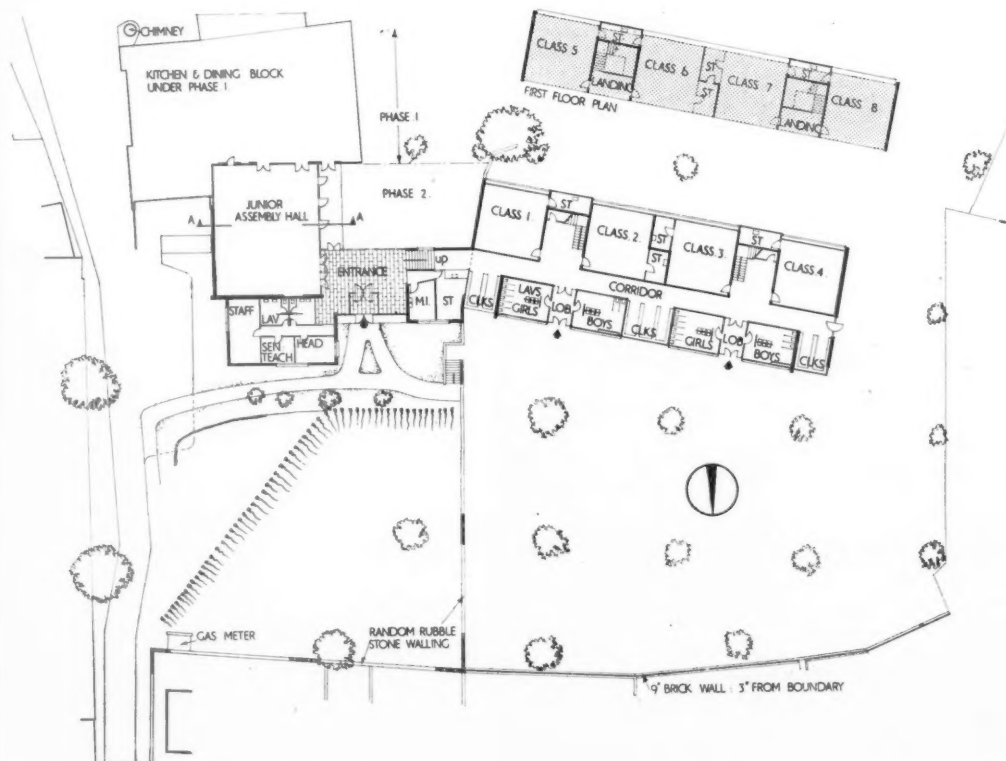
Right, the assembly hall, looking from the entrance hall.

PLAN.—There are eight junior classrooms, each of 610 sq. ft., each with a workroom-store adjoining, an assembly hall of 2,000 sq. ft. and accommodation for a staff of 10.

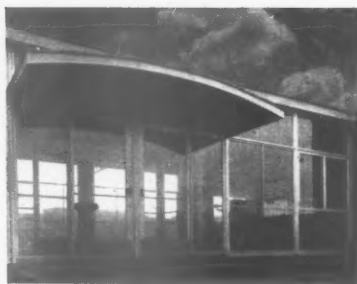
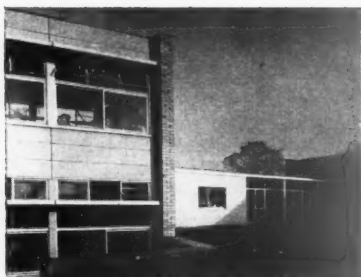
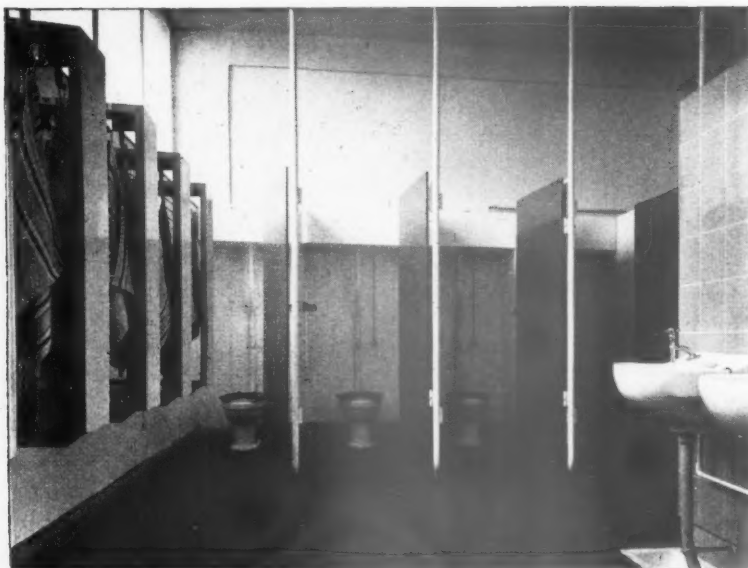
CONSTRUCTION.—The site is a difficult one, containing two disused mine shafts and a marl pit and is covered in parts to a depth of 7-ft. by spoil and waste from an old brick yard. The two-storey junior classroom wing is built on the only part of the site suitable to take its load. The foundations used include ordinary reinforced concrete footings and slabs.



Section A-A [Scale: $\frac{1}{2}$ " = 1' 0"]



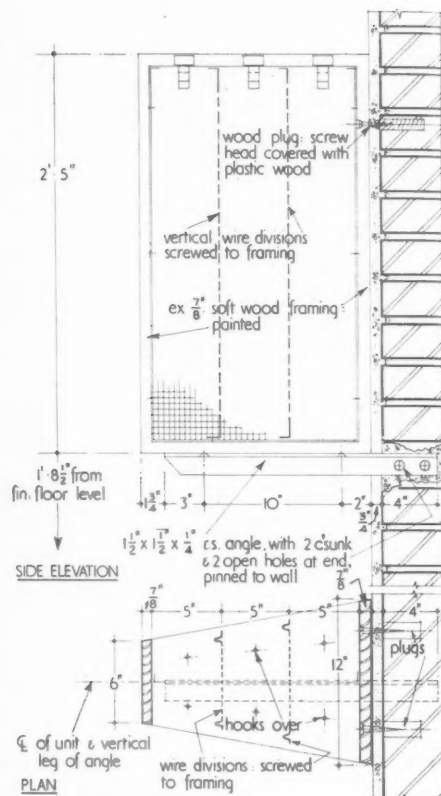
Ground and first floor plans Scale: $\frac{1}{4}$ " = 1' 0"]



PRIMARY SCHOOL

at OLDBURY, WORCS,
designed by F. R. S. YORKE,
E. ROSENBERG and C. S. MARDALL,
in association with F. W. B. YORKE
and H. M. BARKER

Top, girls' lavatory. The wc's are served by a continuous-trough cistern. Above, left, corner of junior classroom wing. The walling was illustrated as a Working Detail in the JOURNAL for February 11, 1954. Above, main entrance doors. The canopy was illustrated as a Working Detail in the JOURNAL for February 25, 1954. Below, the junior entrance hall.



Details of specially designed towel rack (see photograph above left) [Scale: 1" = 1' 0"]

The assembly hall has a light, steel frame on an 8-ft. 3-in. grid, with precast concrete roof slabs. The administration block has walls of load-bearing brickwork and a r.c. roof. The classroom wing has light steel columns and beams with precast concrete cladding, the first floor is of precast concrete units. Cloakroom and lavatories have a r.c. frame with brick infilling panels.

FINISHES.—The roof of the classroom block is of 2-in. compressed straw insulation board finished with bituminous roofing felt and granite chippings. Classroom stores project on the south side of the two-storey block and are timber-framed and faced with vertical hardwood boarding. The projections formed by the stores are linked by timber slatted sun breakers to combat glare on the south elevation. Internally finishes include tiles, hardwood and paint on exposed steelwork. Flat paint is used on walls, glossy paint in bright colours on doors, lockers, etc.

SERVICES.—Heating is by low pressure hot water radiators, except in the entrance hall and assembly hall. The entrance hall is heated by hot water floor panels and the assembly hall by a combination of radiators and radiant panels.

The general contractors were Edgar Crowder Ltd. For sub-contractors, see page 692.

TECHNICAL SECTION

The new RIBA Scale of Professional Charges, which has now been finally approved by the Council, was published in the RIBA Journal for April. Evidently members had a good deal to say about the draft published earlier, as the final version contains a number of amendments. On the face of it, however, the new scale is not really very different from the old one. The extremely vexed question of how to ensure a proper use of specialist consultants is still left without any really satisfactory answer and many architects will continue to avoid facing the issue with their clients. As a result, specialist contractors will continue to submit tenders in competition and suffer from comparison of prices for differing schemes. Many architects will also be disappointed at the scale of fees for minor works and will feel that the small house problem in particular is left unsolved.

The scale makes no attempt to value the services of assistants when charges are on a time basis, but it is interesting to note that for principals the fee is apparently flexible, subject to a minimum rate. For normal jobs on the percentage basis, however, the fee appears to be fixed and inflexible. Possibly even the most exalted architect can no longer find a client prepared to pay more than the minimum fee, but it seems unfortunate to exclude the possibility. Architecture might benefit quite considerably if a really first-class man decided to limit his output of work, charge high fees, and do a really serious and thoughtful job every time.

One useful point which seems to be cleared up is the architect's liability to pay for the cost of prints of drawings. Apart from two sets of contract documents and a set of drawings to show main lines of drainage and other essential services all prints are chargeable to the client. Some architects already follow this practice but many who have not done so will find the directive on this a considerable help.

This week's
special article

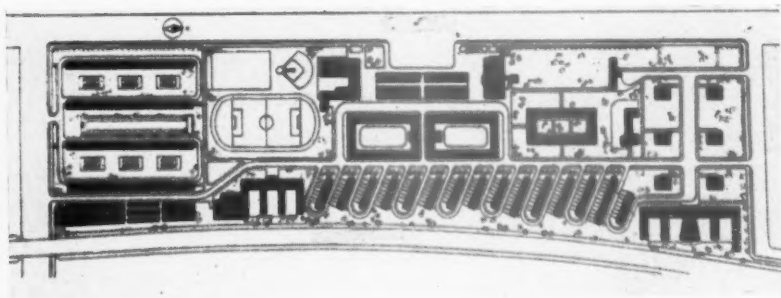
20 CONSTRUCTION: COMPLETE STRUCTURES dimensional co-ordination

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

The shift towards factory production in building, and the growing acceptance of dimensional standards which goes with it, is taking place in every industrialized country. This week we give an account of development in Belgium, which is characterized by the standardization of the services. The account is taken from an address given to the Modular Society by Professor Hugo van Kuyck. For brevity's sake the account is confined to aspects of his address which bear directly on the Belgian experiments, but, in order to give a consecutive picture, certain matters which Professor van Kuyck treated in the discussions that followed have been inserted in their logical order.

When in 1938 the problem of building was first analysed in Belgium, a calculation was made of the proportion of material to labour costs. Confining material strictly to raw material, i.e., clay, ore, etc., but excluding finished products, it was found that this factor

amounted to about 6 per cent. of the total of building cost. To this there had to be added a further 3 per cent. for the energy applied to these raw materials to prepare them for use, such as energy used in making bricks, in reducing the ores, and in transporting



*Top: Plan of the Luchtbal neighbourhood.
Above: View of one of the nine storey blocks.
Below: General view from the north.*

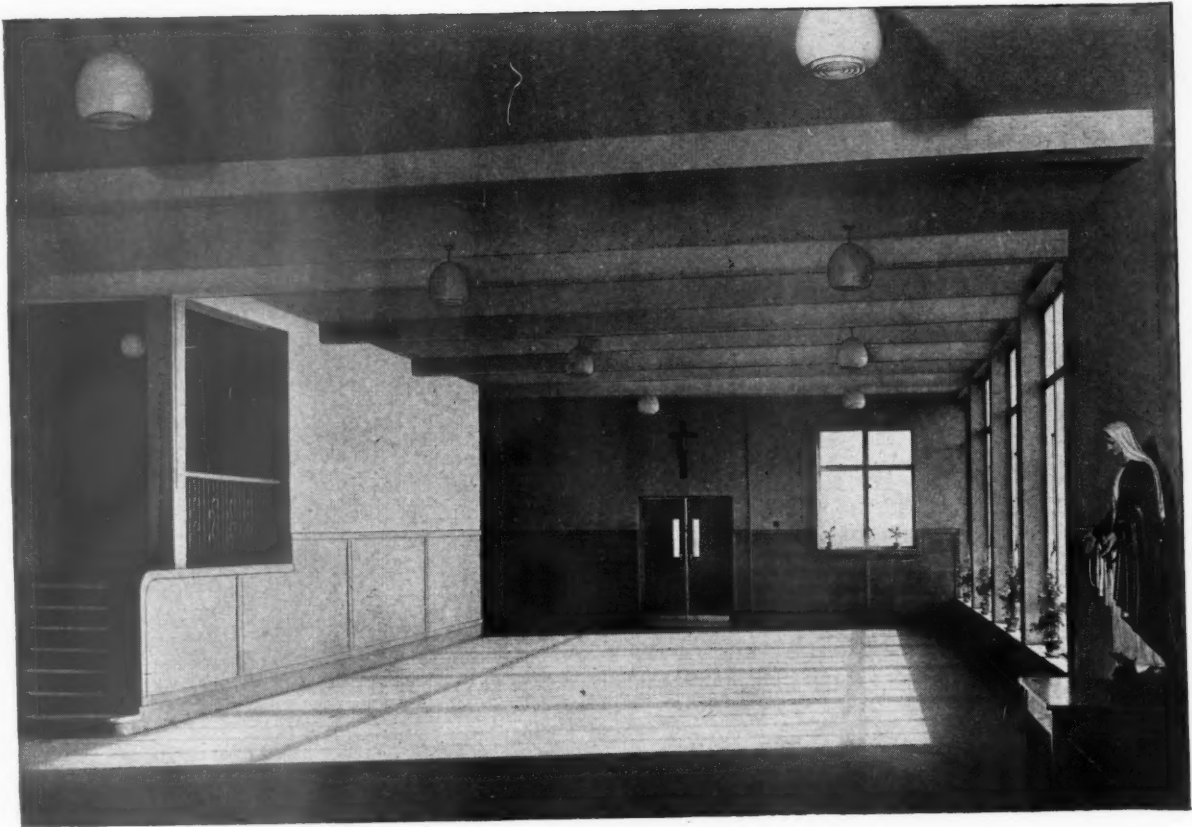


materials to site. The whole of the remaining 91 per cent., therefore, related to labour in the factories, in transport and on the site. This fact explained why the advent of new and cheaper materials had in itself made very little difference to overall costs, and it served to direct research to the question of division of labour as between factory and site.

Realizing that increased industrialization required the standardizing of dimensions, the Belgian Government had already passed a Bill prohibiting the standardization of any new item in the building trade by the Belgian Standards Institute unless it complied with a module of 10 centimetres. It should be emphasized that this selected module was not at all a final decision, but was only considered as tentative. The module was used in the form of what are called "preferential multiples." Taking the door as an example; doors are made 70, 80 and 90 cms. wide; 90 cms. is approximately 3 ft. 60 cms., which is about 2 ft., is too narrow, and one metre is too wide, so for purposes of standardization, door widths of 70, 80 and 90 cms. were considered acceptable. Likewise, two heights were proposed: 2 metres and 2.10 metres. As a consequence only six sizes of doors were normally to be manufactured, and of those six more than half the total would be of the preferential module—80 cms. wide and 2 metres high. This preferential module is essentially a "use module," but there is another type of module, a "construction module," which does not necessarily coincide. What was essential was that these two modules should have a basic module in common which would guarantee interchangeability. This was the function which the 10 cms. had to perform.

The subject for the first Belgian experiment in Modular Co-ordination was the completion of a residential development in the port of Antwerp begun before the War. This development goes by the name of Luchtbal, and is in the form of a neighbourhood unit containing about 1,800 dwellings, together with a large shopping centre, a church and two schools. A large proportion of the dwellings are apartments contained in four large blocks. Normally, apartments have one, two or three bedrooms, besides a living room, hall, kitchen and bathroom. A group of one-family houses with small gardens serves the larger families, and there are 120 small apartments for elderly people. There is a recreation centre, a cinema, a community laundry, small workshops for manual trades, and garage accommodation. The whole area, covering approximately 70 acres, has sports fields and playgrounds and is planted like a park.

The experimental work at Luchtbal



St. Mungo's J. S. School, Falkirk.
A. J. Smith, A.R.I.B.A., County Architect, Stirling.

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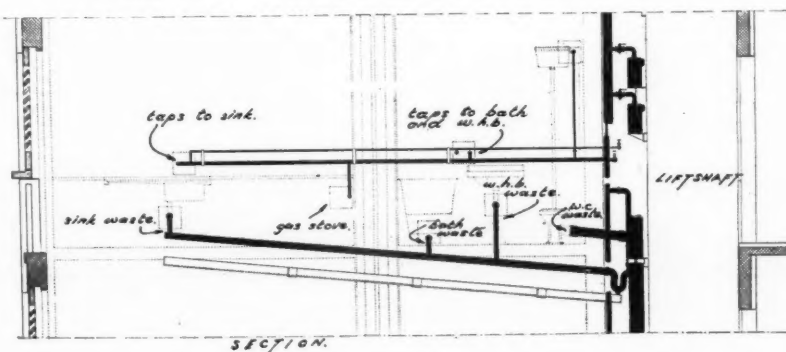
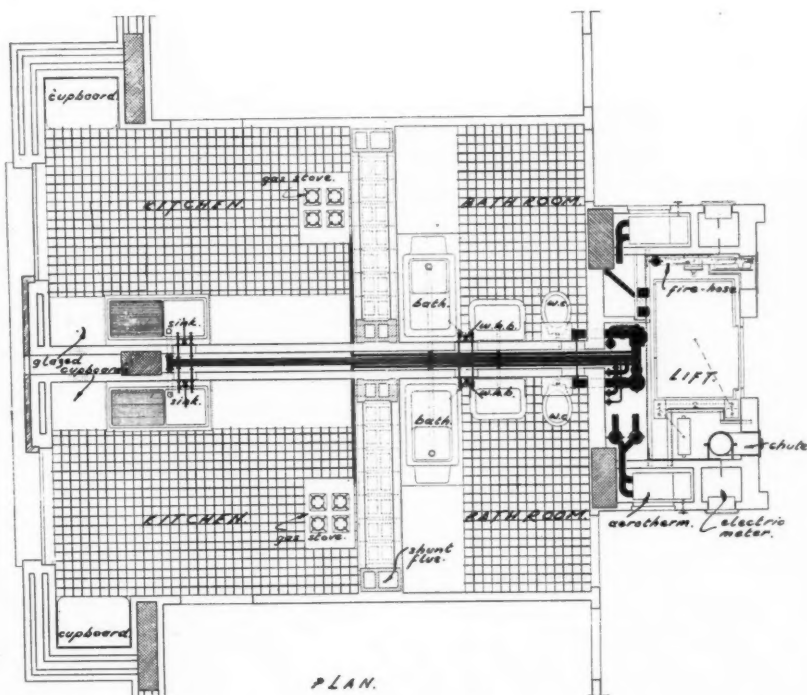
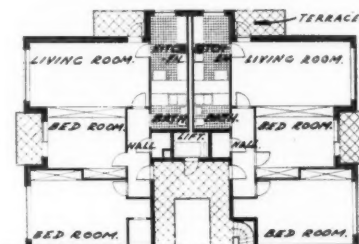
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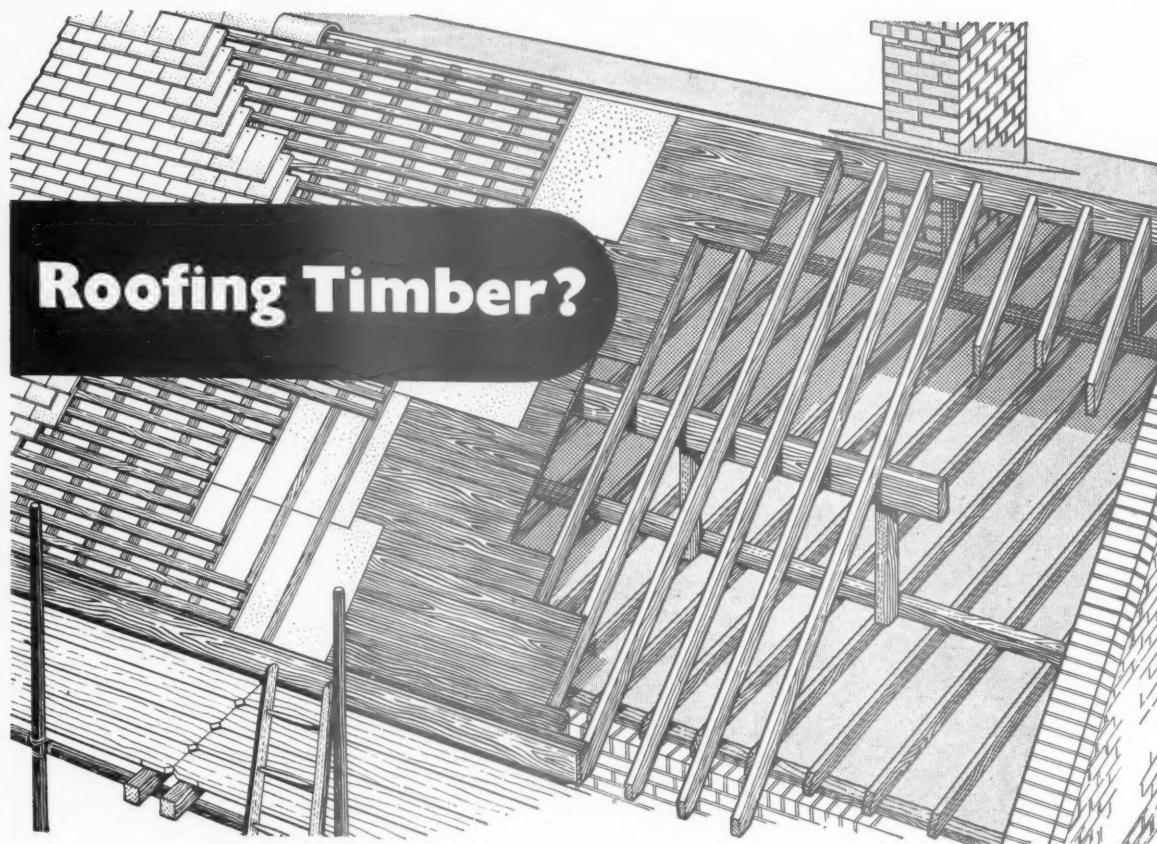
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In practice it was found that the application of this modular system required an entirely new approach by the architect. The architect is a man who, through the study and practice of his art, has not been trained in any form of industrial production, and it had been found that to have an architect design something and then hand his design over to an industrialist for expert industrial production afterwards was not feasible. The requirements of industrialization had to be incorporated right at the beginning, instead of the normal procedure of the architect drawing plans and passing them first to the industrial and equipment engineers, and then to the production industries. It was decided to establish a team in which all the various ideas were discussed by all concerned before the final plans were drawn. It was, unfortunately, not possible to collaborate with the contractor from the beginning because the Administration made the open tender system compulsory, and, further, insisted on separate tenders for each main building. It was, therefore, not possible to know at the beginning who the contractor would be. The contractor and the sub-contractors for the pilot house, which was tendered for separately, were men who had had no part in the drafting of the plans. The general contractor for the first large block was not the same as the general contractor for the pilot building, but the sub-contractors for the electrical, sanitary, heating and lift installations were those who had given the lowest bids in the first instance, which shows that they had already learned through personal experience the advantages which could be gained by industrializing on a large

Below : Diagrams showing the layout of the plumbing and the location of the services.





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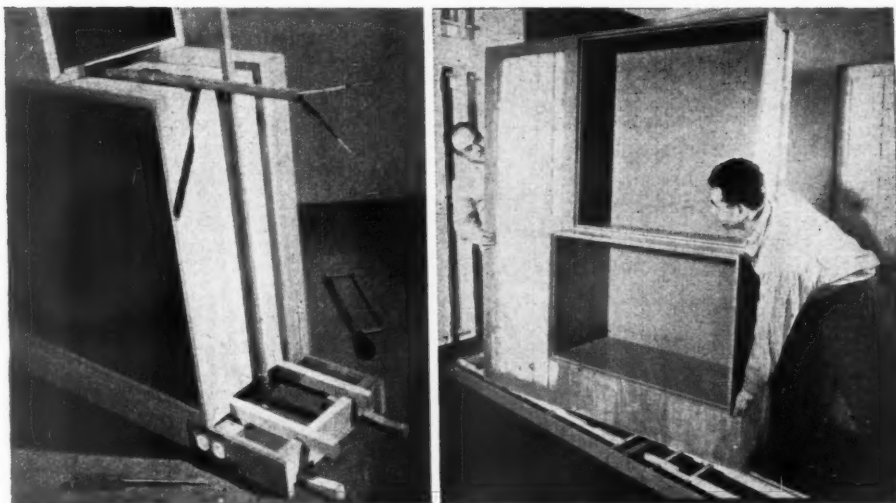
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Details of storage walls showing (right) the incorporation of electrical conduits and (extreme right) a typical unit being positioned on its plinth.



scale. For subsequent buildings, although general contractors changed, it was found that the same sub-contractors remained the lowest bidders.

The small pilot building consisted of four floors with two apartments per floor. It contained one staircase with all the characteristic details developed for the larger block. Since on so small a scale industrial production was not possible, all the equipment had to be produced by hand on the site. Even so, it was found that the installation was cheaper than it would have been by traditional methods. The contractor made a careful account of cost, which worked out at a few per cent cheaper than a traditional installation, even under these unfavourable experimental conditions.

When work was transferred to the main block, one of the main technical difficulties arose from the fact that all the piping was prefabricated in the shop with the accuracy with which metal elements are capable. These elements had to be mounted in a building eight storeys high built by traditional concrete methods, with the result that it was exceedingly difficult to obtain the same accuracy in the concrete skeleton as was obtained in the metal services. The solution of this difficulty was to introduce more prefabricated elements in the structural skeleton. Precast concrete members were vibrated in wooden forms by the Dutch "Chokbeton" method, which produced consistently accurate results. Since all the services were designed to rise alongside the elevator shaft, it was in this section of the building that the greatest accuracy was required. On every landing there was a metal frame surrounding the lift door. These frames were linked, the frame on one landing to the sill of the frame on the next landing, by a prefabricated steel filling plate. In fact this technique consisted in stacking a number of door cases and filling plates which, set one above the other, pro-

vided the datum from which all other work was set out. By this means it was possible to ensure that the measurement for the floor heights tallied exactly with the heights of the prefabricated piping which was installed afterwards, for accuracy only mattered in the service area.

The planning of the main blocks is, generally speaking, conventional. So that the plans of the apartments themselves should be the same in each storey, the entrance floor was left clear for communal facilities. But construction technique influenced planning chiefly by requiring that the services should be fed to each apartment through the lift shaft. The effect of this can be seen in a characteristic plan of the first block which is illustrated on page 687. Since the bathroom and kitchen of neighbouring apartments abut, no pipe runs enter the other rooms. All vertical pipes, the garbage chute, fire-fighting equipment, and both gas and electric meters are mounted at the back of the lift shaft, the meters being read through a special doorway in the lift car. Air heaters are fixed on either side of the shaft, their regulators being in the hall of each apartment. Electrical fuses are all situated in the shaft, all connections with the company's equipment being fully prefabricated. The horizontal pipe runs and their connections presented no particular difficulty: where a connection was required an opening was left in the wall one module square to give room for fixing. This opening was later covered by an enamelled steel plate designed in exact modular co-ordination with the wall tiles to avoid cutting. In order to provide closet space, and at the same time to reduce the area of finished wall surface, storage walls have been designed from standard elements which can be put together in many different combinations. These are mounted on a hollow plinth which is high enough to contain

the electrical wiring, while at the head of the storage wall is a second horizontal unit designed to receive the hot air ducts.

To give an idea of economy to date in the two blocks of 180 apartments which have so far been completed—and it must be remembered that industrially these represent a very small order and mean only good shop production rather than real industrial production—the saving in costs was of the order of 28-30 per cent. The shop production was carried out by setting up special jigs, tables and a production line to make it as economical as possible and to simplify the work. It seems likely that by using full industrial production on a large but reasonable scale the saving would rise to 55 or even 60 per cent. To achieve this, however, the problem would have to be tackled differently, the tendering system would have to be changed, and different relations would have to be established between the contractors and industrialists.

In the third and last experimental block it is hoped to realize a building in accordance with the Duplex type developed by Le Corbusier. Full modular co-ordination of the structure raises a problem with the column thicknesses which must not vary if the final walls are to be of similar dimensions for all floors. Therefore a system has been devised to prefabricate columns of the same outside dimensions from top to bottom but with a smaller solid cross-sectional area for those on the top floor than for those below. When all sections are in position the columns will be post-tensioned vertically.

It is hoped that every element, without exception, will be industrially produced, so that the experiment may close by demonstrating that a building can become purely and simply an assembly job.

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

9.46 design: general ROADS RESEARCH

Roads Research. Index of Publications of the Road Research Laboratory. (HM Stationery Office, 1954. 1s. 9d.)

This index of publications covers from 1933 to 1953. Summaries of major publications are included and the index covers papers to learned societies as well as all HMSO publications. A useful reference to know of.

15.118 materials: applied finishes, treatments FIBRE BOARD FIXINGS

Metal Fixing Systems. H. Churchman. (Wood, April, 1954.)

Sketches of eight proprietary methods of dry fixing for fibreboards. Brief notes on suspended ceiling and methods of fixing and upon the thermal and acoustic results obtainable.

16.108 materials: miscellaneous BRICKWORK IN DENMARK

Brickwork in Denmark. Neil T. Coates. (The Brick Bulletin. Vol. 2. No. 8. April, 1954.)

Seven pp. illustrated article on recent brick design in Denmark. A number of illustrations of highly patterned walling. Interesting descriptions of four high buildings with load bearing brick construction up to eleven storeys high. Enough sketch plans and sections to show arrangement and thickness of walls.

18.148 construction: theory REINFORCED CONCRETE DESIGN

Concrete Engineers' Handbook. (Concrete Association of India. Bombay, India. 1953. Rs. 5/8.)

Handbook compiled by Concrete Association of India primarily for designers with little theoretical knowledge of reinforced concrete. Design practice follows British pattern with odd references to American. In view of the wide variation in quality of materials the handbook gives many charts for column, beam, slab and retaining wall design based on 600 to 1,200 p.s.i. concrete stresses and 1,600 to 1,800 p.s.i. steel stresses. The old LCC regulations and DSIR Code are quoted but there is no reference to present day regulations.

18.149 construction: theory TIMBER STRUCTURAL DESIGN

Design Manual for Timber Connector Construction—Supplement No. 1. (Macandrews & Forbes Ltd. London, 1954.)

The design manual was reviewed in the JOURNAL (p. 657), May 21, 1953. This supplement contains the essential design data relating to the 4 in. diameter "Teco" double bevelled split ring connector.

Sections 1 and 2 of the design manual which dealt with the choice of connectors and general design data are generally applicable to the 4 in. diameter split ring. Section 4 which dealt with design and assembly of joints is substantially rewritten to include all the information particularly appertaining to the 4 in. diameter split ring.

22.67 sound insulation and acoustics BROADCAST SOUND AND TELEVISION

Architectural Design: A special number dealing with various aspects of broadcasting, e.g. transmission (television studios, etc.), reception (Aerial installations, listening room acoustics, etc.) and equipment. March, 1954. Vol. XXIV. No. 3. Various Authors.

A foreword by Sir George Barnes and a general appreciation of the architectural problems involved in the creation of television studios by Norman Collins precede a description of the new B.B.C. Television Centre at the White City, which appears to flout most of the rules proposed in the foregoing article. The developments which have taken place at Lime Grove, the B.B.C.'s temporary television studios, are described in an article which will mainly be of interest to planners. Two articles on the installation of television aerial systems with multiple outlets (for blocks of flats) are followed by articles dealing with the housing of receivers, in some cases as built-in units, with lighting for television viewing and room acoustics for high fidelity sound reproduction. Most of the information is of rather an esoteric nature but may contain a few facts of use to designers faced with these specialized problems.



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SHEETS

CANCELLATION

Sheet 14.B1 (published 15.5.52) has been cancelled. It is to be replaced by three Sheets: 14.B1 in the issue of 27.5.54, and 14.B2 and 14.B3 in subsequent issues.

43.E1 and 43.E2. REFERENCE BACK

Readers are asked to note the following amendment and to correct their copies of the Information Sheets in question:

Face of 43.E1—drawing headed "Standard Work Top": note should read "overhang 1 in. at front" deleting " $\frac{1}{2}$ in. at ends." Drawing headed "Type 2": vertical division should be omitted.

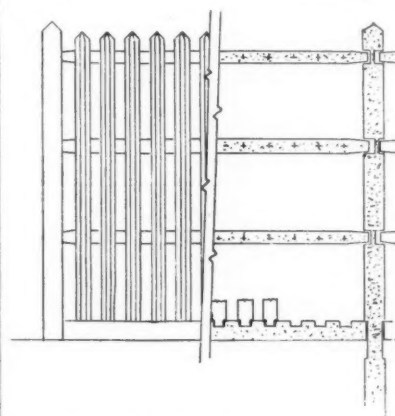
Reverse of 43.E1—under heading "Construction": add at end of first paragraph "Plywood backs are supplied at the manufacturer's discretion." Sub-heading "Work Tops," end of paragraph: delete " $\frac{1}{2}$ in." before "ply top" and delete also "and approximately $\frac{1}{2}$ in. over each end." Under heading "Fittings," sub-heading "Handles": delete sizes and add "and are supplied loose" after "hardwood."

THE INDUSTRY

From the Industry this week, Brian Grant reports on precast concrete fencing, aluminium roofing, wall facings and windows, timber construction, and remote control for windows and ventilators.

FENCING

The drawing below shows a new type of precast concrete fencing which has been developed by the manufacturers in conjunction with the Surveyor's department of the Southgate Borough Council. It is produced in heights of 3, 5, 6 and 8 feet, and the posts, rails and pales are fitted on site, so that it is possible to replace individual units at any time, and without moving the posts, which are of 6 in. by 6 in. section, and spaced at 9 ft. centres. Solid panel



Elevation and Section of concrete fencing.

fencing up to 7 ft. 6 in. high is also made, and a triple run of barbed wire can be carried over the fencing. (Bell & Webster Ltd., Essex Road, Hoddesdon, Herts.)

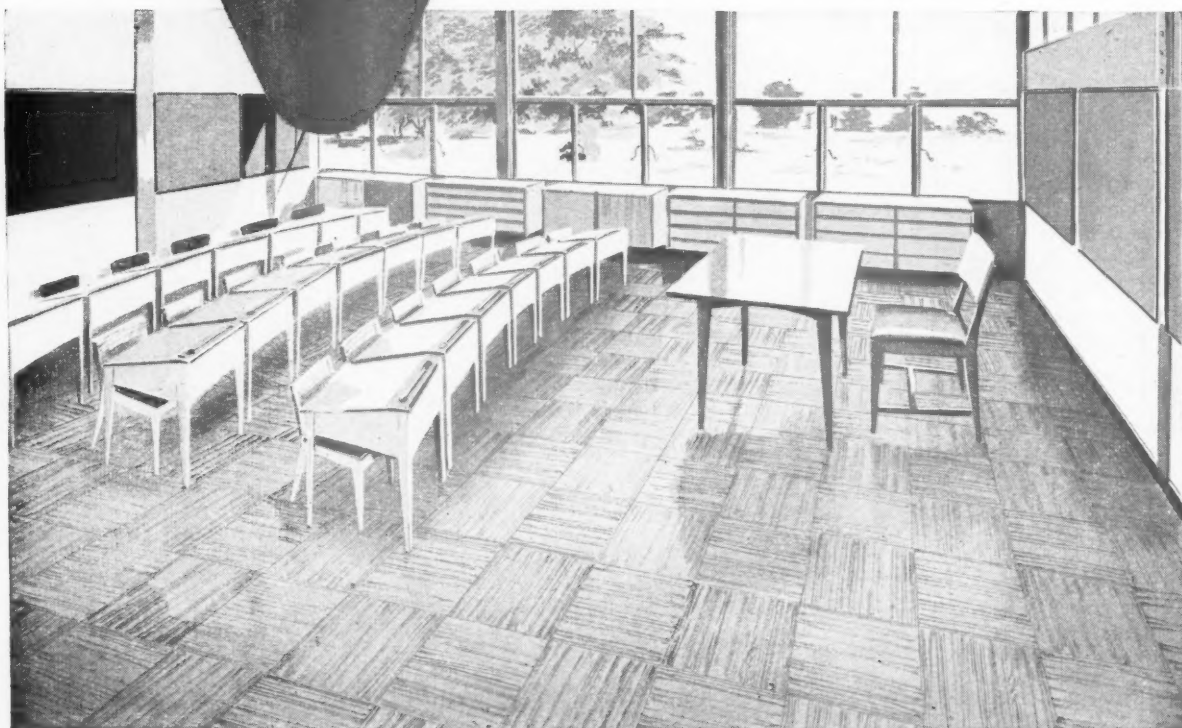
ALUMINIUM ROOFING

Aluminium as a roofing material is now becoming quite a well established practice, but the usual 3 inch corrugations used in galvanized steel sheet are not really suitable for the comparatively large purlin spacings which are normally required for an industrial roof. The point has already been noticed by the manufacturers of asbestos cement sheeting, who have for years been producing various alternative sections, and the aluminium industry has recently followed suit. Experimental work carried out by Aluminium Laboratories in conjunction with the Aluminium Development Association has led to a new type of industrial sheet, which has an asymmetrical section with deep straight sided corrugations at 5 in. centres. A side lap of only one corrugation is needed, and the sheet as laid is not much heavier than standard aluminium sheet with 3 in. corrugations, while since spans of up to 9 ft. are possible the number of purlins and attachments required is reduced. The troughs in the sheet are wide for rapid water shedding, and the sheet is strong enough to withstand the weight of a man without local buckling of the corrugation,



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Corrugated aluminium sheeting.

while the narrow crests between troughs will resist denting by the boots of maintenance gangs. The sheets are made in five and six pitch widths, having effective covering widths of 25 and 30 inches, and the standard thickness for roofing purposes is 20 s.w.g., which will withstand the concentrated load of 200 lb. on a 5 inch square demanded by CP no. 3. Thinner sheet of 22 gauge can be used for siding. Standard sheet lengths vary from 6 ft. to 12 ft. in increments of a foot though others can be produced if required; split roll top ridgings and closure strips are also made.

Applied to a building the profile of this section is quite pleasing, and the metal weathers to an all over grey which can be quite attractive. (Northern Aluminium Co. Ltd., Banbury, Oxon.)



Radiation S4183 cooker.

WALL FACINGS AND WINDOWS

Visitors to last year's Building Exhibition will remember that Hope's were showing a system of continuous fenestration known as the Windogrid.

Now, a newly published list (No. 295) sets out the system in detail, with the usual admirable drawings always found in Hope's lists. Windogrid consists basically of a skeleton of galvanized steel vertical members running from floor to floor, where they are bolted to the concrete or steel-work of the main structure, spaced at any required module and then connected horizontally, either at floor levels or at any other convenient point, by galvanized steel transoms. Standard rolled sections are used, of varying depth to suit the span from floor to floor and between the verticals. This skeleton of steel members is then capped externally with extruded aluminium sections of special design. The same material is used for horizontal glazing bars which can be introduced to accommodate opening casements, to reduce the size of glass panes, or to suit various types of solid panel. Wind pressure is transmitted

to the floors by the steel mullions and transoms, so that light non-load bearing materials can be used for any solid panels which may be needed to mask the structure, while weathertightness is ensured by the design of the aluminium capping, which also provides ample bedding for casements. Owing to the flexibility in the design of the system, expansion joints are not needed where only normal temperature variations are to be met, but special arrangements can be made for extremes of heat or cold.

Most of the well-known types of wall panelling or infilling can be used, and are set in a plastic compound and secured by metal beads. Hope's also supply metal panels filled with Fibreglass in various grades and thicknesses, and Insulight sealed double glazing can also be used to reduce heat losses. (Henry Hope & Sons, Ltd., Smethwick, Birmingham.)

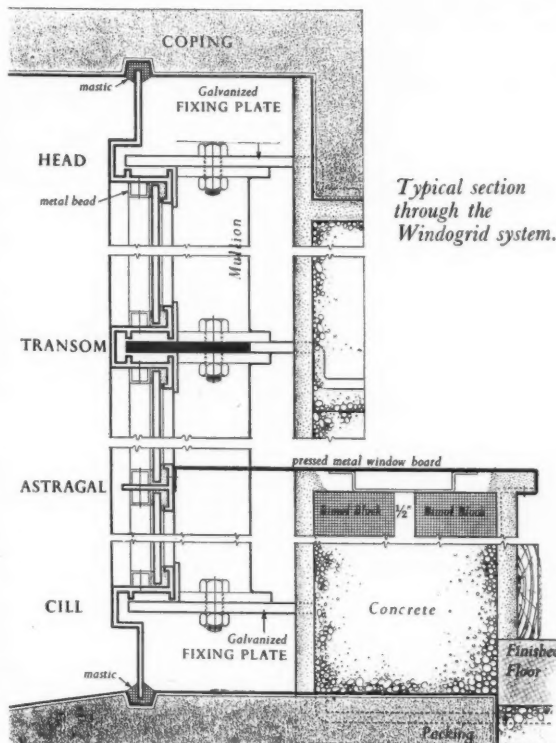
TIMBER CONSTRUCTION

Some time ago Messrs. MacAndrews & Forbes published a Design Manual for Timber Connector construction, but at that time only the 2½ in. diameter Teco split ring connector was available in this country. Now that the 4 inch large size is in production they have issued a supplement giving all the essential data of allowable loads, edge and end distances with loads at various angles to the grain and other essential information. Copies of the original publication and the new supplement are obtainable free of charge. (MacAndrews & Forbes, Ltd., 2 Caxton Street, London, S.W.1.)

REMOTE CONTROL FOR WINDOWS AND VENTILATORS

A recent handbook from Teleflex Controls gives details of the various types of remote

control gear made by this firm. The ordinary types of control, operated by rods and bell cranks, are reliable enough, but often have the disadvantage of looking clumsy when applied to a large range of windows. The Teleflex system used cables of flexible steel wire round which is wound a con-



Typical section through the Windogrid system.

tinuous helical wire which works as a drive rack, the inner cable transmitting both pull and push. The complete cable is contained in a conduit which can be bent to quite a small radius, so that installations can be neat and unobtrusive. The system can be arranged to drive a number of windows simultaneously, and the drives can be operated by hand or electric motor. Many different types of control and driving units are standardized, and all of them are fully described with dimensioned drawings. (Teleflex Products Ltd., Chadwell Heath, Essex.)

NEW COOKER

The illustration on the left shows the new Radiation type S4183, which sells through gas undertakings at the very reasonable price of £23 12s. 6d. The oven outlet is in the centre of the splash back to prevent staining of the wall and also to help in warming the plate rack, and all the taps are of the safety type which have to be pushed in before they can be turned on. The only criticism that one might make is that the gas lighting match looks something of an afterthought, and, as I know from experience, is an irritation if one wants to put the cooker near a sink or refrigerator in a tightly planned kitchen. (Radiation Ltd., 7 Stratford Place, London, W. 1.)

CORRECTION

Messrs. Wandsworth Electrical, 136, Cromwell Road, S.W.7, point out that they are the suppliers of the switchgear for Mr. Gibberd's London Airport buildings. It was this firm which was referred to (April 15, page 473) in the note mentioning the sensible use of circular surface plates.

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

ENQUIRY FORM

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AJ 3.6.54

Buildings Illustrated

Causeway Green County Primary School (Junior Department) in Pennicricket Lane, Oldbury, Worcestershire (Pages 682-684), for the Worcestershire County Council. Architects: F. R. S. Yorke, E. Rosenberg and C. S. Mardall, F.F./A.R.I.B.A., T. R. Evans, A.R.I.B.A. Associate-in-Charge, J. G. Fryman, A.R.I.B.A. Assistant-in-Charge, in association with F. W. B. Yorke and H. M. Barker, F/L.R.I.B.A. Consulting Engineers: Messrs. Clark, Nicholls and Marcel. Heating Consultants: Messrs. Oscar Faber & Partners. Quantity Surveyors: Oswald A. Wainwright, F.R.I.C.S. General Contractor: Edgar Crowder, Ltd. Clerk of Works: Mr. G. Forrest. General Foreman: Mr. Day. Sub-contractors: Concrete blocks, Calderete Ltd.; bricks, Himley Brick Co. Ltd., London Brick Co. Ltd., Richard Parton (Builders Merchants) Ltd., Tifford Brick Co. Ltd.; stone, London & Sussex Merchants, Ltd.; artificial stone, Constone; structural steel, patent flooring, Hills (West Bromwich) Ltd.; asphalt, roofing felt, dampcourses, William Briggs & Sons Ltd.; glass, Pilkington Bros. Ltd., Chance Bros. Ltd.; woodblock flooring, Vigers Bros. Ltd.; central heating, water supply, Rosser & Russell Ltd.; electric light fixtures, Merchant Adventures of London Ltd., Hailwood & Ackroyd Ltd.; ventilation fans, Vent Axia Ltd.; sanitary fittings, Stitsons Sanitary Fittings Ltd.; stairtreads, Jacarells Ltd.; door furniture, Rennis Ltd.; metal casements, window furniture, Williams & Williams Ltd.; bells, clocks, Gent & Co. Ltd.; sunblinds, Tidmarsh & Sons; metalwork, The Birmingham Guild Ltd.; stonework, Messrs. Gornal Quarries; tiling, R. G. Robertsons (Tiles) Ltd.; textiles, Gerald Holton; school fittings, Tylers (Architectural) Ltd.; cloakroom fittings, Clark Hunt

& Co. Ltd.; electric wiring, Etna Lighting & Heating Co. Ltd.

Announcements

H. St. John Harrison and Gillian Harrison, F.F./R.I.B.A. (Cooke & Harrison), have moved to No. 8, Smith Street, S.W.3 (Tel.: Sloane 7860).

Thomas Mitchell, B.Sc., A.R.I.B.A., 20, Bedford Square, W.C.1, has taken into partnership Eric Cole, A.R.I.B.A., who has been a member of his staff for several years. The name and address of the firm remains unchanged.

Ian Colquhoun, A.R.I.B.A., has been appointed architect to The Wall Paper Manufacturers Ltd., and will take charge of the Advisory Department to be set up at the London Office at 125, High Holborn, W.C.1, under the director in charge, E. A. Entwistle.

The partnership of Pearce & Snell, quantity surveyors, has been dissolved. Robert F. Pearce, F.I.A.S., will continue to practice alone from 50, Lincoln's Inn Fields, W.C.2 (Tel.: Chancery 4101).

Goodenough Contractors' Machinery Ltd., of 70/72, London Road, Twickenham, have changed the title of the company to Goodenough Pumps Limited.

Correction

T. McEwan Porter, A.R.I.B.A., and Peter Wakefield, A.R.I.B.A., associates of the late G. Blair Imrie, F.R.I.B.A., of Teffont Magna, Salisbury, have formed a partnership to continue his practice and that of B. Wakefield & Son of 18, Orchard Street, Bristol 1. They will continue to practise from the same addresses pending the establishment of a combined office, and not as published in the A.J. for 13.5.54.

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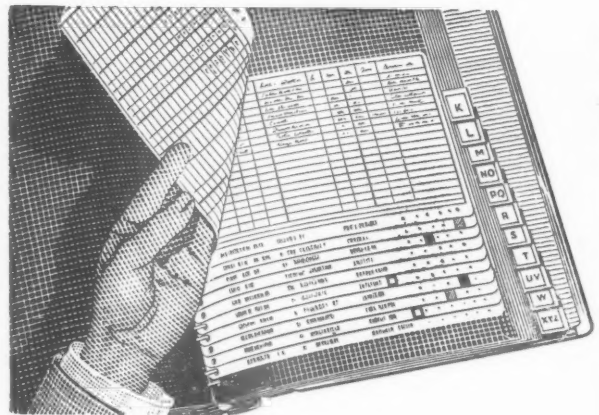
The overlapping visible edge shows at sight every undertaking (whether few or many) together with the progress of each contract, drawings and plans submitted, licences obtained, approvals from Public Health and Town and Country Planning Authorities.

Coloured signals pin-point urgent action, hold-ups, outstanding work.

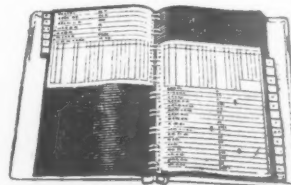
Details of contractors involved, their estimates or tenders, costings, etc., are all controlled. Water, gas and other services available, together with drawing-office costs, estimates, fees, etc., are all provided for.

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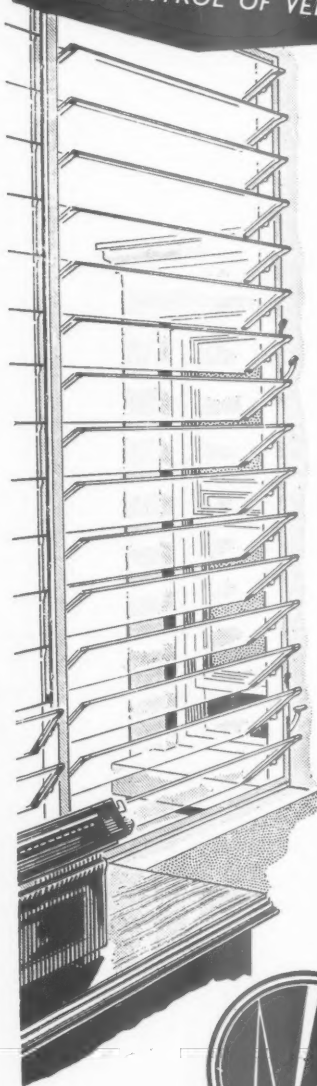
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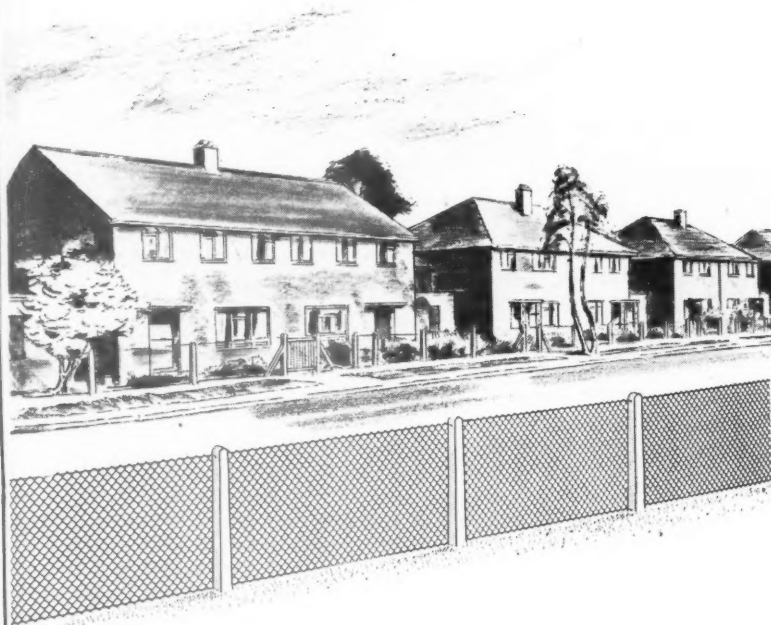


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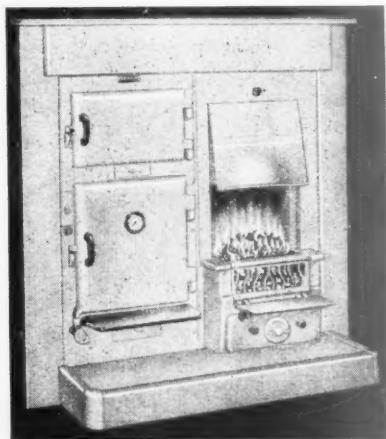
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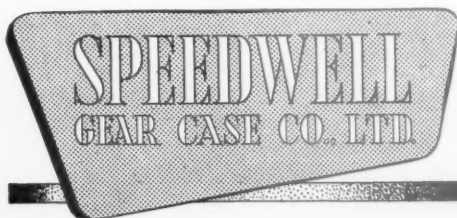
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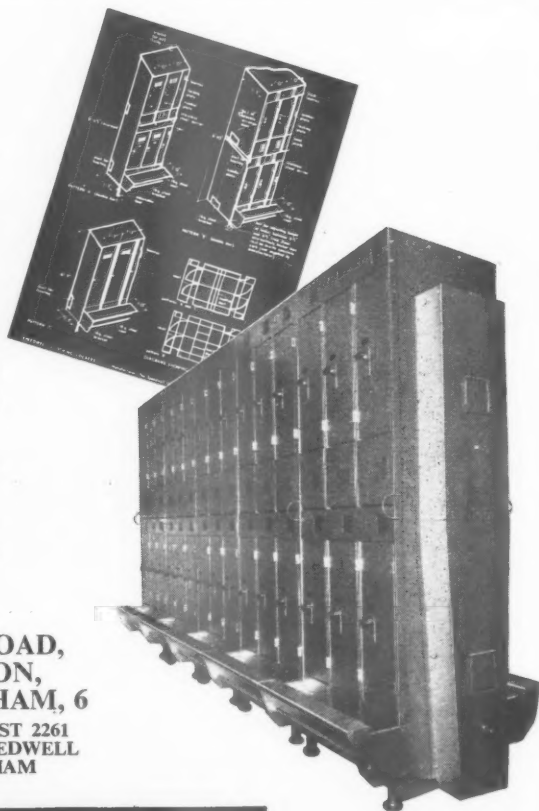
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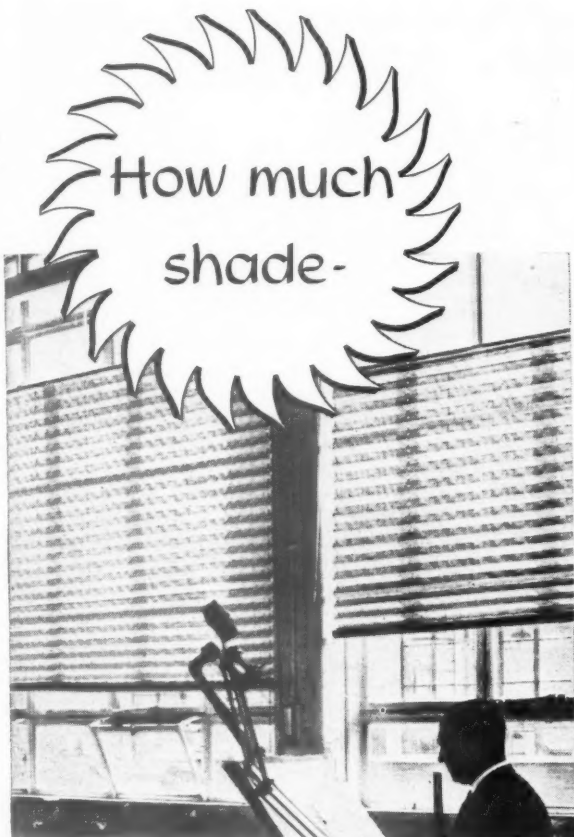
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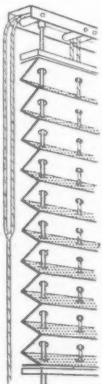


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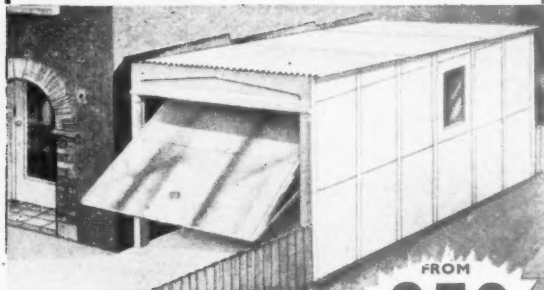
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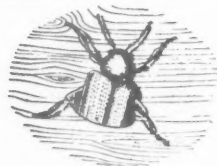
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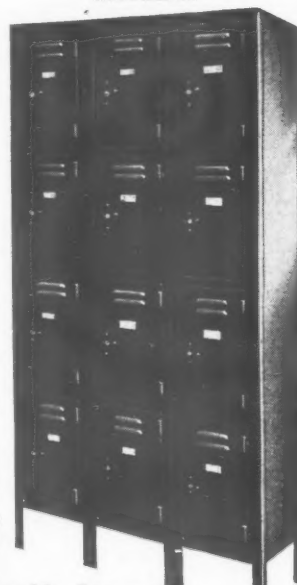
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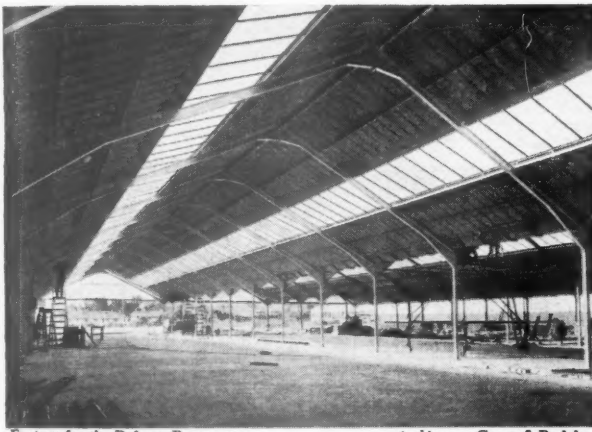
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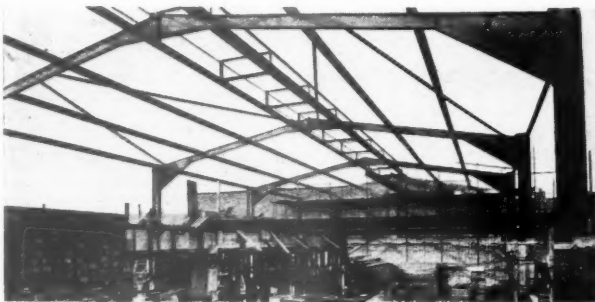


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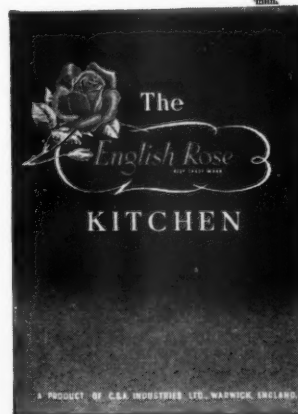
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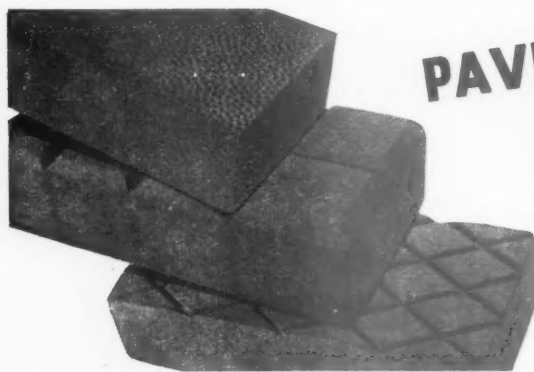
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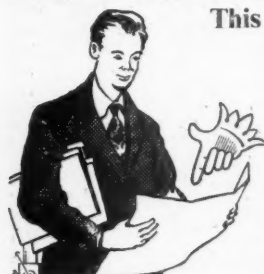
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Replies to Box Numbers should be addressed care of "The Architects' Journal," at the address given above.

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T. B. BOWEN,
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The Guildhall,
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R. F. G. THURLOW,
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Applications, giving details of experience and qualifications, and endorsed "Architectural Assistant" together with copies of three recent testimonials, should be received by the undersigned not later than Saturday, 12th June, 1954.

F. W. ROBERTS,
Town Clerk. 2739

Town Hall, Nelson.
18th May, 1954.

SUDAN GOVERNMENT.

The Director of Education invites applications from suitably qualified candidates for the posts of LECTURERS in the following Departments of the Khartoum Technical Institute:-

(a) Building (10108).

(b) Engineering (10128).

(c) Commerce (10118).

Qualifications: (a) and (b), a degree in Civil or Mechanical Engineering or a technical equivalent, e.g., A.M.I.Mech.E., A.M.I.C.E., A.R.I.B.A., etc. One of the posts in the Department of Building is available for Structural Engineers only.

Candidates should be not less than 30 years of age on appointment. Industrial experience is essential. Experience in a similar appointment would be an advantage.

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N.J.C. Conditions of Service. Canvassing will disqualify. Candidates must disclose in writing whether to their knowledge they are related to any member or senior officer of the Council.

Applications, stating age, qualifications and experience, with the names of two persons to whom reference can be made, to be sent to the undersigned by 7th June, 1954.

A. RONALD CLARK, A.R.I.B.A.,
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County Offices, Lincoln. 2734

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APPLICATIONS are invited from Registered Architects for the appointment of ASSISTANT ARCHITECT in the Department of the Council's Housing Architect at a salary in accordance with Grade A.P.T. VI. (£695 + £20 £25-£760).

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The appointment will be terminable by one month's notice on either side and will be subject to the National Scheme of Conditions of Service. The successful candidate will be required to pass a medical examination and will contribute to the Council's Superannuation Fund.

Applications on Forms to be obtained from the Housing Architect, Mr. C. Ginglell, A.R.I.B.A., A.R.I.C.S., 13, Ystrad Road, Pentre, Rhondda, accompanied by two recent testimonials, are to be sent to the undersigned, in plain envelopes endorsed "Assistant Architect," so as to arrive not later than MONDAY, 21st JUNE, 1954.

D. J. JONES,
Clerk of the Council.

Council Offices,
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SUDAN GOVERNMENT.

The Director of Education invites applications for the post of PRINCIPAL-DESIGNATE, Khartoum Technical Institute. The successful candidate will be required to take up his duties in the Sudan by August, 1954, at the latest.

Qualifications required are, a degree in Engineering of a recognised University or equivalent technical qualification, experience in industry, and the candidate should have held a post in a Technical School or Institution at administrative level. Teaching experience is essential. Age limit 45.

In addition to the normal duties associated with the post the successful candidate will be required to assume responsibility, under the general direction of the Director of Education, for the administration and supervision of Technical Education in the Northern and Southern Sudan.

Appointment will be on Short Term Contract with bonus, determinable at any time by six months' notice from either side, provided that on or after 1st April, 1955, the period of notice shall be three months and not six. Salary: £E.2,500 per annum. A cost-of-living allowance, which is reviewed quarterly, is payable. An outfit allowance of £E.50 is payable on appointment. Free passage on appointment, annual leave after the first four. At present there is no income tax in the Sudan.

Further particulars and application form will be sent on receipt of a postcard only, addressed to The Sudan Agent in London, Sudan House, Cleveland Row, St. James's, London, S.W.1, quoting "Principal 1007," and name and address in block letters. 2781

CITY AND COUNTY OF BRISTOL.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent staff appointments:-

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. VII (£785-£825 p.a.).

(b) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. VII (£735-£810 p.a.).

(c) SENIOR QUANTITY SURVEYOR, Grade A.P.T. VII (£735-£810 p.a.).

(d) ASSISTANT ARCHITECTS, Grade A.P.T. II (£520-£565 p.a.).

(e) JUNIOR ASSISTANT ARCHITECT, Grade A.P.T. I (£490-£535 p.a.).

Candidates for appointments (a) and (b) must be Associate Members of the R.I.B.A. or hold equivalent qualifications, and have had considerable experience in design, construction, and contract administration, preferably with a large Local Authority; for appointment (c) must be Members of the R.I.C.S. (Sub-Division III—Quantities) or equivalent; and for (d) and (e) must have passed the Intermediate Examination of the R.I.B.A.

Further particulars and application forms obtainable from me. Applicants must state post for which they are applying. Application forms to be received by 9th June.

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

The Council House, College Green,
Bristol, 1. 2787

BUCKS COUNTY COUNCIL.

APPOINTMENT OF DEPUTY COUNTY ARCHITECT.

Applications are invited from Fellows or Associate Members of the Royal Institute of British Architects for the appointment of DEPUTY COUNTY ARCHITECT, at a salary of £1,500 per annum, rising by annual increments of £50 to £1,750 per annum.

The appointment is superannuable and subject to medical examination.

Further particulars and forms of application may be obtained from the undersigned, to whom applications must be delivered by 3rd July, 1954.

GUY R. CRUICKSHANK,
Clerk of the Bucks. County Council. 2780

ARCHITECT.

Willenhall U.D.C. invite applications for the post of ARCHITECT at a salary in the range £900-£1,100. The post is subject to superannuation Acts, conditions of service of Joint Negotiating Committee for Chief Officers and one month's notice. Applicants must be Associates of the Royal Institute of British Architects and have had wide experience in architectural design and construction, particularly of houses. Applications stating age, qualifications, experience, present and past appointments, two referees and whether applicant is related to any member or senior officer of the Council must reach the Clerk of the Council, Town Hall, Willenhall, Staffs., by 12th June, 1954. 2784

CITY OF LEICESTER.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, A.P.T., Grade VII (£735-£810 per annum).

Applicants must be Registered Architects, and preference will be given to those holding a recognised architectural qualification and having housing and central redevelopment experience.

The appointment will be subject to the National Scheme of Conditions of Service, passing a medical examination, and to one month's notice on either side.

Applications, stating age, experience, qualifications, past and present appointments with present salary, together with copies of two recent testimonials, should be sent to the undersigned not later than Friday, 11th June, 1954.

J. H. LLOYD OWEN,
City Architect. 2808

10, Loseby Lane, Leicester.

CITY OF BIRMINGHAM.

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

SCHOOLS SECTION:

(a) ASSISTANT PRINCIPAL ARCHITECT, Grade A.P.T. X (£920-£1,050 per annum). The successful candidate will be in charge of a large Drawing Office engaged upon the Major School Building programme. An extensive knowledge is required of the planning, design and erection of all types of school buildings in both traditional and non-traditional construction.

(b) SENIOR ASSISTANT ARCHITECTS, Grade A.P.T. VIII (£785-£860 per annum). The successful candidates will be responsible for the design and supervision of school buildings, and must have had good experience in the erection of large traditional and non-traditional buildings.

(c) ASSISTANT ARCHITECTS, Grade A.P.T. VII (£735-£810 per annum). Applicants must have had good experience in the design and erection of large buildings. Experience of school buildings preferable, but not essential.

(d) ASSISTANT ARCHITECTS, Grade A.P.T. V (£620-£670 per annum).

HOUSING AND GENERAL SECTIONS:

(e) ASSISTANT ARCHITECT, Grade A.P.T. VII (£735-£810 per annum).

(f) ASSISTANT ARCHITECTS, Grade A.P.T. VI (£695-£760 per annum).

(g) ARCHITECTURAL ASSISTANTS, Grade A.P.T. IV (£580-£625 per annum).

The Department is carrying out (1) a large housing programme which includes multi-storey flats and large shopping centres, as well as the redevelopment of central areas, (2) the design and erection of large public buildings.

Applicants must hold the Associate Membership of the R.I.B.A., except (g), for which the R.I.B.A. Intermediate Examination or equivalent qualification is required.

The posts are permanent, superannuable, subject to a medical examination, and to one month's notice on either side.

Applications, endorsed with the heading of the post, stating age, present post and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than the 14th June, 1954.

Canvassing disqualifies.

A. G. SHEPPARD FIDLER, City Architect.

Civic Centre, Birmingham, 1.

OXFORDSHIRE COUNTY COUNCIL.

Applications are invited from suitably qualified persons for the following appointments in the County Architect's Department:—

(a) PRINCIPAL QUANTITY SURVEYOR—A.P. & T. Grade VII/VIII (£735-£860).

(b) ASSISTANT QUANTITY SURVEYOR—A.P. & T. Grade IV/V (£580-£670).

(c) QUANTITY SURVEYOR'S ASSISTANT—A.P. & T. Grade III/IV (£550-£625).

(d) QUANTITY SURVEYOR'S ASSISTANT—A.P. & T. Misc. Grade II (£350-£410).

(e) QUANTITY SURVEYOR'S ASSISTANT—A.P. & T. Misc. Grade I (£320-£365).

Candidates for (a) should be Associate Members of the R.I.C.S. (Quantities).

Preference will be given to candidates for posts (b) and (c) who have passed the Intermediate Examination of the R.I.C.S. and applicants should have experience in the preparation of Bills of Quantities, interim valuations and final accounts.

The appointments are subject to the provisions of the Local Government Superannuation Act 1937/53 and to medical examination.

Form of application may be obtained from the County Architect, Park End Street Offices, Oxford, and should be completed and returned to him not later than the 12th June, 1954.

GERALD GALE BURKITT, Clerk of the Council.

County Hall, Oxford.

LANCASHIRE COUNTY COUNCIL—

PLANNING DEPARTMENT.

SENIOR PLANNING ASSISTANT (ARCHITECTURAL), A.P.T. Grade VI (£695-£760), required at Liverpool. Applicants should be qualified Architects, preferably with experience in planning; a planning qualification in addition will be an advantage. Duties will include the preparation of advisory housing layouts, etc. Applications, giving age, qualifications, experience, present appointment and salary, and two referees, to County Planning Officer, East Cliff County Offices, Preston, by 16th June, 1954.

WARWICKSHIRE COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECTS, grade A.P.T. VIII (£785-£860). Applicants should be associate members of the Royal Institute of British Architects and should have sound experience in the design and preparation of drawings and site supervision. Experience in non-traditional types of construction will be an advantage. One of the successful applicants is required to deal with a new Council Chamber.

The appointment will be subject to the provisions of the Local Government Superannuation Acts, 1937-1953 and the successful applicant will be required to pass a medical examination.

Applications should be on a form which can be obtained from G. R. Barnsley, F.R.I.B.A., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS, Clerk of the Council.

Shire Hall, Warwick.

CORPORATION OF HARROW.
BOROUGH ENGINEER & SURVEYOR'S DEPARTMENT.

Applications are invited for the appointment of TECHNICAL ASSISTANT (MAINTENANCE), A.P.T. Grades II/III (£520-£595 per annum plus London "weighting") in the Department of the Borough Engineer and Surveyor.

Applicants should have had experience in property surveys, preparation of specifications and scale drawings, supervision of works and checking accounts for maintenance and repair work. Duties will be in connection with the maintenance of schools and municipal buildings generally, and preference will be given to holders of recognized technical qualifications. The successful applicant will be required to provide a motor car, for which an allowance will be paid.

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

The Council is unable to assist in obtaining of housing accommodation. Canvassing will be a disqualification.

Forms of application may be obtained from the undersigned to whom they should be returned not later than Friday, 25th June, 1954.

D. H. PRITCHARD, M.A., Town Clerk.

Town Clerk's Office,

Harrow Weald Lodge,

Harrow,

Middlesex.

2827

UNIVERSITY OF HONG KONG.

Applications are invited for the posts of SENIOR LECTURESHIP, LECTURESHIP, and ASSISTANT LECTURESHIP IN ARCHITECTURE.

Emoluments for a single man on expatriate terms are as under:

SENIOR LECTURESHIP—£1,405 × £40—£1,565 per annum.

LECTURESHIP—£1,240 × £40—£1,480 per annum.

ASSISTANT LECTURESHIP—£920 × £35—£1,095 per annum.

(Additionally, a Family Allowance and temporary and variable High Cost of Living Allowance are paid as applicable.)

Applicants must be qualified Architects, and Fellows or Associates of the R.I.B.A., and should have had practical and teaching experience.

First class sea passages are provided for expatriate staff.

Further particulars and information as to the method of application may be obtained from the Secretary, Association of Universities of the British Commonwealth, 5, Gordon Square, London, W.C.1.

The closing date for the receipt of applications, in Hong Kong and London, is 15th July, 1954.

2793

GOVERNMENT OF NORTHERN IRELAND.

VACANCY FOR ARCHITECT.

Applications are invited from registered Architects for a post in the Ancient Monuments Branch of the Ministry of Finance. The post is an unestablished one, but the successful candidate will be considered for promotion and for permanent and pensionable posts as vacancies arise.

Salary £675 × £25 — £750 × £30 — £960 × £40 — £1,000.

Entry point depends on age. Minimum of scale is linked to age 26, with an increase of one increment for each year above that age, subject to a maximum entry point of £900.

Applicants should have specialized knowledge of the maintenance and preservation of ancient monuments and have had experience in the study and analysis of the structural development of historic buildings. Proficiency in draughtsmanship and photography would be an advantage.

Preference will be given to suitably qualified candidates who served in H.M. Forces in the 1914-18 or 1939-45 Wars, provided the Ministry is satisfied that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.

Application forms may be obtained from the Director of Establishments, Ministry of Finance, Stormont, Belfast, to whom they should be returned with copies of two recent testimonials, so as to reach him not later than 14th July, 1954.

2829

CITY OF SHEFFIELD.

CITY ENGINEER AND SURVEYOR'S DEPARTMENT.

SENIOR PLANNING ASSISTANT.

GRADE VIII.

Applications are invited from persons with Town Planning experience, and who are suitably qualified, for position of Senior Planning Assistant, Grade VIII (£785-£860), on the staff of the City Engineer and Surveyor and Planning Officer (H. Foster, M.I.C.E., M.I.Mun.E.).

Qualifications: A.M.T.P.I., or A.M.I.C.E., or A.R.I.B.A., or A.R.I.C.S., or Engineering Degree, or A.M.I.Mun.E.

Superannuable posts, N.J.C. Conditions of Service; medical examination.

Applications, stating age, education and training, qualifications, experience, present and past appointments (with dates and salaries) and quoting the names of two referees, by the 11th June, 1954, to:—

JOHN HEYS, Town Clerk.

Town Hall, Sheffield, 1.

2786

BRITISH TRANSPORT COMMISSION.

British Road Services invite applications for the position of DRAUGHTSMAN (ARCHITECTURAL) in their Divisional Surveyor's Department in Leeds City Centre. Applicants should be thoroughly experienced in surveys of land and buildings, preparation of plans, working drawings (under supervision) from rough drafts and should be a neat and expeditious draughtsman. Commencing salary £445 per annum, rising to £485 per annum. Applications, in first instance, in duplicate in own handwriting, giving date of birth, present post and salary, past experience and positions held (in chronological order), together with any other relevant information, including the names of two referees, should be forwarded within seven days of the appearance of this advertisement to the Divisional Staff Officer, 51/57, Clarendon Road, Leeds, 2.

2796

JUNIOR ARCHITECTURAL ASSISTANT required by University Department. Commencing salary: £290-£375, according to age and experience, contributory pension scheme. Wide variety of interesting work, giving opportunity of valuable experience towards qualifications. Applicants should have completed National Service, and have a sound knowledge of working drawings, details and surveys. Reply, giving full details, to Box 2809.

HERTFORDSHIRE COUNTY PLANNING DEPARTMENT.

PLANNING ASSISTANT, Grade V A.P.T. (£620-£670).

Applicants must be Associate Members of the Town Planning Institute. General experience in a Planning Department and skill in the preparation of estate layouts, and detailed planning proposals are essential.

University degree or qualifications in architecture, engineering or surveying an advantage.

Application forms from the County Planning Officer, County Hall, Hertford, to be returned by June 30th, 1954.

2842

THE CORPORATION OF GLASGOW.

ARCHITECTURAL AND PLANNING DEPARTMENT.

PLANNING ASSISTANTS.

Applicants are invited from Planning Assistants with general experience. Scale £490-£870 with placing according to age, qualifications and experience. Posts are superannuable, subject to medical examination. Form of application may be obtained from the Principal Administrative Officer, 20, Trongate, Glasgow, 1.

2842

A. G. JURY, City Architect and Planning Officer.

2832

PADDINGTON BOROUGH COUNCIL require ARCHITECTURAL ASSISTANT (APT V) (£650-£700 according to experience). Young architect of A.R.I.B.A. standard with practical experience in connection particularly with the design and supervision of good contemporary multi-storey housing work, and the ability to produce work speedily. Work will also include interesting schemes for other Council departments. Write age, qualifications, and details of past experience and training to Town Clerk (A.159), Paddington, W.2, by 14th June, 1954.

2828

MINISTRY OF WORKS, MANCHESTER.

TEMPORARY ARCHITECTURAL ASSISTANT required.

Salary range £410 to £655 p.a. Qualifications:—Minimum age 21 years. At least three years' Architectural training, plus experience in an Architect's office. Able to carry out working drawings from prepared sketch plans and elevations under supervision.

Apply to:—Establishment Officer, Ministry of Works, Warwick Road South, Manchester, 15.

2826

CITY OF MANCHESTER HOUSING DEPARTMENT.

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

ASSISTANT ARCHITECT—A.P.T. VII—£735-£810. (Applicants must be Registered Architects.)

ASSISTANT ARCHITECT—A.P.T. V—£520-£670. (Applicants must be Registered Architects.)

ASSISTANT ARCHITECT—A.P.T. IV—£580-£625.

ASSISTANT ARCHITECT—A.P.T. III—£550-£595.

Particulars of age, qualifications and experience should be forwarded to the Director of Housing, Town Hall, Manchester 2, to be received not later than 19th June, 1954. Canvassing strictly prohibited.

2844

HAMPSHIRE.

Applications are invited for the appointment of a TECHNICAL ASSISTANT in the County Planning Department on Grade III of the National Scales (£550-£595) to work in the Headquarters Office at Winchester. Candidates should have passed the Intermediate examination of the Town Planning Institute or of a related professional body and have had experience in the Planning Department of a Local Planning Authority. The appointment is pensionable and will be subject to a satisfactory medical report. In approved cases the County Council are prepared to assist newly appointed staff to meet removal and other expenses.

Applications, stating age, education, qualifications and experience, together with a copy of one testimonial and the names and addresses of two referees, should reach the County Planning Officer, Litton Lodge, Clifton Road, Winchester, by the 30th June.

2845

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE

OFFICE OF THE COUNTY ARCHITECT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS. Grades A.P.T. V, VI, VII and VIII. Salary ranges—£620-£670, £650-£710, £695-£760 and £735-£810 respectively. Applicants must be Registered Architects and Associate Members of the Royal Institute of British Architects and have had good training and adequate experience in the design and construction of modern buildings.

(b) ARCHITECTURAL ASSISTANTS. Grades A.P.T. III and IV. Salary ranges—£550-£595, and £580-£625 respectively. Applicants must be of good general training and preference will be given to those who have passed the Intermediate Examination of the R.I.B.A.

(c) JUNIOR ARCHITECTURAL ASSISTANTS. Grades A.P.T. I and II. Salary ranges—£490-£535 and £520-£565 respectively. Candidates should be good draughtsmen.

The appointments are subject to the provisions of the Local Government Superannuation Act, 1937, as amended by the W.R.C.C. (General Powers) Act, 1948, and the Conditions of Service in present operation by the County Council. The successful candidates will be required to pass a medical examination.

Applications, on forms obtainable at this office, should be delivered not later than the first post on Monday, 21st June, 1954.

HUBERT BENNETT, F.R.I.B.A.,
County Architect.

Bishopgarth, Westfield Road, Wakefield. 2846

CITY OF SHEFFIELD.
APPOINTMENT OF SENIOR ASSISTANT ARCHITECTS.

Applications are invited from suitably qualified Architects for appointments in the following grades on the staff of the City Architect, Mr. J. L. Womersley, A.R.I.B.A., A.M.T.P.I.

(a) A.P.T. VII—Salary £735-£810.

(b) A.P.T. VI—Salary £695-£760.

The posts, which are superannuable and subject to medical examination, are in the Education and General Section, which has an interesting and varied programme of Schools and other public buildings work.

Applications stating grade applied for, age, education and training, qualifications, present and past appointments (with dates and salaries), experience and the names of two referees should reach me by the 21st June, 1954.

JOHN HEYS,
Town Clerk.

Town Hall, Sheffield, 1. 2843

HACKNEY BOROUGH COUNCIL invite applications from Registered Architects for the appointment of an ASSISTANT ARCHITECT. Salary offered within A.P.T. Division, Grades V(a)-VI (£650-£760 per annum), plus London weighting allowance.

Preference will be given to candidates with experience in the design and construction of Municipal housing schemes and public buildings. Apply to Town Clerk, Town Hall, Hackney, E.8, for application form. 2735

BEDFORDSHIRE COUNTY COUNCIL.

ASSISTANT ARCHITECTS.

Applications are invited for established posts on the following grades:—

(a) APT IV (salary £580 to £625).

Intermediate R.I.B.A. preferred.

(b) APT II (salary £520 to £565).

Application forms can be obtained from the County Architect, Shire Hall, Bedford, to whom they are to be returned not later than 17th June, 1954. 2841

Architectural Appointments Vacant

4 lines or under, 7s. 6d.; each additional line, 2s.

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

BOX 2514.—Advertiser thanks all applicants. Position now filled. 2789

SENIOR AND JUNIOR ARCHITECTURAL ASSISTANTS and Draughtsmen or women required in busy office in the Home Counties. Some experience essential. Large varied practice. Please state experience and salary required. Box 2137.

A SENIOR ARCHITECTURAL ASSISTANT required, full experience in preparation of Working Drawings, Details, and supervision of office and Industrial Buildings in the London Area. Good knowledge of construction and design essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Box 9829.

SENIOR ARCHITECTURAL ASSISTANT required. Must have good experience of organisation and administration of jobs, drawing office and staff, also good practical experience essential. Apply in writing giving full particulars of qualifications, age, experience and salary required to Sir Giles Scott, Son & Partner, 3, Field Court, Gray's Inn, W.C.1. 2798

CO-OPERATIVE WHOLESALE SOCIETY, LTD.,

ARCHITECT'S DEPARTMENT, LONDON.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECTS, of Intermediate and Final R.I.B.A. standard (salary range: £320-£680 per annum, according to age and experience), for work on varied and interesting projects.

(b) SHOPFITTING DRAUGHTSMAN. Applicants should have wide experience in store planning and design.

The appointments are permanent and pensionable, and offer prospects of up-grading. Applications, stating age, experience, qualifications and salary required, to W. J. Reed, F.R.I.B.A., Chief Architect, Co-operative Wholesale Society, Ltd., 99, Leman Street, London, E.1. 2754

ARCHITECTURAL ASSISTANT required in Old Established expanding busy country practice. Office experience essential. £500 p.a. or according to ability. Write Box 2858.

ARCHITECTURAL ASSISTANT required in Croydon office; intermediate standard, good draughtsman, previous experience essential. Full details and salary required. Box 2857.

SENIOR ARCHITECTURAL ASSISTANTS required at once for busy London office. Experienced and capable of taking responsibility. Salary £800-£900 or according to ability. Full details to Box 2855.

JUNIOR ASSISTANTS urgently required. Good draughtsmen with some experience. Excellent prospects in busy office. Salary by arrangement. Write fully to Bowden Son and Partners, 3, Adelaide Terrace, London, N.1. 2856

YOUTH required for private Architect's office in Sevenoaks, who is keen to become an ARCHITECTURAL DRAUGHTSMAN. Working hours adjusted to allow time for attending evening classes. Box 2853.

JUNIOR ARCHITECTURAL ASSISTANT required in private Architect's office in Sevenoaks. Box 2854.

QUALIFIED ASSISTANT ARCHITECTS and/or SURVEYORS (BUILDING) required for Bristol office with extensive and varied practice. Also Intermediate R.I.B.A. or R.I.C.S. (Building) assistants required. Write giving full particulars of experience and salary required to W. H. Watkins, Gray, F.R.I.B.A. and Partners, 1, Clare Street, Bristol, 1. 2852

ASSISTANT urgently required for busy and varied practice Hampstead Heath area. Intermediate Standard, contemporary outlook preferred. Please apply by letter giving age, experience, salary required and date when free to Box 2851.

ASSISTANT required: Qualified or approaching final and with experience. Immediate requirement is for large scale and interesting work. Watson, Johnson, Stokes, Victoria Square, Birmingham. 2850

WANTED for London, competent ASSISTANT. Good draughtsman. Box 2849.

SENIOR ARCHITECTURAL ASSISTANT required by multiple company in London. Full experience of surveys, working drawings, detailing and supervision of jobs. 5-day week, canteen facilities. Permanent and pensionable post. Apply in writing stating age, qualifications, salary required and experience to Box 2848.

ARCHITECTURAL ASSISTANT, with 3 to 5 years' experience, required immediately. 5-day week. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1, giving particulars of age, qualifications, experience, and salary required. 2776

ARCHITECTURAL ASSISTANT between Inter. and Final standard, required in Reading office of Chartered Architects. Applicant must be capable of preparing working drawings, details and specifications. Salary £450 to £500. All details to Box 2618.

ECCLESIASTICAL ARCHITECT has vacancy for an ASSISTANT of Intermediate Standard for who would be interested in old and new church work. Lawrence H. Bond, 11, Elmer Street, Grantham, Lincs. 2650

ARCHITECTURAL ASSISTANTS required, up to Intermediate standard, and also one required up to Final standard. Considerable variety of work. Reply stating age, experience, and salary required, to Graham Crump & Denis Crump, F.A.R.I.B.A., 43, George Street, Croydon, Surrey. 2711

ASSISTANT required, with experience of specifications, sub-contracts, final accounts, materials and specialists' fittings. Also knowledge of construction and draughtsmanship. Write to Messrs. J. M. Sheppard & Partners, 38, Bedford Place, W.C.1 giving particulars of age, experience, and salary required. 2696

ARCHITECTURAL ASSISTANTS, Senior and Intermediate standard, required for busy Birmingham office. Apply, stating full details of experience and salary required, Box 2713.

ARCHITECTURAL DRAUGHTSMEN required, preferably with experience in precast concrete and reconstructed stone. Superannuation Scheme. Apply in confidence, with details of previous experience and copies of references to: Deputy Managing Director, The Croft Granite, Brick and Concrete Co., Ltd., Croft, Leics. 2731

VACANCY FOR ARCHITECTS' ASSISTANT.

ARCHITECTS' ASSISTANT (male) required in London office. Interesting and varied practice, including housing, licensed premises, hospital, factory and laboratory works. Several years office experience, with R.I.B.A. Intermediate, essential minimum qualifications.

Five-day week. Salary £546, per annum, with staff profit sharing scheme in addition. Applications by letter only, giving particulars of training and experience to: Stewart & Hendry, F./F.R.I.B.A., A.M.T.P.I., 90, Fenchurch Street, London, E.C.3. 2726

ARCHITECTURAL ASSISTANT required immediately for busy country practice. Intermediate Standard desirable. Salary by arrangement. Smith-Woolley and Partners, Collingham (303), Newark, Notts. 2727

ARCHITECT'S SENIOR ASSISTANT required for busy West Riding office, principally Schools, Brewery and Housing Schemes. Apply by letter, giving details of Age, Qualifications, Experience, Salary required and when available, to Box 2756.

ARCHITECTURAL ASSISTANT required immediately, inter-final standard. Interesting and varied work including schools, hotels and housing. Apply stating experience and salary required, to Ruddle and Wilkinson, Architects, Long Causeway Chambers, Peterborough. Telephone No. Peterborough 5248/9. 2757

SENIOR & JUNIOR ARCHITECTURAL ASSISTANTS required immediately. Good salary to suitable applicants. Travelling expenses paid to applicants selected for interview. Full particulars to W. S. Hattrell & Partners, 1, Queen's Road, Coventry. 2761

ARCHITECTURAL ASSISTANT required, intermediate standard, for small Architect's Practice, in either the London or St. Albans office. Experience in housing or industrial work desirable, but not essential. Should be good draughtsman with knowledge of contemporary design and construction. Write stating age, experience and salary required to Box 2763.

EXPERIENCED ASSISTANT required immediately. Should be quick, accurate draughtsman with sound knowledge of construction and detailing. Please write giving full particulars and salary required to Box 2620.

BIRMINGHAM office, busy on contemporary design Schools, Ecclesiastical and Industrial projects, require ASSISTANT, qualified or good Intermediate. Salary according to experience. Please reply, giving details of age, experience, and when free, to Box 2833.

GOOD salary offered to keen architectural ASSISTANT of intermediate standard; small office in North London area; must be good draughtsman and have good general experience in a private office. Reply with brief details of experience, age, etc., to Box 2831.

ARCHITECTURAL ASSISTANT for housing and 3-Storey Flats, Traditional and Non-Traditional. State age, experience, etc. Apply—George Wimpey & Co. Ltd., 629, Eccles New Road, Salford, 5. 2833

ARCHITECTURAL ASSISTANTS required. Applicants should have completed their National Service and have had at least one year's office experience. Apply in writing, stating age, training and experience to the Chief Staff Architect, Iford Limited, Romford, Essex. 2839

ARCHITECT'S ASSISTANT of Inter. Standard required in small London Office to take charge of small and medium contracts. Reply with full particulars and salary required to Box 2840.

REQUIRED for Architects' office, Central London area, young qualified ASSISTANTS interested in design and construction. Write, stating experience and salary required. Box 2325.

REEMA CONSTRUCTION, LTD., Milford Manor, Salisbury, require:—

(1) Young ARCHITECT to train for development work in the Reema system of construction. £500 per annum minimum.

(2) Competent DRAUGHTSMEN, with sound experience in the detailing of buildings. £450 to £500 per annum. 2788

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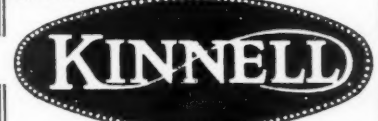
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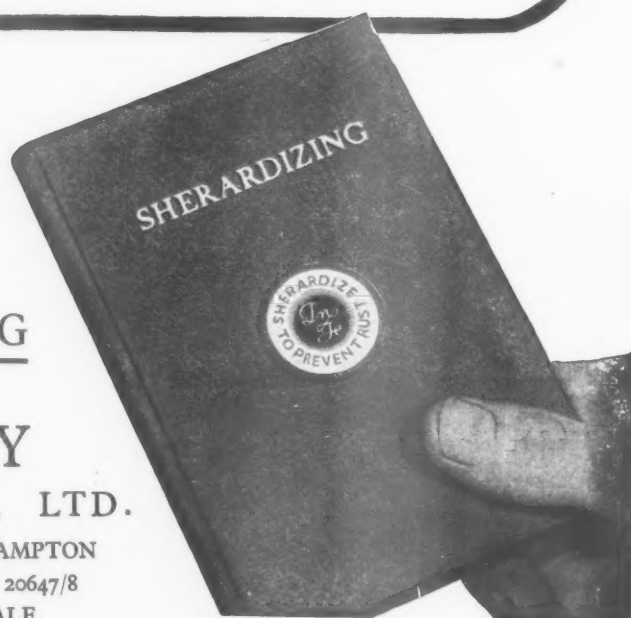
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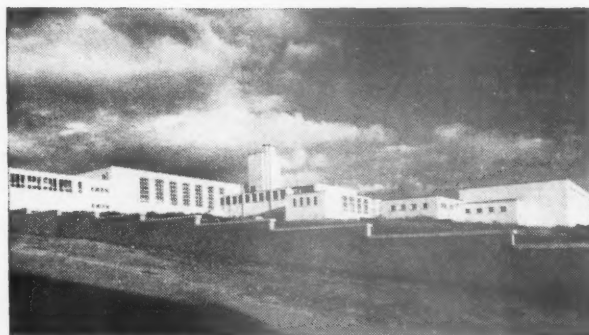
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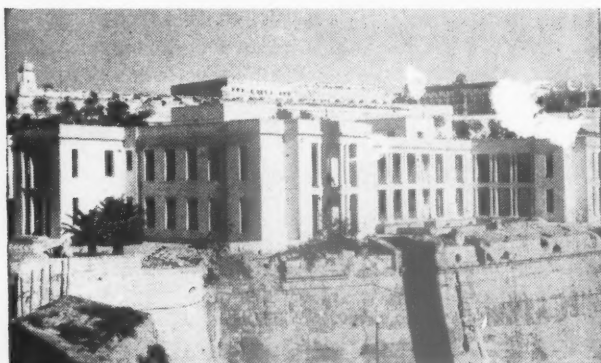


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