

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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CURRENT BUILDING

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Details of Planning, Construction,

Finishes and Costs

Buildings in the News

Building Costs Analysed

Architectural Appointments

Wanted and Vacant

No. 3433]

[Vol. 133

THE ARCHITECTURAL PRESS

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

ILA	Institute of Landscape Architects. 1, Park Crescent, W.1.	Museum 3473
I of Arb	Institute of Arbitrators. Hastings House, 10, Norfolk Street, W.C.2.	Temple Bar 4071
IOB	Institute of Builders. 48, Bedford Square, W.C.1.	Museum 7197
IQS	Institute of Quantity Surveyors. 98, Gloucester Place, W.1.	Welbeck 1859
IR	Institute of Refrigeration. Dalmeny House, Monument Street, E.C.3.	Avenue 6851
IRA	Institute of Registered Architects. 68, Gloucester Place, W.1.	Hunter 1945
ISE	Institution of Structural Engineers. 11, Upper Belgrave Street, S.W.1.	Sloane 7128
JFRO	Joint Fire Research Organisation (DSIR & Fire Offices' Committee).	
	Fire Research Station, Boreham Wood, Herts.	Elstree 1341/1797
LDA	Lead Development Association. 18, Adam Street, W.C.2.	Whitehall 4175
LMBA	London Master Builders' Association. 47, Bedford Square, W.C.1.	Museum 3891
MAFF	Ministry of Agriculture, Fisheries and Food. Whitehall Place, S.W.1.	Trafalgar 7711
MOE	Ministry of Education. Curzon Street House, W.1.	Hyde Park 7070
MOH	Ministry of Health. 23, Savile Row, W.1.	Regent 8411
MOHLG	Ministry of Housing and Local Government. Whitehall, S.W.1.	Whitehall 4300
MOLNS	Ministry of Labour and National Service, 8, St. James's Square, S.W.1.	Whitehall 6200
MOS	Ministry of Supply. Shell-Mex House, W.C.2.	Gerrard 6933
MOT	Ministry of Transport, Berkeley Square House, W.1.	Mayfair 9494
MOW	Ministry of Works. Lambeth Bridge House, S.E.1.	Reliance 7611
NAMMC	Natural Asphalte Mine Owners and Manufacturers Council.	
	14, Howick Place, Victoria Street, S.W.1.	Victoria 1600 & 6477
NAS	National Association of Shopfitters. 2, Caxton Street, S.W.1.	Abbey 4813
NBR	National Buildings Record. 31, Chester Terrace, N.W.1.	Welbeck 0619
NCBMP	National Council of Building Material Producers. 10, Storey's Gate, S.W.1.	Abbey 5111
NEFMAI	National Employers Federation of the Mastic Asphalt Industry.	
	21, John Adam Street, Adelphi, W.C.2.	Trafalgar 3927
NFBTE	National Federation of Building Trades Employers.	
	82, New Cavendish Street, W.1.	Langham 4041/4054
NFBTO	National Federation of Building Trades Operatives.	
	Federal House, Cedars Road, Clapham, S.W.4.	Macaulay 4459
NFHS	National Federation of Housing Societies. 12, Suffolk St., S.W.1.	Whitehall 1631
NHBRC	National House Builders Registration Council. 58, Portland Place, W.1.	Langham 0064/5
NPL	National Physical Laboratory. Head Office, Teddington.	Teddington Lock 3222
NRDB	Natural Rubber Development Board. Market Buildings, Mark Lane, E.C.3.	Mansion House 9383
NSAS	National Smoke Abatement Society. Palace Chambers,	
	Bridge Street, S.W.1.	Trafalgar 6838
NT	National Trust. 42, Queen Anne's Gate, S.W.1.	Whitehall 0211
PEP	Political and Economic Planning. 16, Queen Anna's Gate, S.W.1.	Whitehall 7245
RCA	Reinforced Concrete Association. 94, Petty France, S.W.1.	Abbey 4504
RIAS	Royal Incorporation of Architects in Scotland. 15, Rutland Square, Edinburgh.	
	Fountainbridge 7631	
RIB	Rural Industries Bureau. 35, Camp Road, S.W.19.	Wimbledon 5101
RIBA	Royal Institute of British Architects. 66, Portland Place, W.1.	Langham 5533
RICS	Royal Institution of Chartered Surveyors. 12, Great George Street, S.W.1.	Whitehall 5322/9245
RFAC	Royal Fine Art Commission. 5, Old Palace Yard, S.W.1.	Whitehall 3935
RS	Royal Society. Burlington House, Piccadilly, W.1.	Regent 3335
RSA	Royal Society of Arts. 6, John Adam Street, W.C.2.	Trafalgar 2366
RSH	Royal Society of Health. 90, Buckingham Palace Road, S.W.1.	Sloane 5134
SBPM	Society of British Paint Manufacturers. Grosvenor Gardens House,	
	Grosvenor Gardens, S.W.1.	Victoria 2186
SE	Society of Engineers. 17, Victoria Street, S.W.1.	Abbey 7244
SFMA	School Furniture Manufacturers' Association. 30, Cornhill, E.C.3.	Mansion House 3921
SIA	Society of Industrial Artists. 7, Woburn Square, W.C.1.	Langham 1984/5
SIA	Structural Insulation Association. 32, Queen Anne Street, W.1.	Langham 7616
SNHTPC	Scottish National Housing. Town Planning Council.	
	Hon. Sec., Robert Pollock, Town Clerk, Rutherglen.	
SPAB	Society for the Protection of Ancient Buildings.	
	55, Great Ormond Street, W.C.1.	Holborn 2646
TCPA	Town and Country Planning Association.	
	28, King Street, Covent Garden, W.C.2.	Temple Bar 5006
TDA	Timber Development Association. 21, College Hill, E.C.4.	City 4771
TPI	Town Planning Institute. 18, Ashley Place, S.W.1.	Victoria 8815
TTF	Timber Trades Federation. 75, Cannon Street, E.C.4.	City 5040
WDC	War Damage Commission. 6, Carlton House Terrace, S.W.1.	Whitehall 4341
ZDA	Zinc Development Association. 34, Berkeley Square, W.1.	Grosvenor 6636

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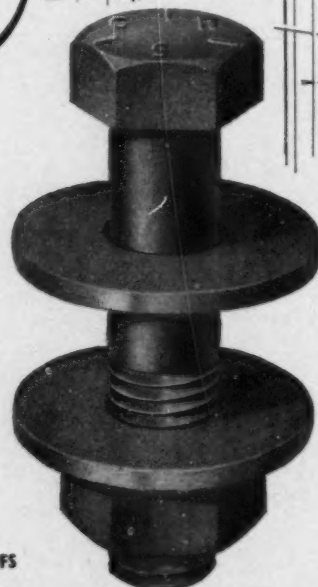


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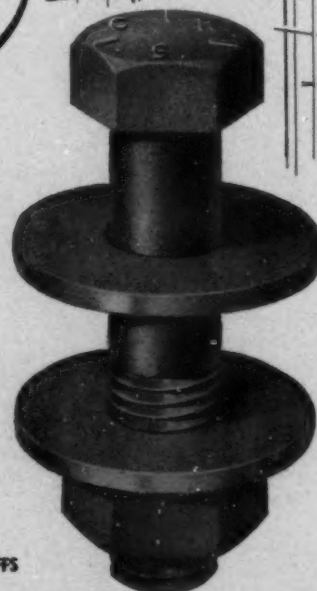


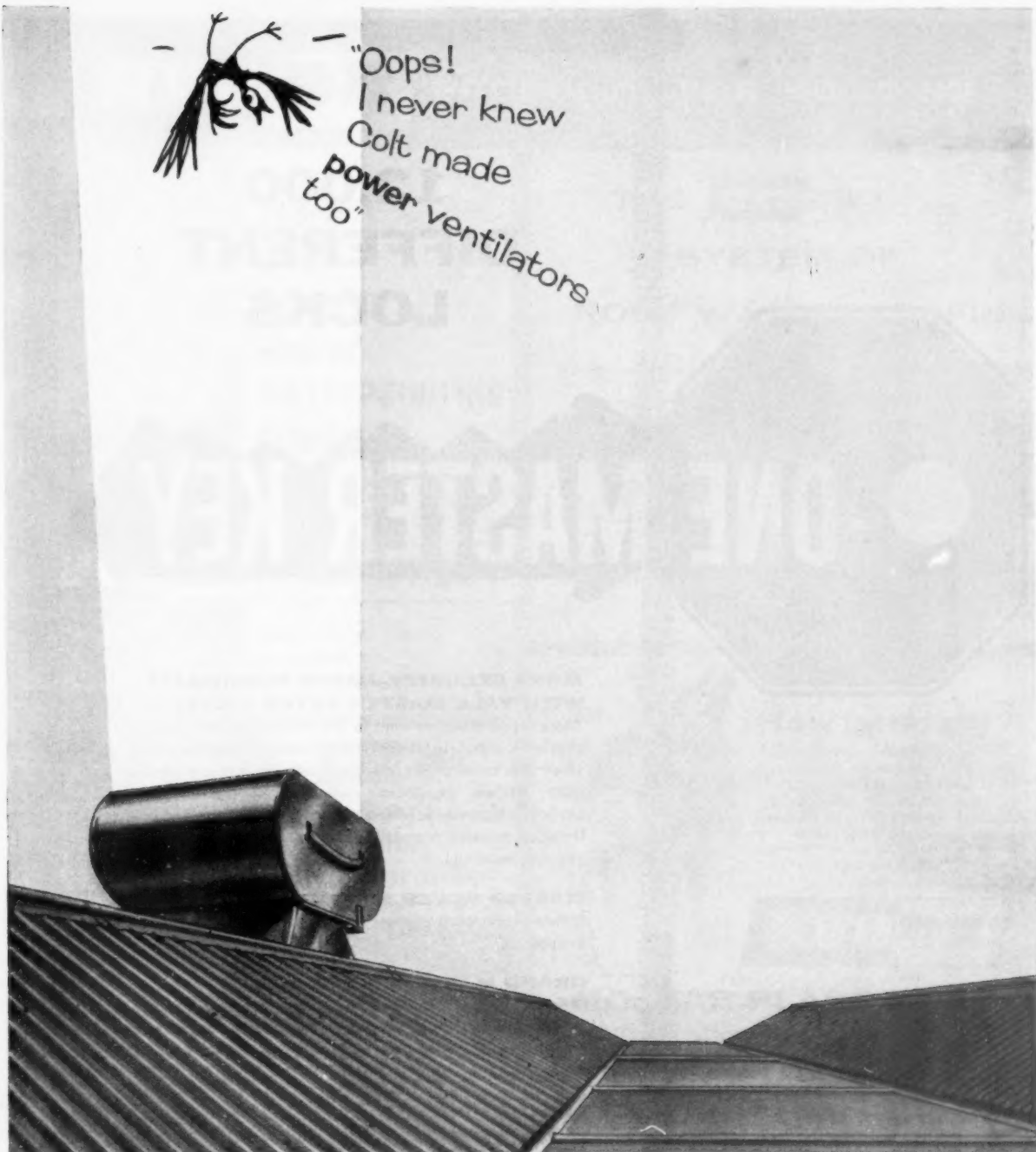
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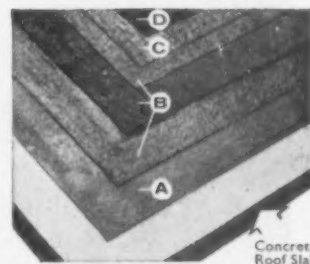
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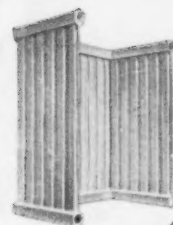


This is a *Stelrad*

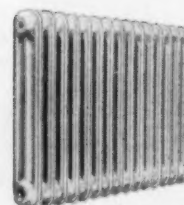
**the Radiator
that's made
in the size
you want,
and in the
shape your
client likes**



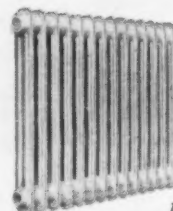
Double Wall



Angle-Wall



3-Column



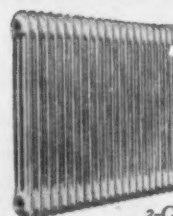
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Now who would have thought the Stelrad Steel Radiator had been with us for nigh on twenty-five years?

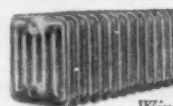
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2-Column

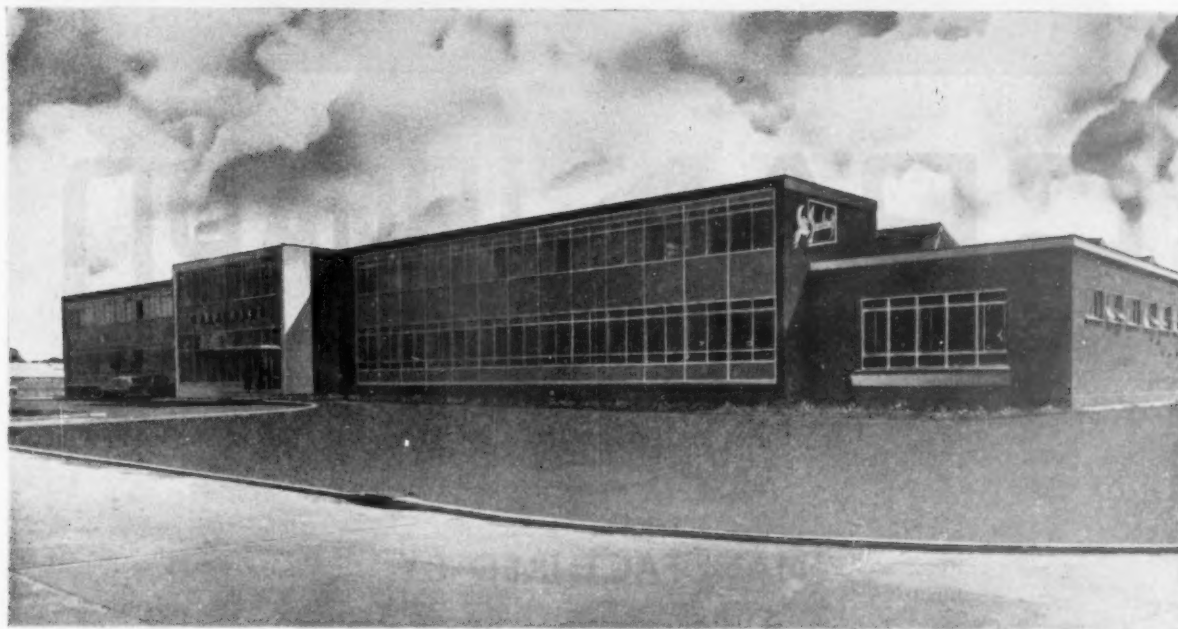


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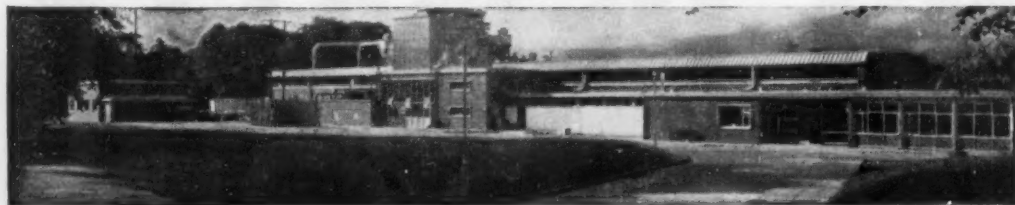
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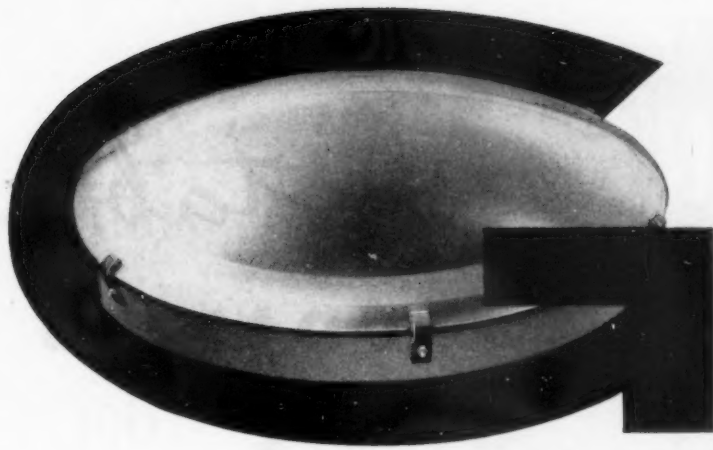
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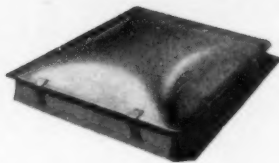
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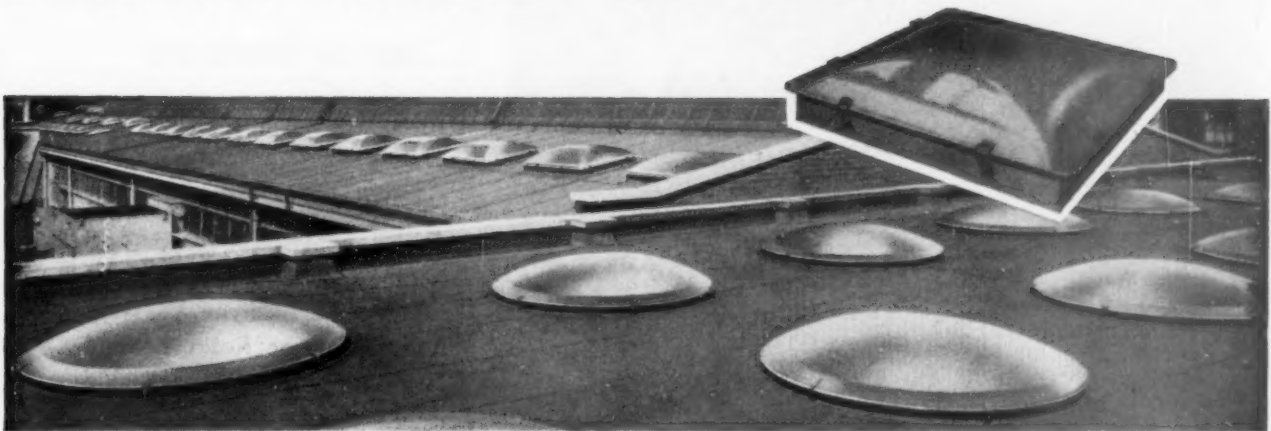
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- pass ample light
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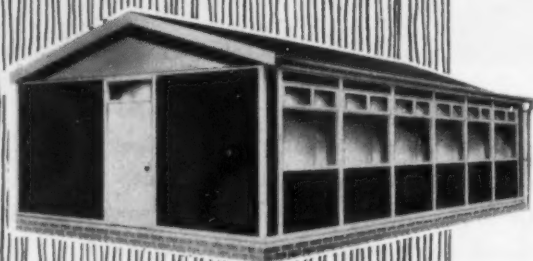
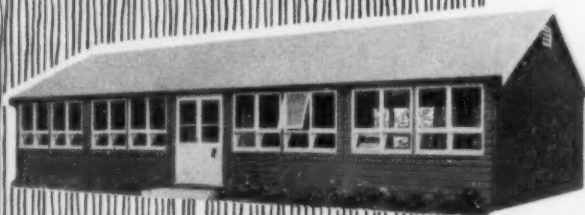
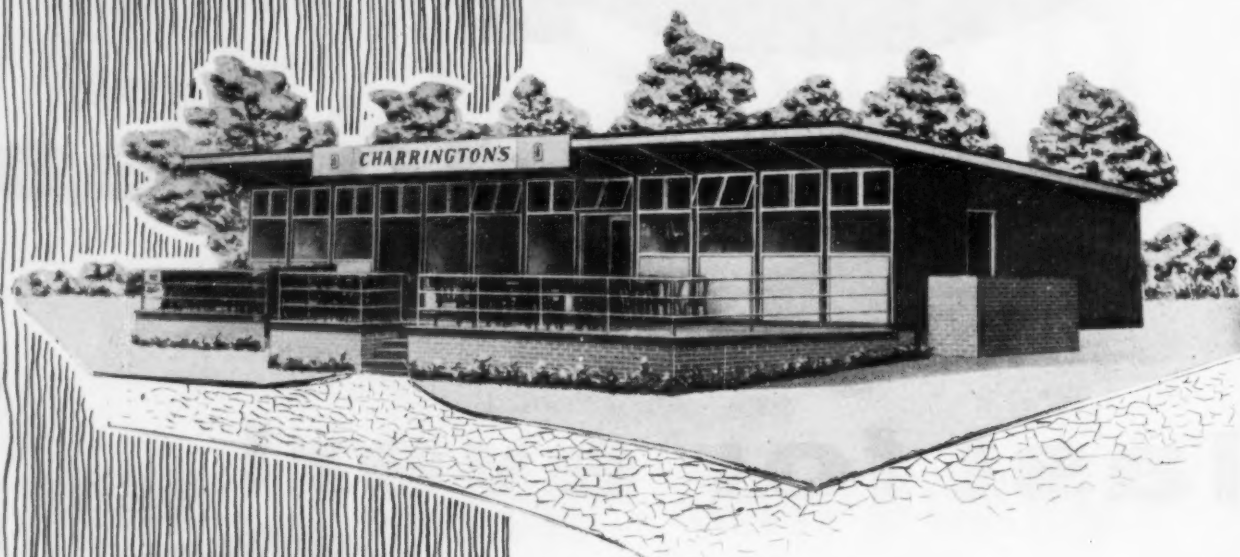
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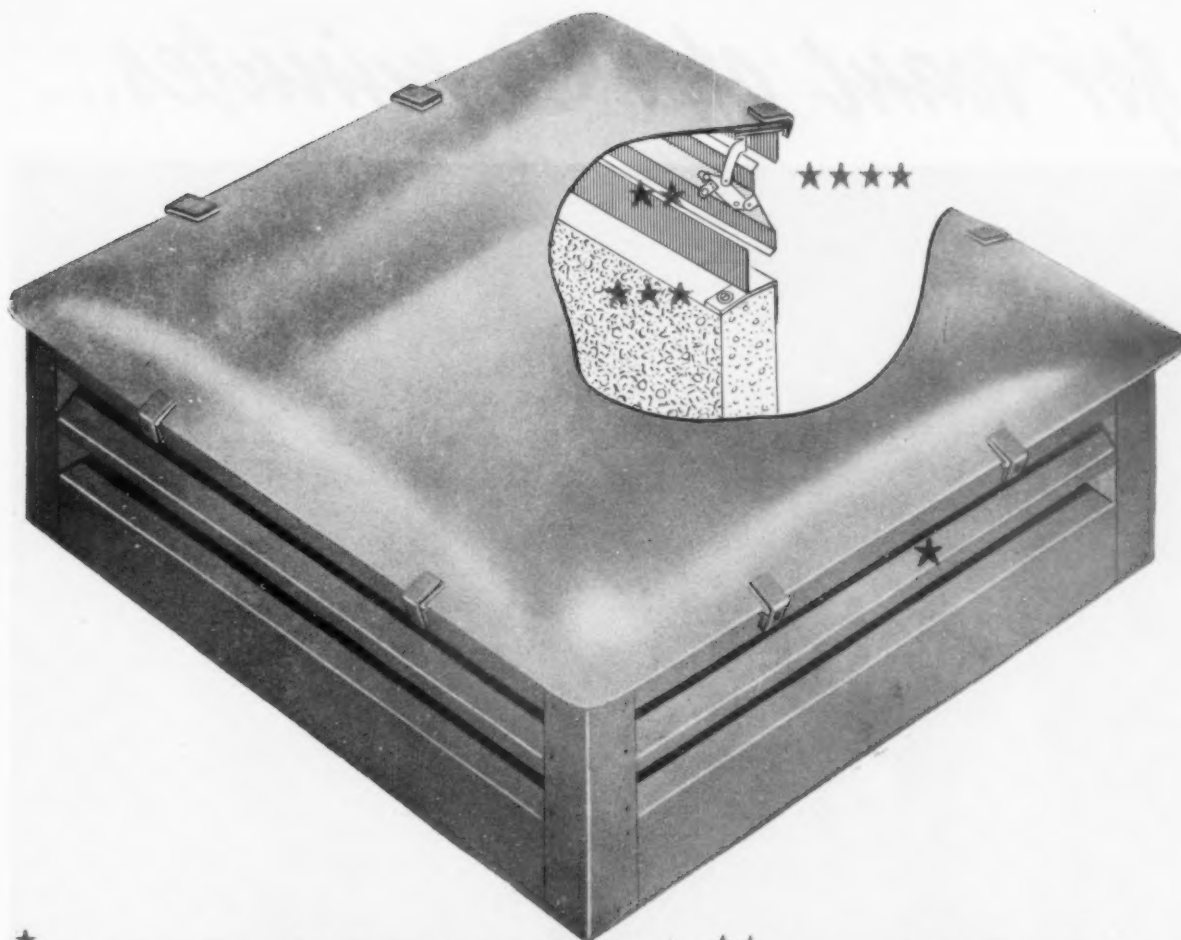


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 ★★★ **GREATER SECURITY** ★★★ **FULLY OPEN-FULLY WEATHERED**

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to day!*



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ESTABLISHED 1879

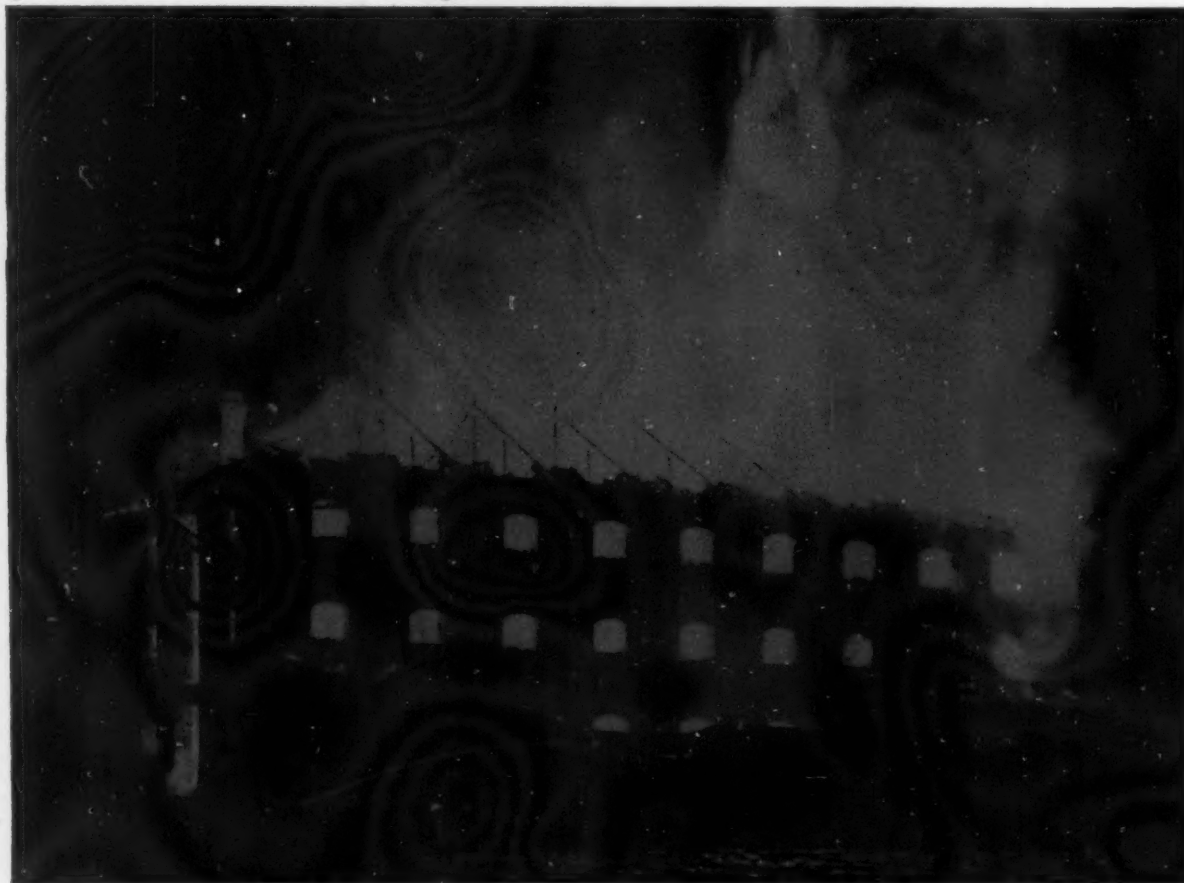
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GV17

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limits the Fire Hazard

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This is the tale of Cedric Potter

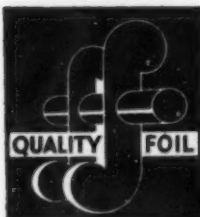
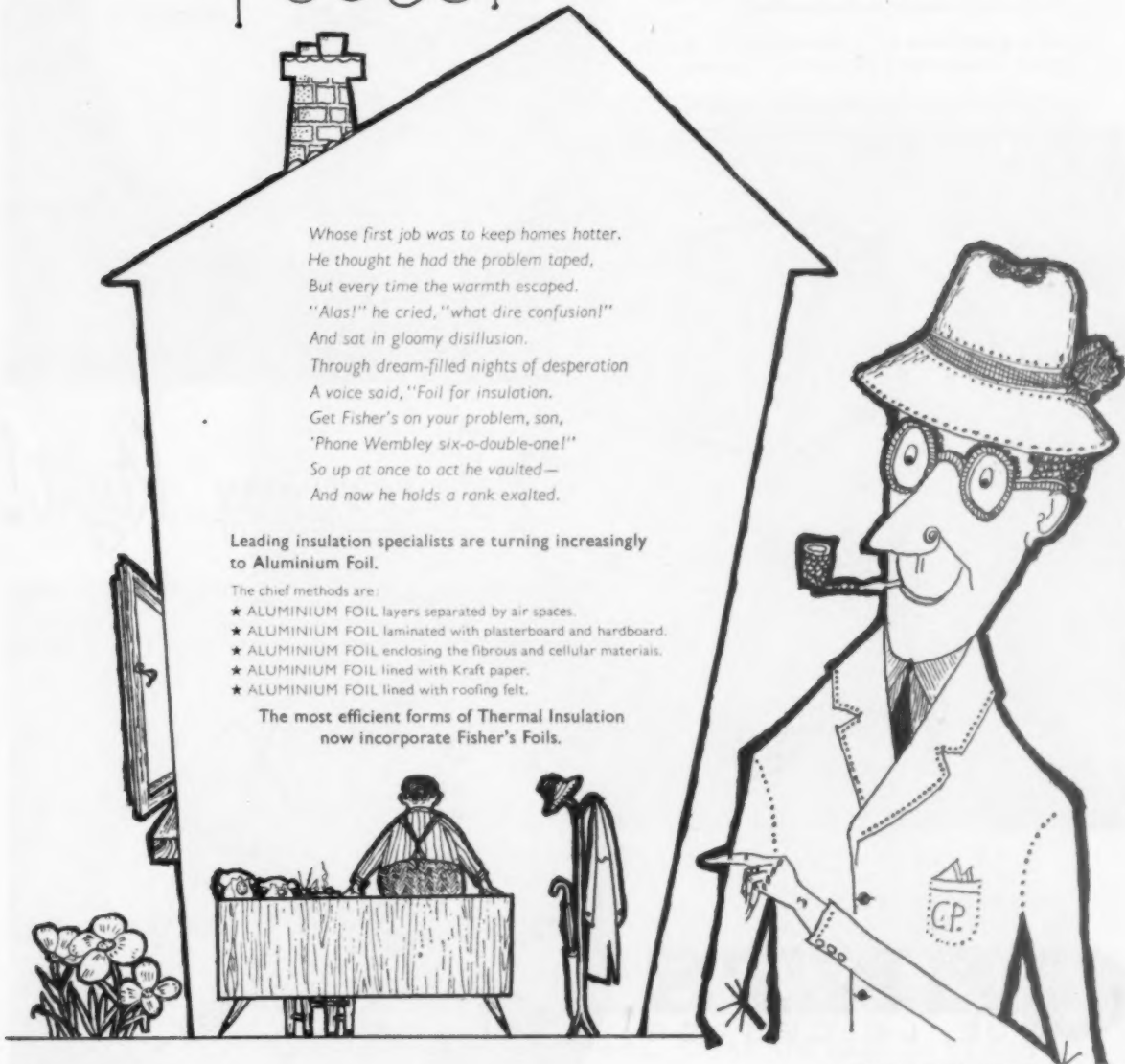
Whose first job was to keep homes hotter.
He thought he had the problem taped,
But every time the warmth escaped.
"Alas!" he cried, "what dire confusion!"
And sat in gloomy disillusion.
Through dream-filled nights of desperation
A voice said, "Foil for insulation.
Get Fisher's on your problem, son,
'Phone Wembley six-o-double-one!"
So up at once to act he vaulted—
And now he holds a rank exalted.

Leading insulation specialists are turning increasingly
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The chief methods are:

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- ★ ALUMINIUM FOIL enclosing the fibrous and cellular materials.
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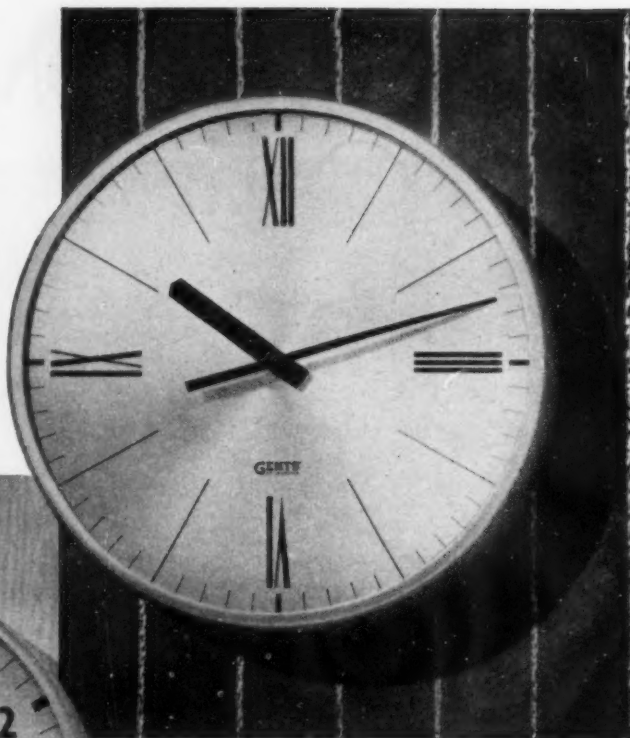


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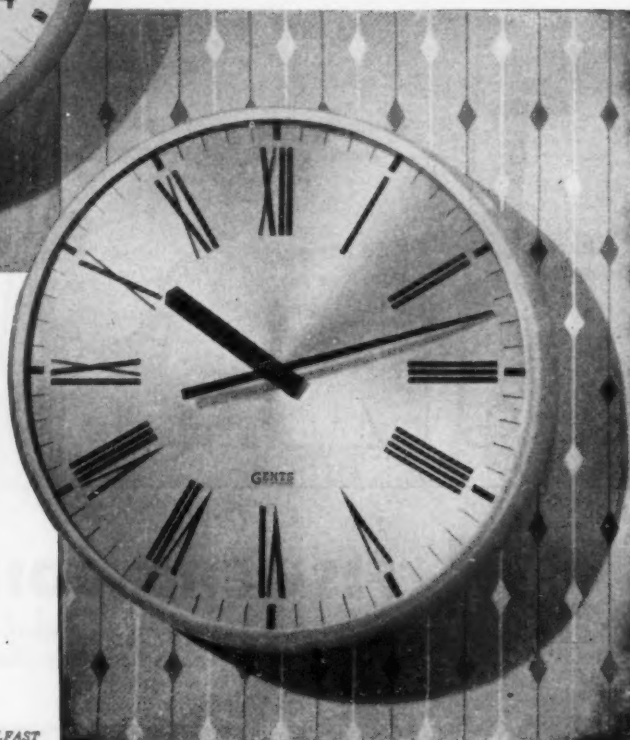
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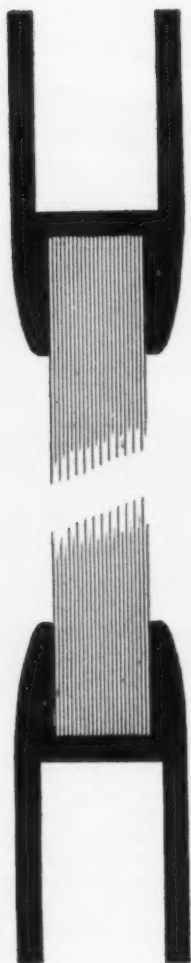
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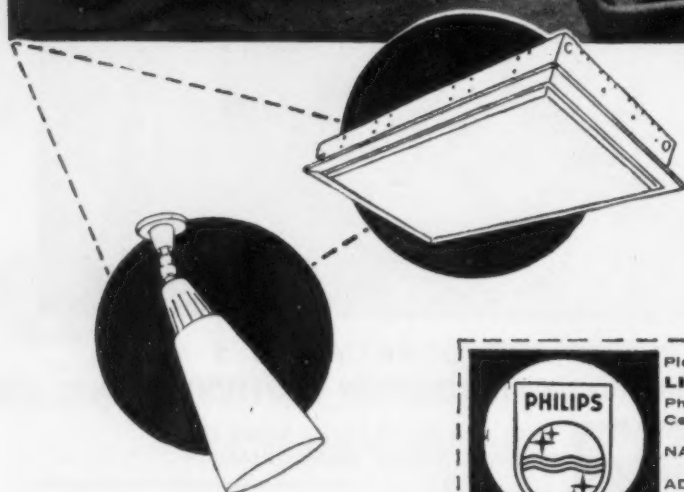
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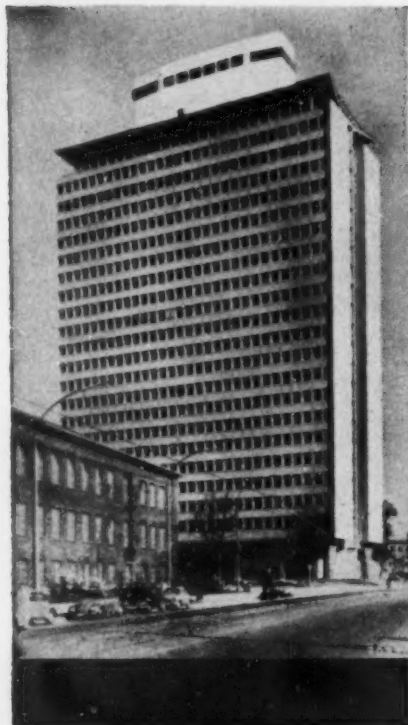
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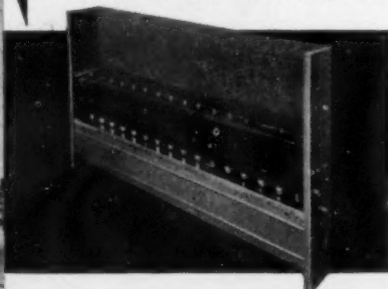
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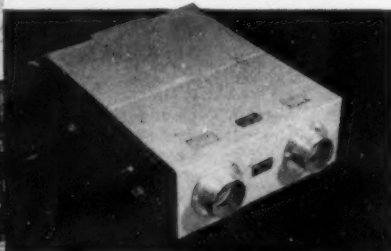
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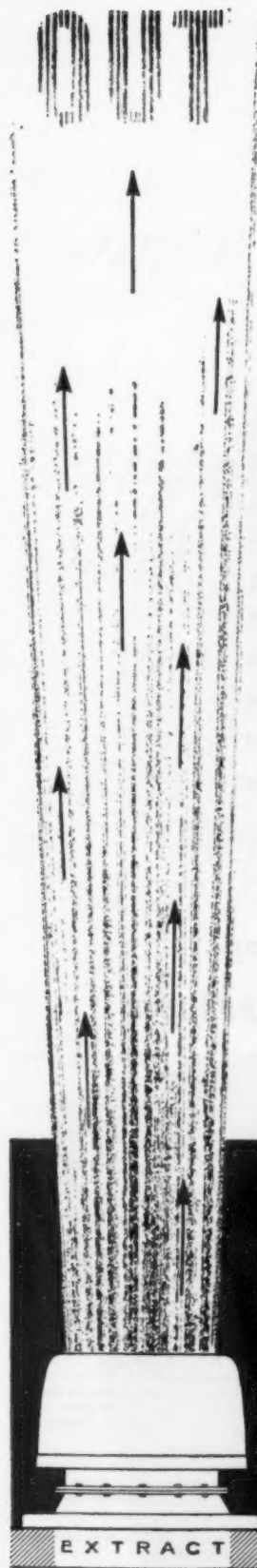
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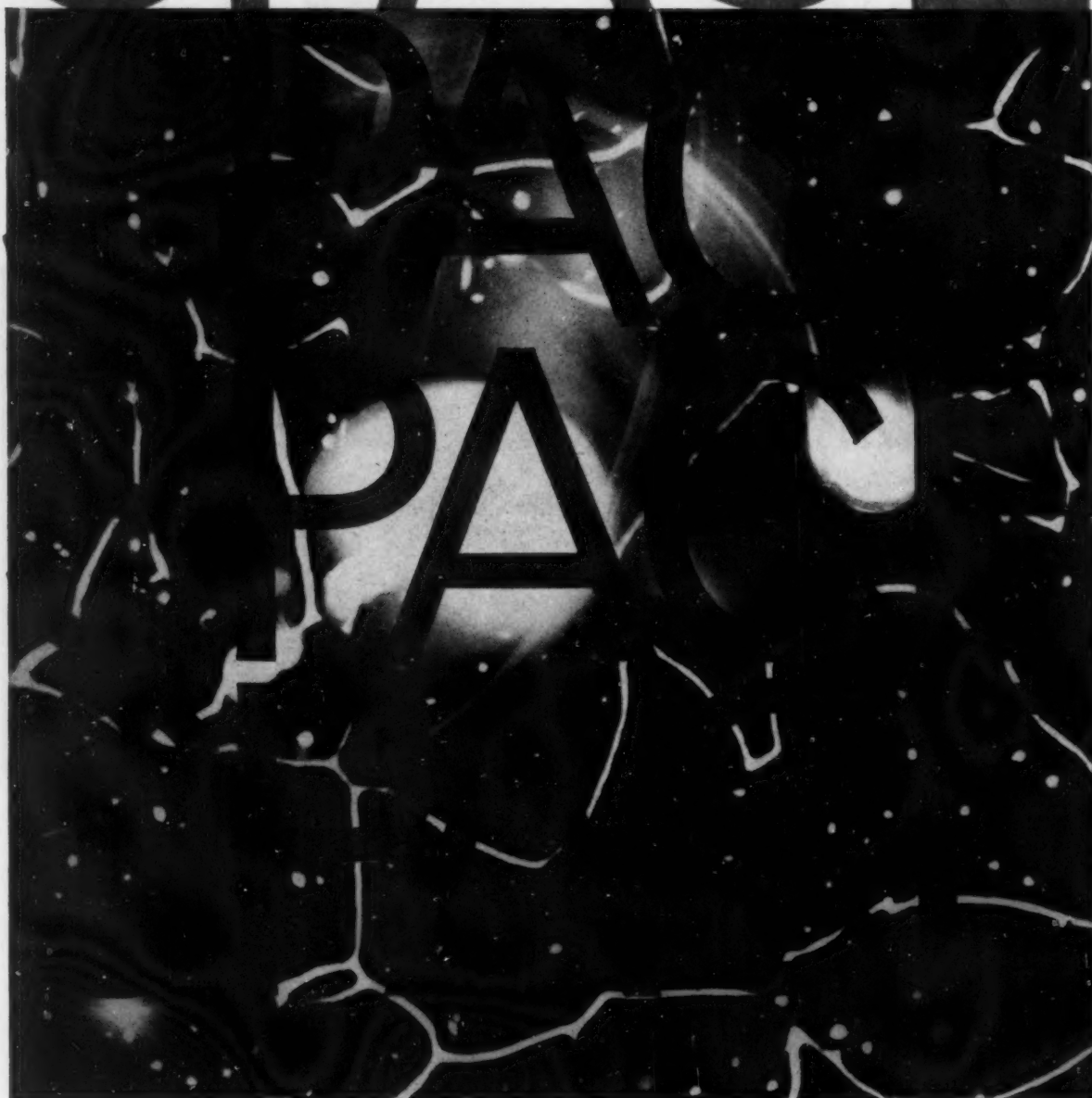
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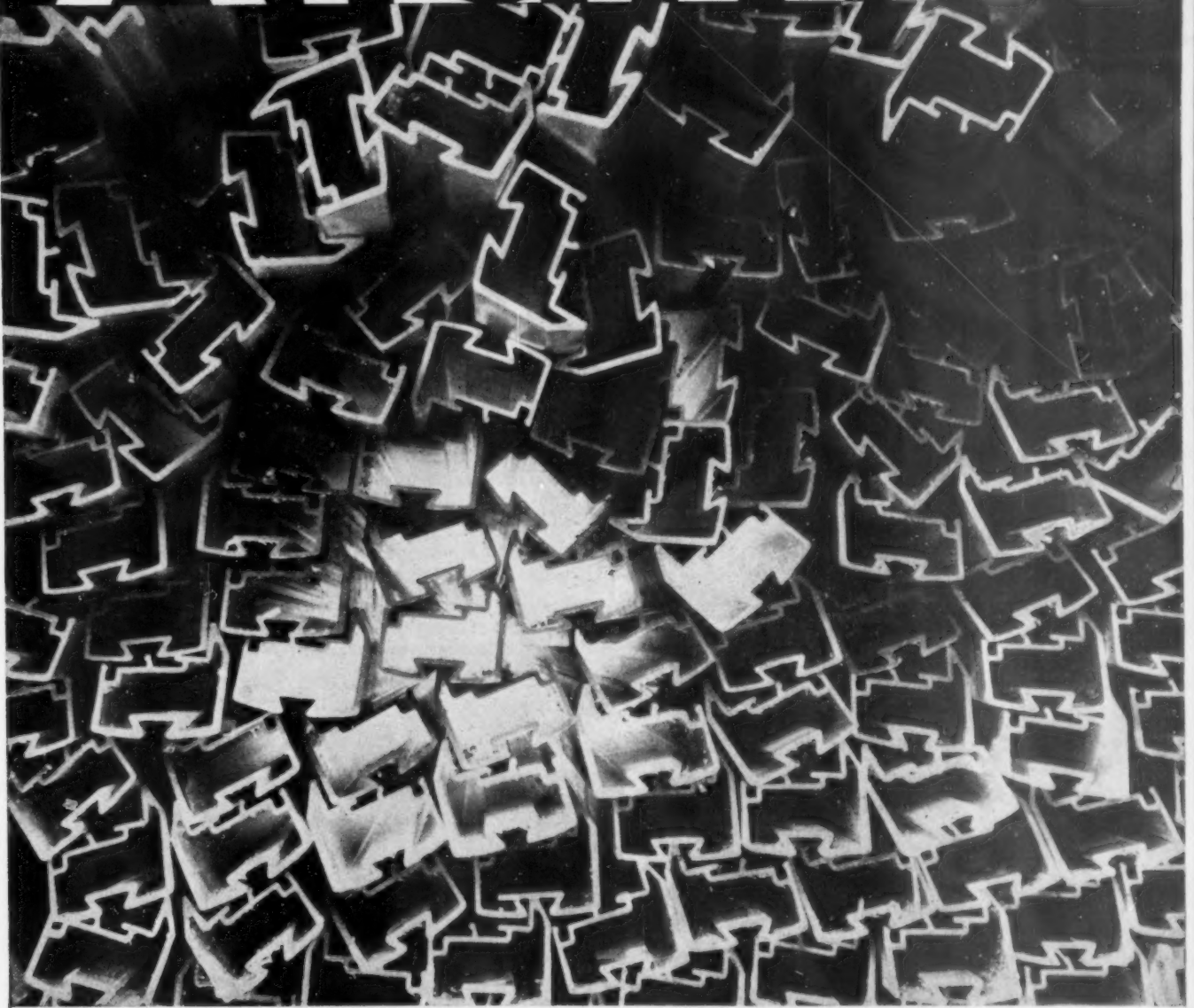
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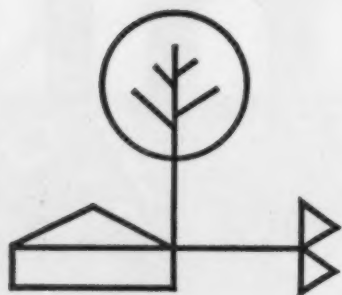


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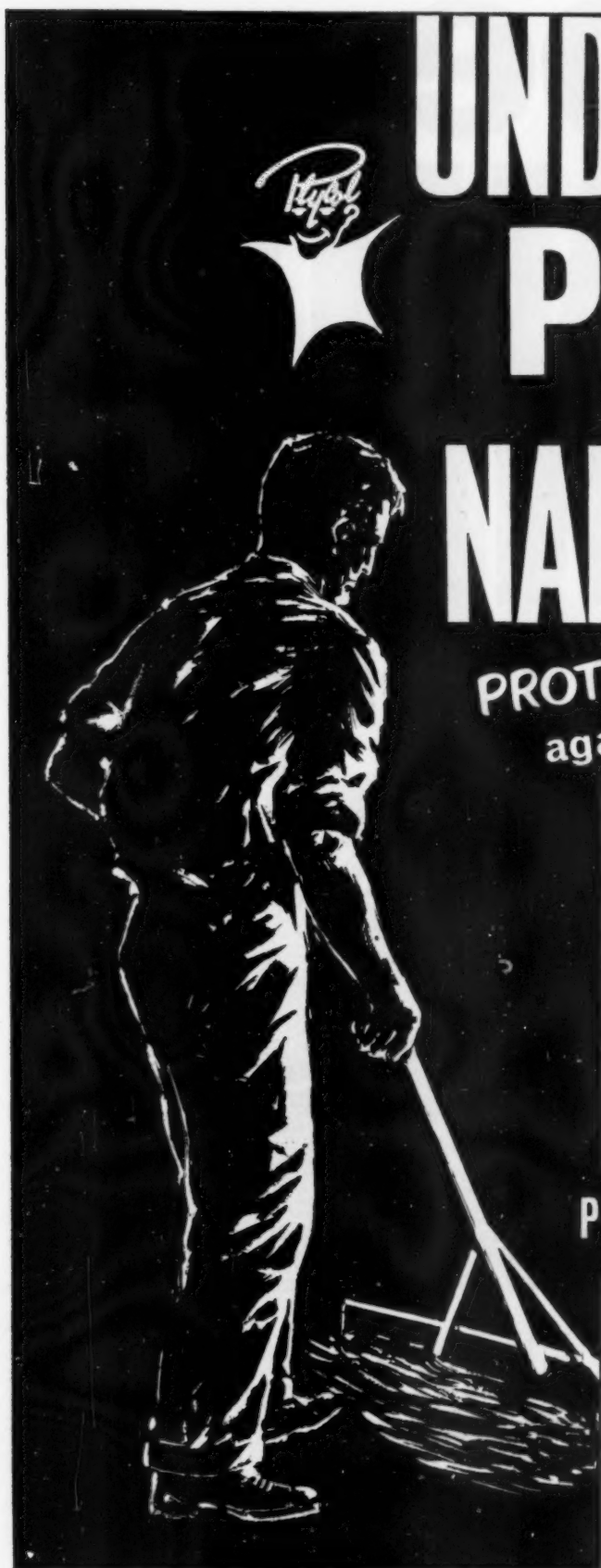
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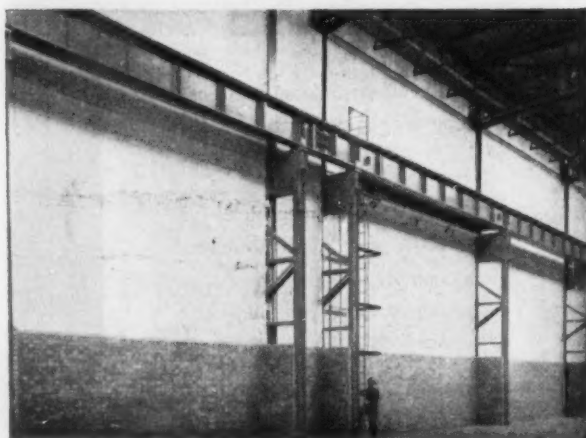
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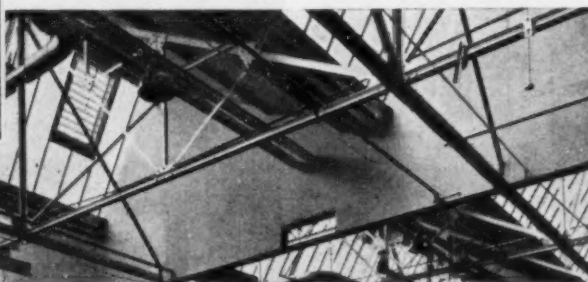
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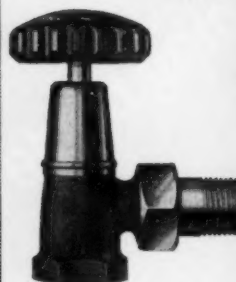
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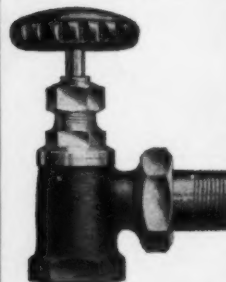
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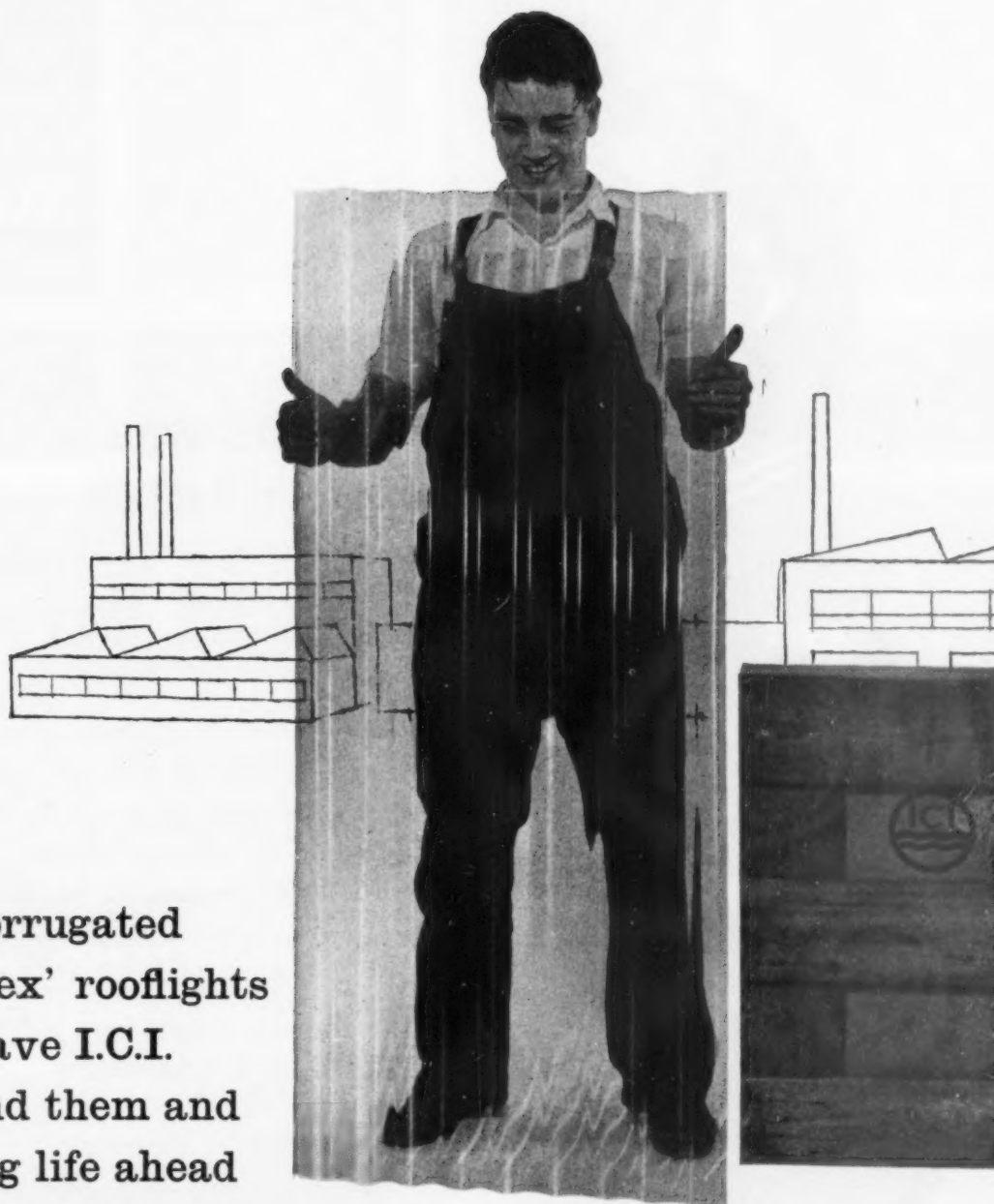
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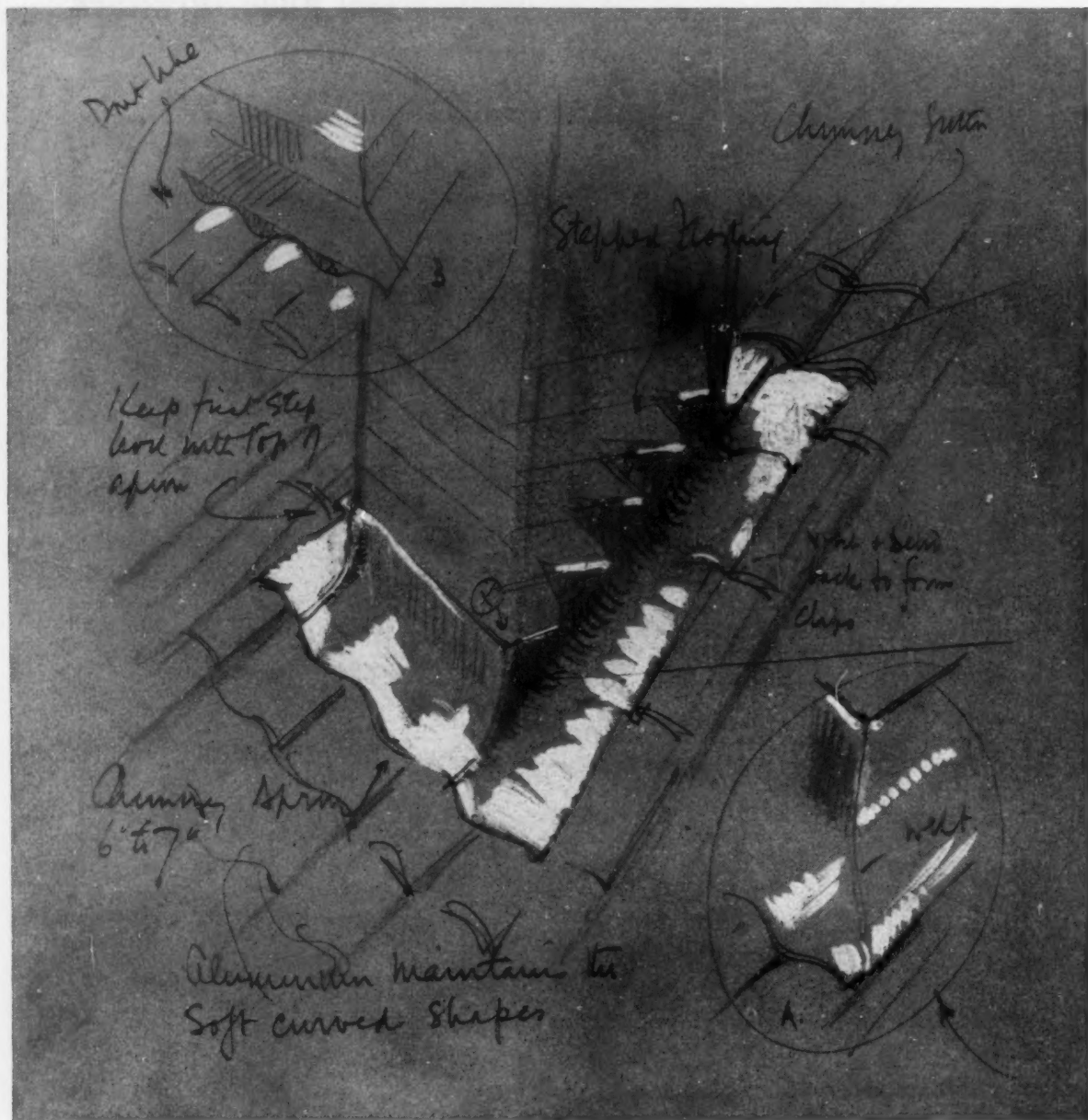
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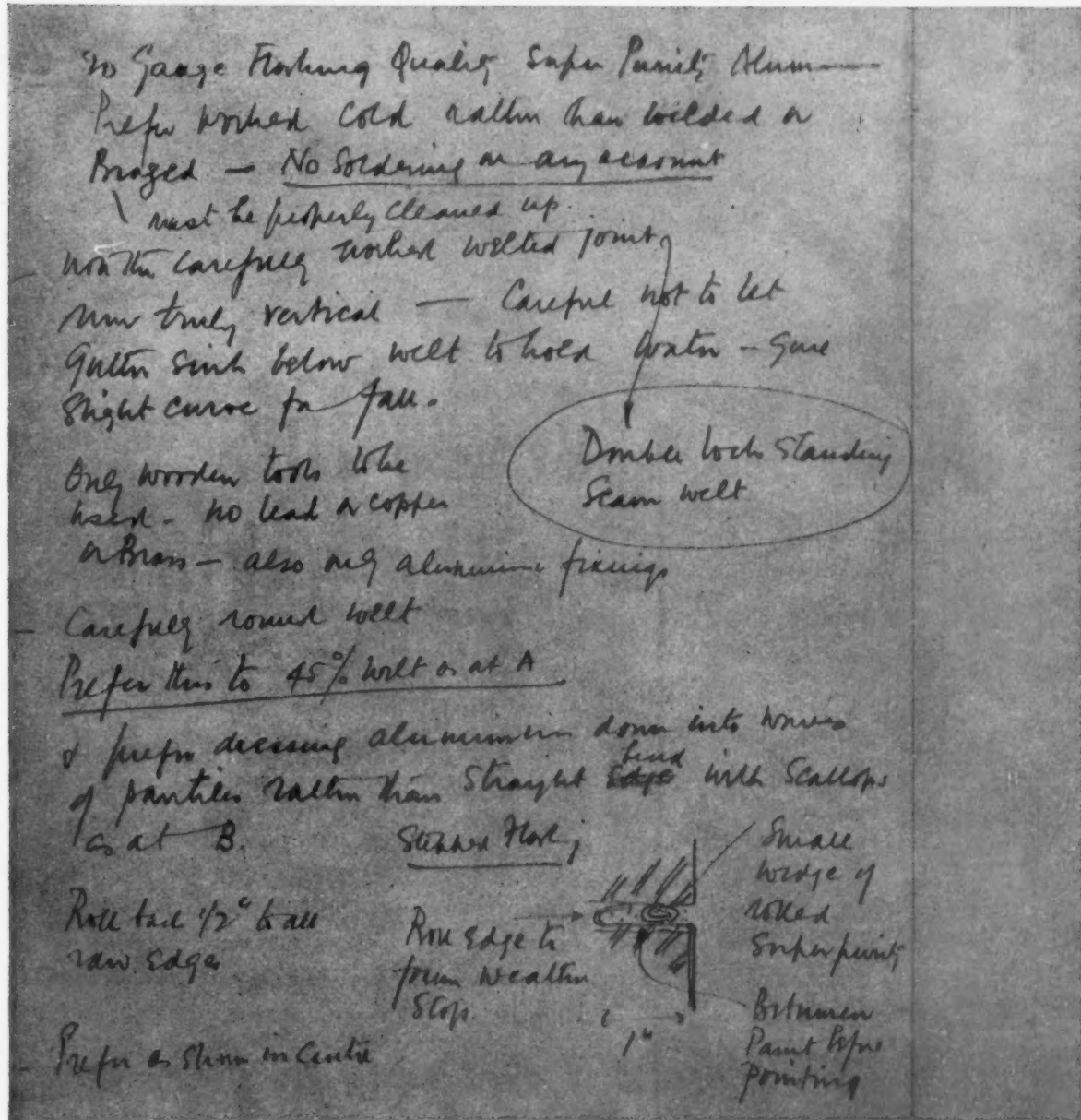
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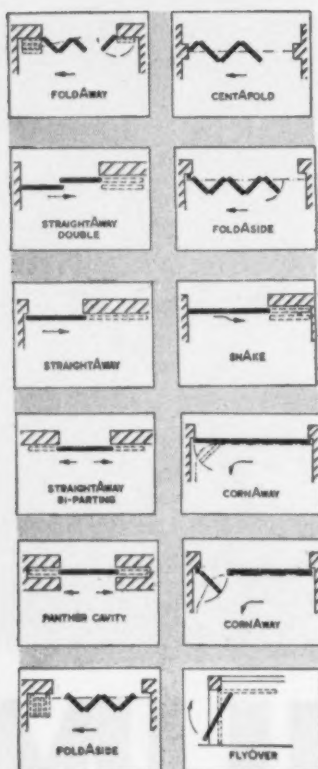
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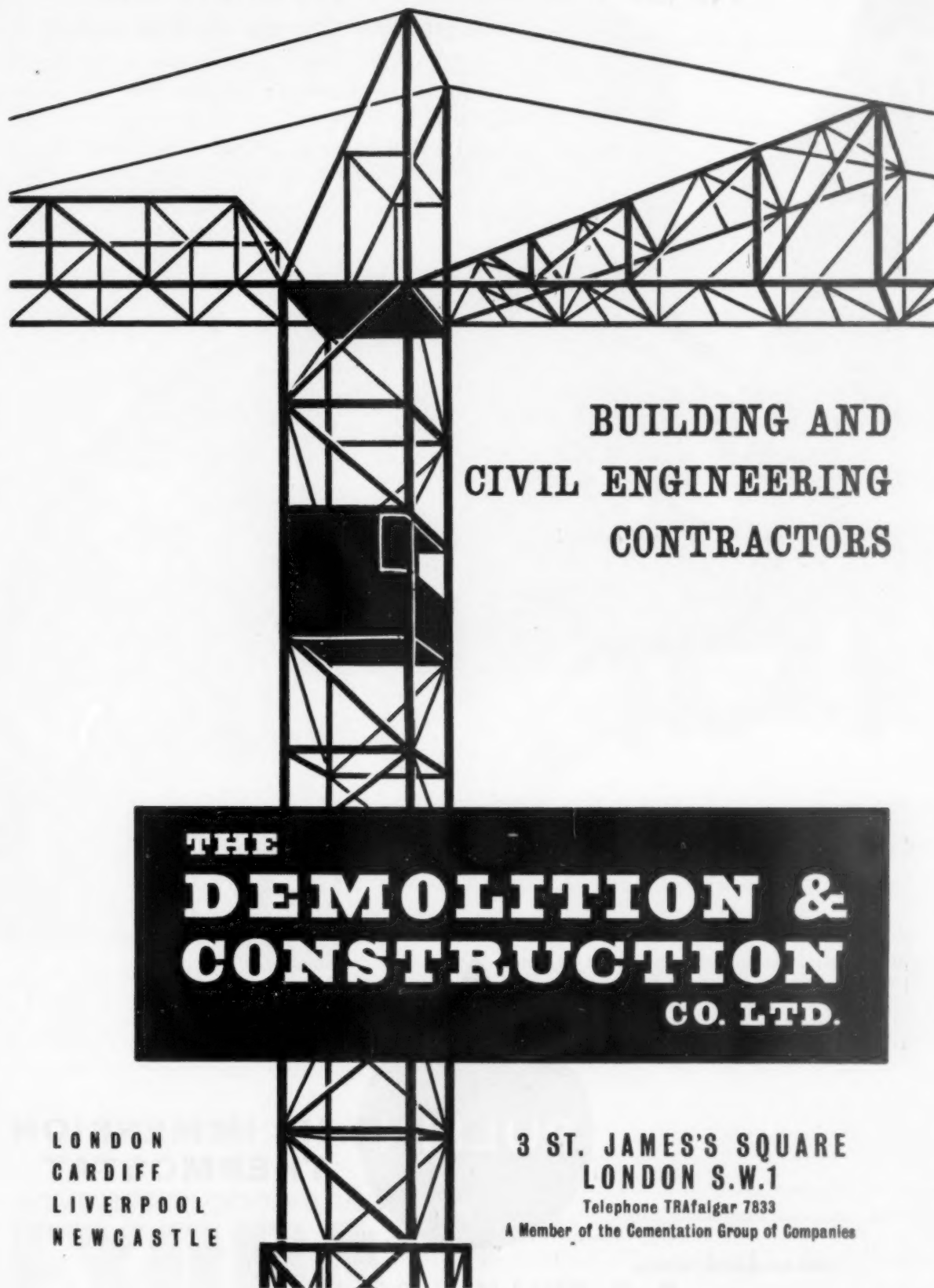
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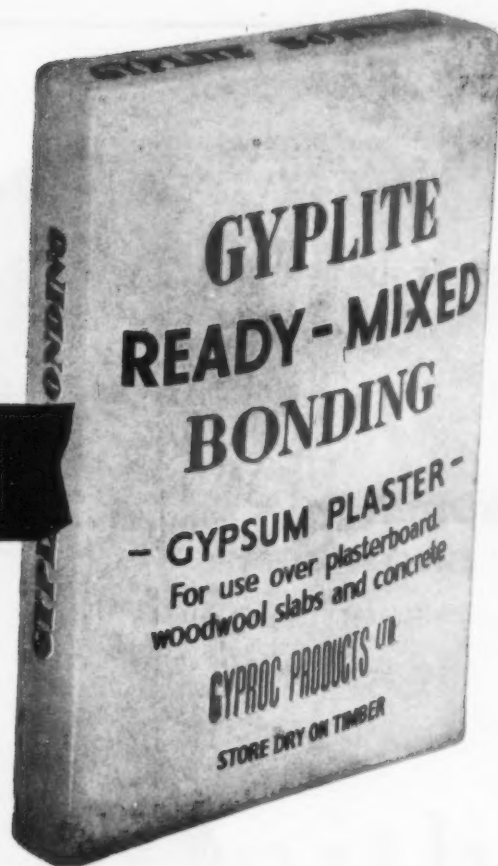
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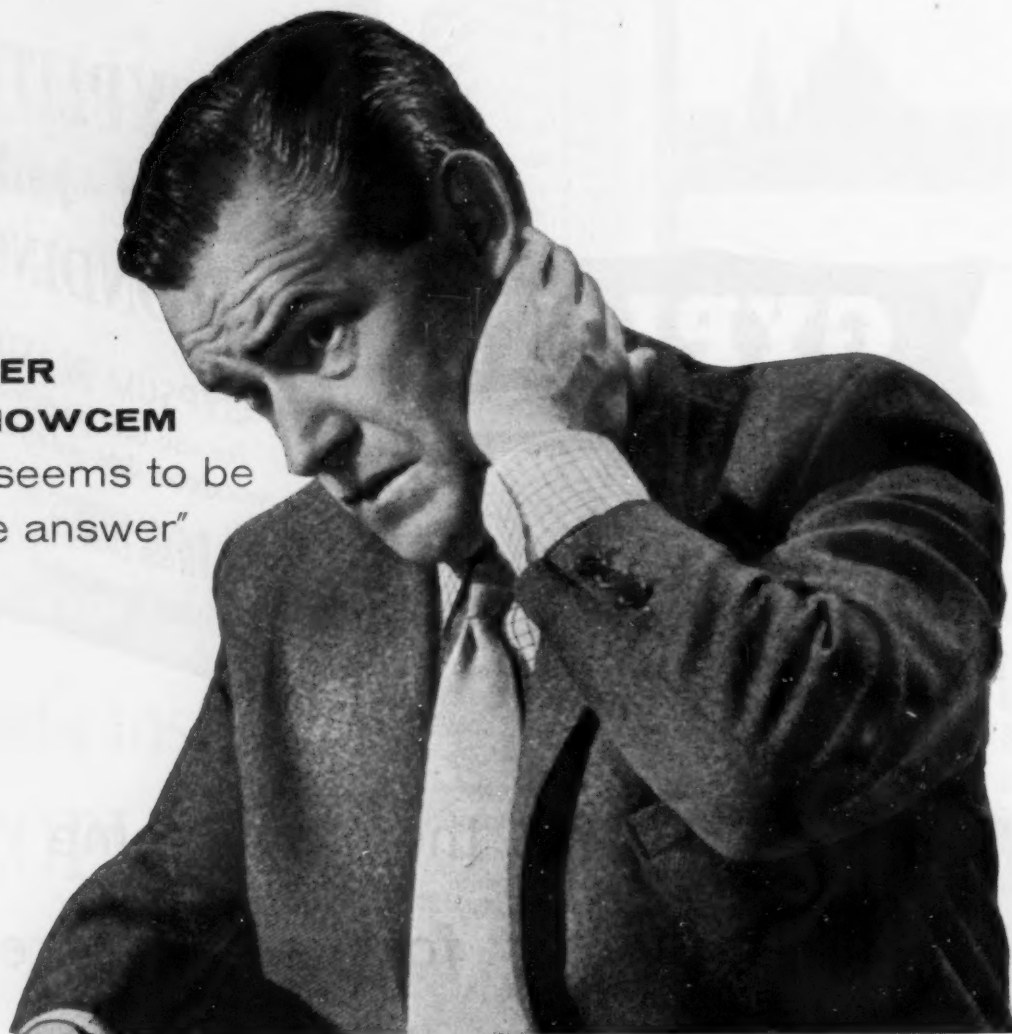
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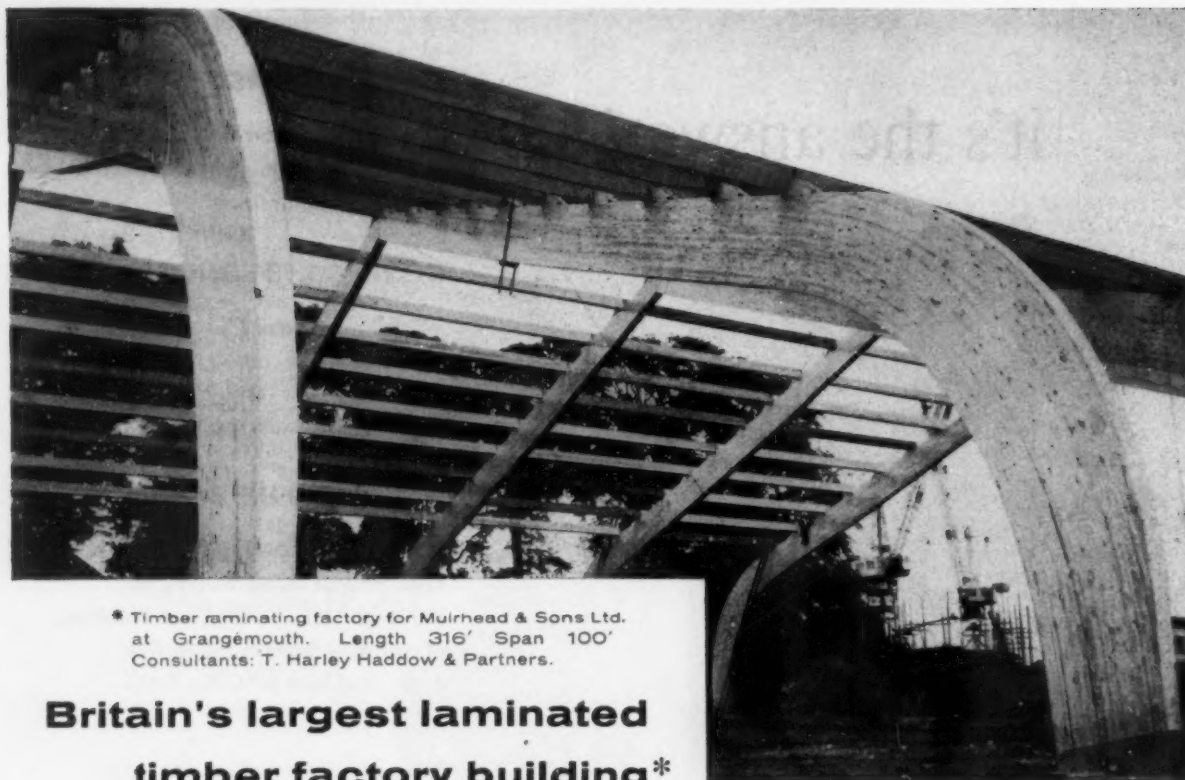
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P.5444



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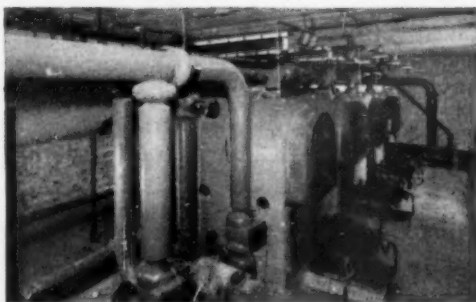
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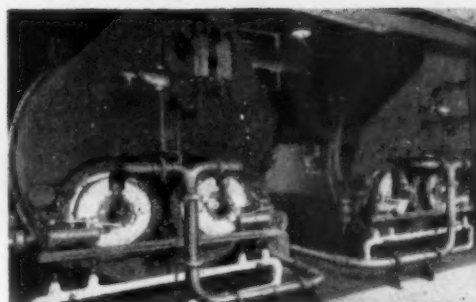
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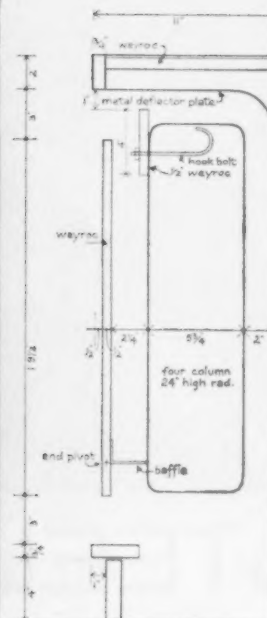
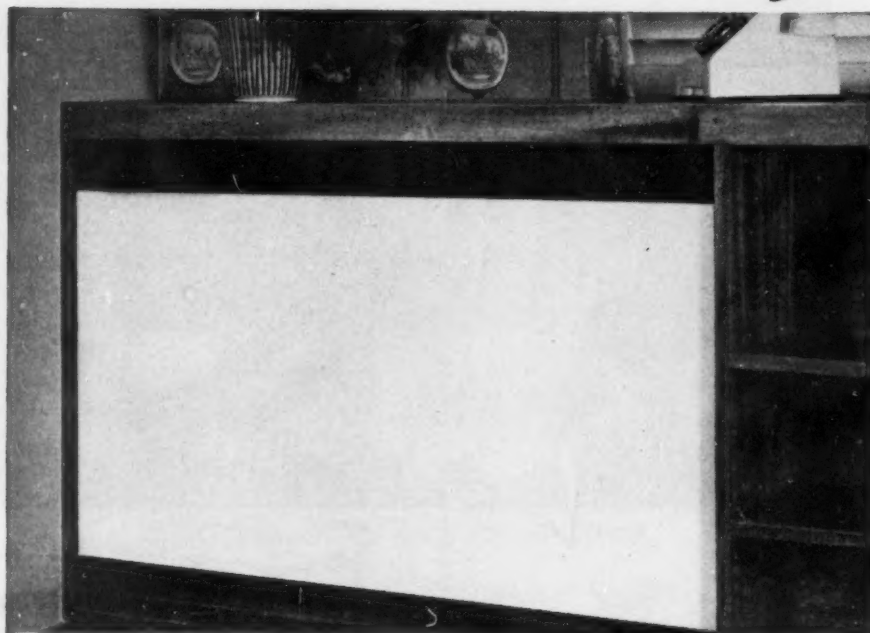
STEELS ENGINEERING INSTALLATIONS LIMITED

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RADIATOR FASCIA PANELLING IN **Weyroc**



LOCATION: Modern Office Block, Holborn

ARCHITECTS: Drew & Salisbury

PROBLEM: To replace, by some practicable, solid material, all-over metal grille fascias which were restricting heat output from radiators. The required material had to ensure maximum heating efficiency, while remaining inert, and be easily and economically decorated.

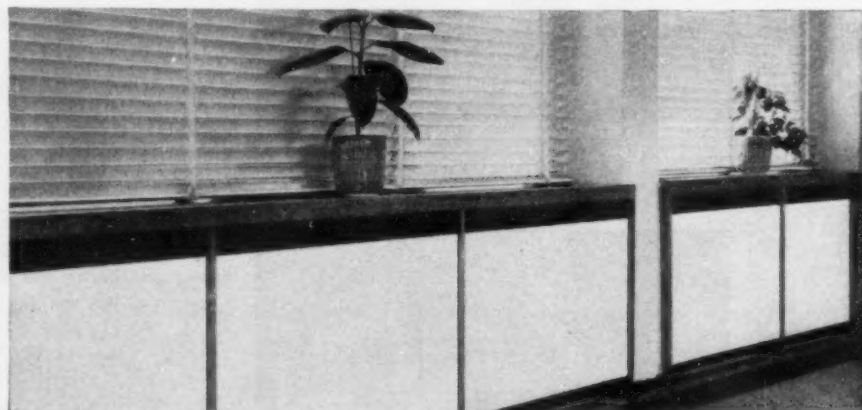
WHY WEYROC WAS THE ANSWER: In choosing Weyroc for the job, the Architect was influenced by its stable characteristics which make it *resistant to heat* without shrinking, twisting or warping. Moreover, the quality of the Weyroc surface allowed for simple working and finishing (in this instance, with paint). *Trade price of Weyroc (3/8" nominal) is 1/6d. per sq. ft.—subject to the usual standard discounts.*

8' x 4' boards of Weyroc were cut to required panel size and hinged to allow access to radiator.

Convection efficiency was achieved by leaving air intake and outlet spaces at bottom and top, and by fitting a curved cove behind the radiator.

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Fascia Panelling is only one of many applications of this constructional 'sheet' material. Weyroc is also being used with great success for partitions, roof-cladding, built-in fittings, bath panels, doors, shelving, etc. We shall be glad to supply Architects with a detailed Weyroc specification sheet and board sample, on request to: Dept. A.J.19

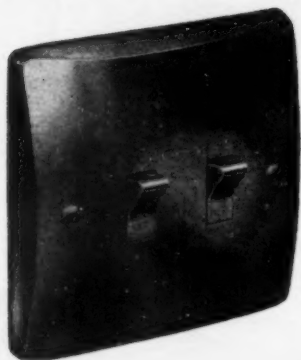


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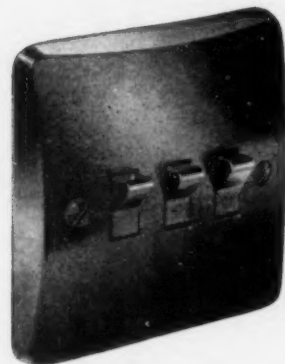
W.P.S. 91



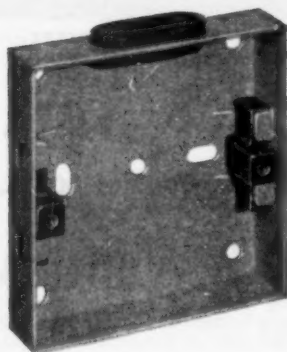
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CRAWLEY NEW TOWN. Architect: H. S. Howgrave-Graham, A.R.I.B.A., A.M.T.P.L.,
Chief Architect to The Crawley Development Corporation.



100,204, 100,205, 100,206 - COO,
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all by Williams & Williams

CRAWLEY NEW TOWN contains an established Town Centre, a flourishing Industrial Area, 9 neighbouring units, 53,000 prosperous inhabitants and well over 100,000 Williams & Williams windows. Steel windows and curtain walling on the Post Office, purpose made steel windows in the Town Centre and steel windows to B.S.S. made to a special size to meet the architects' requirements for the houses.

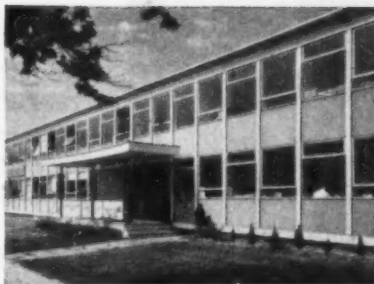
The birth of the Z range The 2' module standard window was developed for the architects of the new towns. These Williams & Williams Z range windows at Northgate went up in 1950—they were among the first in the country.

Tailor made standards Crawley New Town also saw the development of the now established 'CO' standard window—specially made to an intermediate height of 3' 6". These particular ones



at Southgate were specially made by Williams & Williams for Crawley Development Corporation.

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The Williams & Williams phone boxes. The famous phone boxes in the Town Centre were specially made by Williams & Williams to the design agreed between the architects and the G.P.O.



A new way with dustbins Standard equipment throughout Crawley are these dustbin units. The louvred steel front opens on to a steel box which has a hinged lid and contains the dustbin. Rubbish is disposed of from inside the kitchen and collected from outside the house. Specially designed and made for the Crawley Development Corporation by Williams & Williams.

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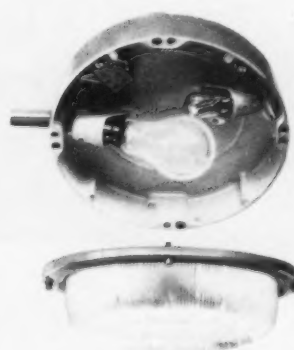
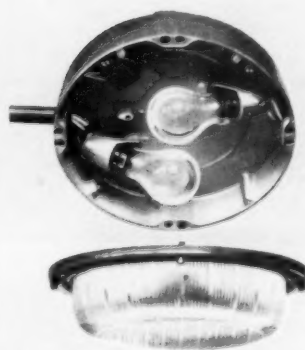
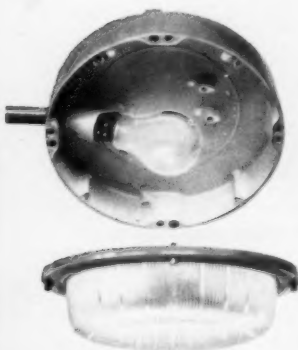
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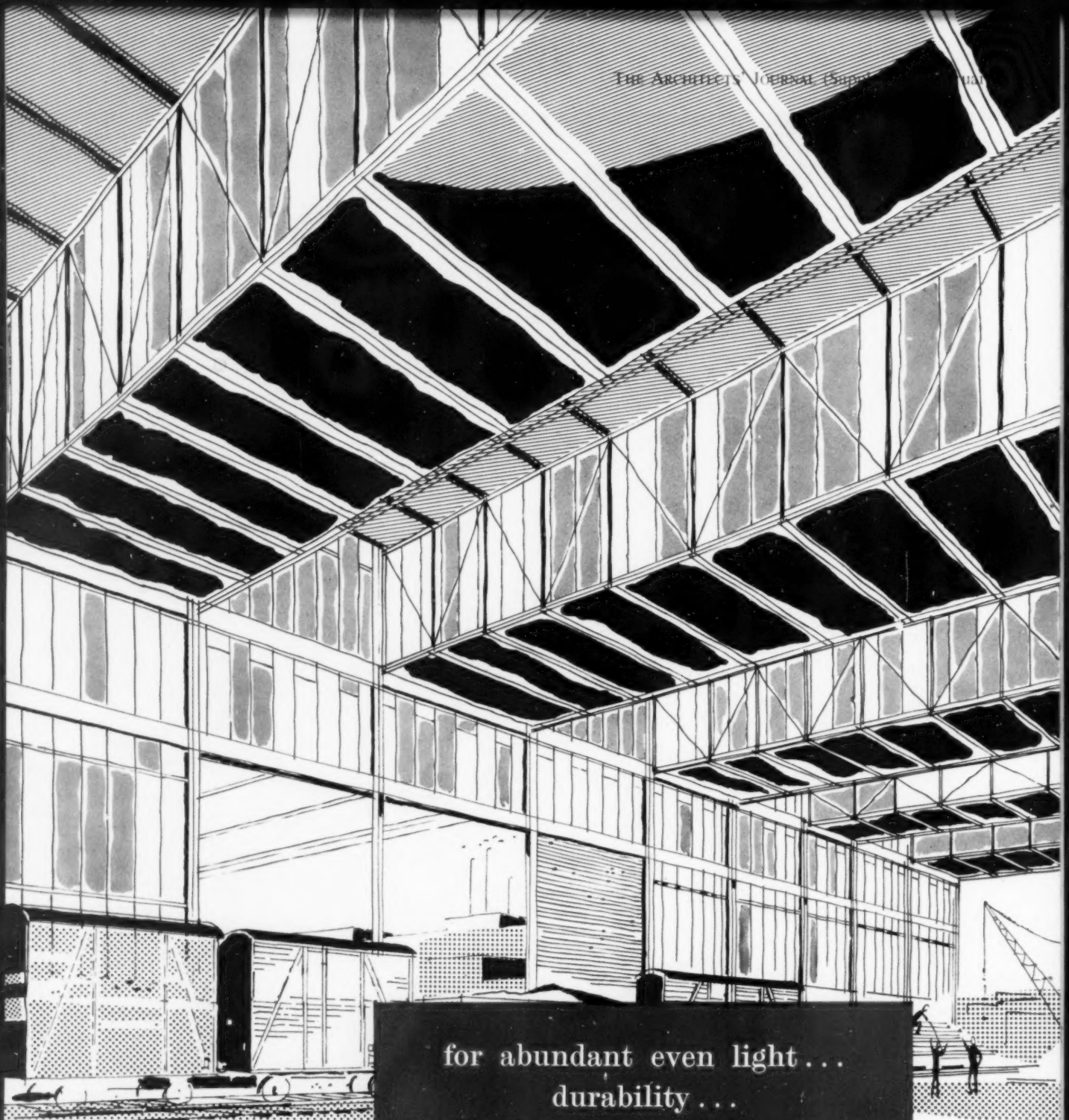
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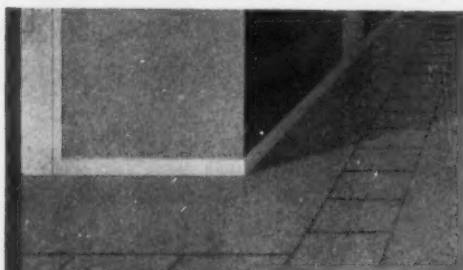
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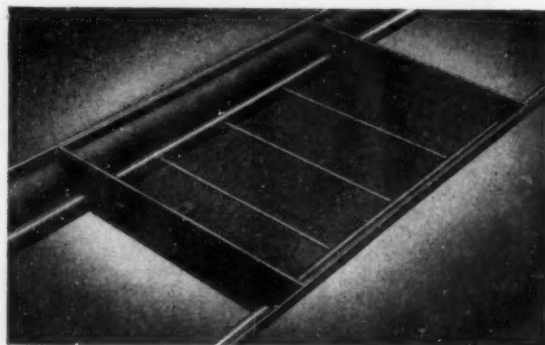
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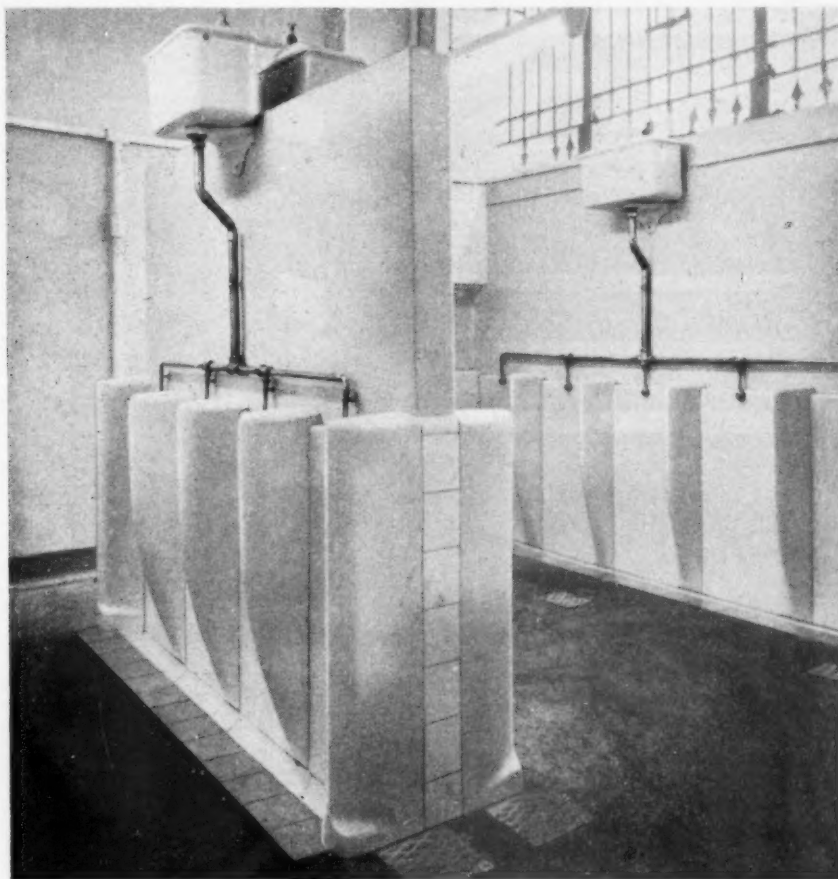
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NEWS FROM HULL



The new 'Standard' Vitreal slab urinals at Charterhouse Street made from vitreous china.

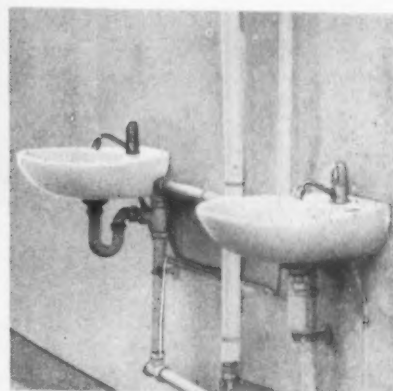
The Vitreal itself is available in three basic forms:—

- (A) Slabs 18" wide plus divisions. Total width per stall 24".
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- (C) Slabs 18" wide with no divisions.

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THE CITY OF LONDON

convenience they have installed vitreous china urinals, water closet suites, wash basins and hand spray basins all made by Ideal-Standard.

The most interesting feature is the Vitreal slab urinal—the first and only full length flat slab urinal to be made from vitreous china. This is an important development—it means that normal cleaning alone will keep the urinal hygienic and free from those unpleasant odours which in the past have been taken for granted. This is possible because vitreous china is fired at such a high temperature. As a result it is a dense non-absorbent material which does not rely upon its glaze to protect it. 'Standard' vitreous china is guaranteed craze free and as it is non-porous and non-absorbent it is impossible for germs to lodge and breed in it and for smells to linger—even after many years of use.



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STAIR

1 stâr; 2 stâr, n. 1 . . . A step, or one of a series of steps for mounting or descending from one level to another . . . usually in the plural (*Funk & Wagnalls Dictionary*)



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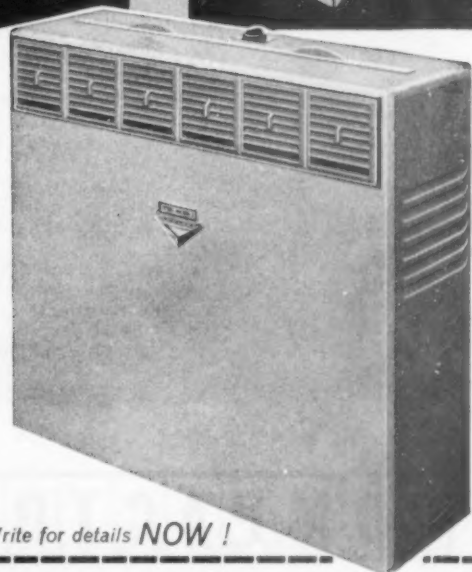
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Burwell White Gault Facings

were used at Highview Gardens, New Southgate

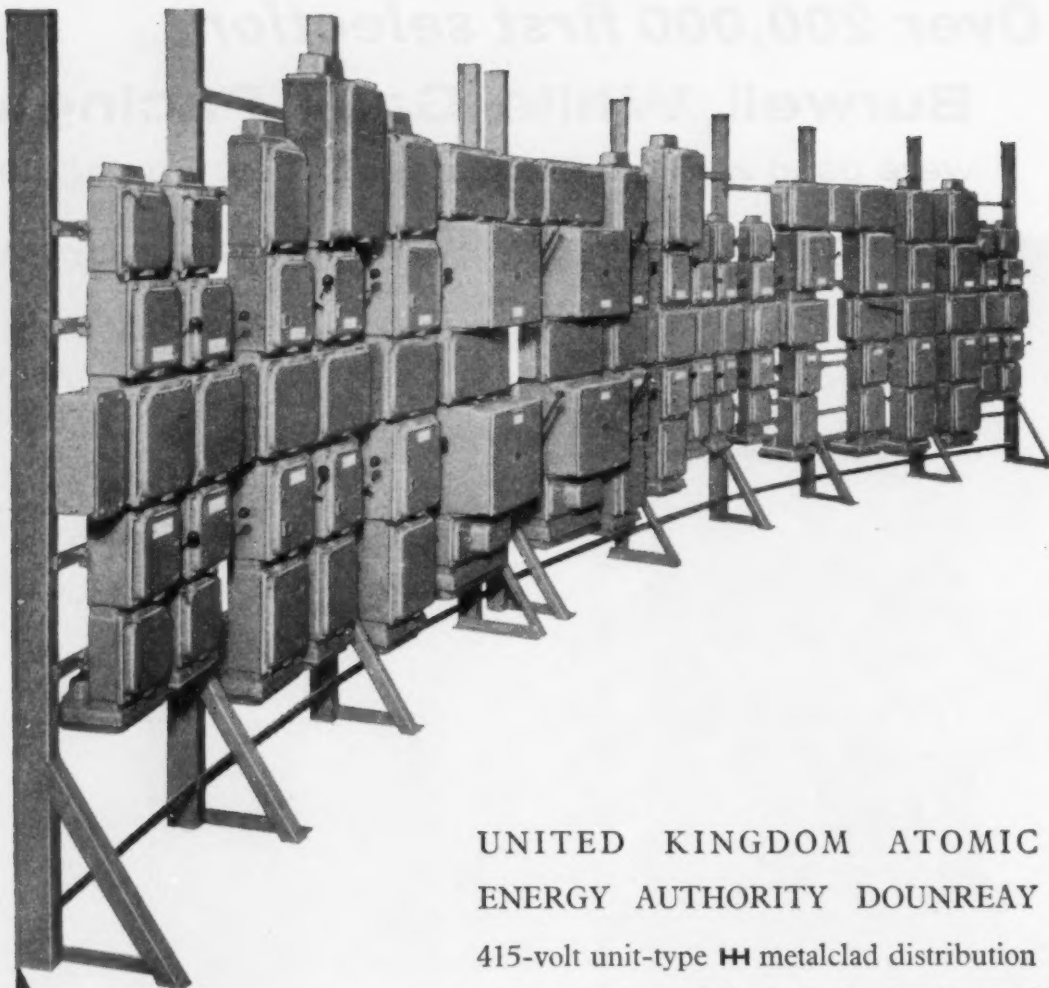


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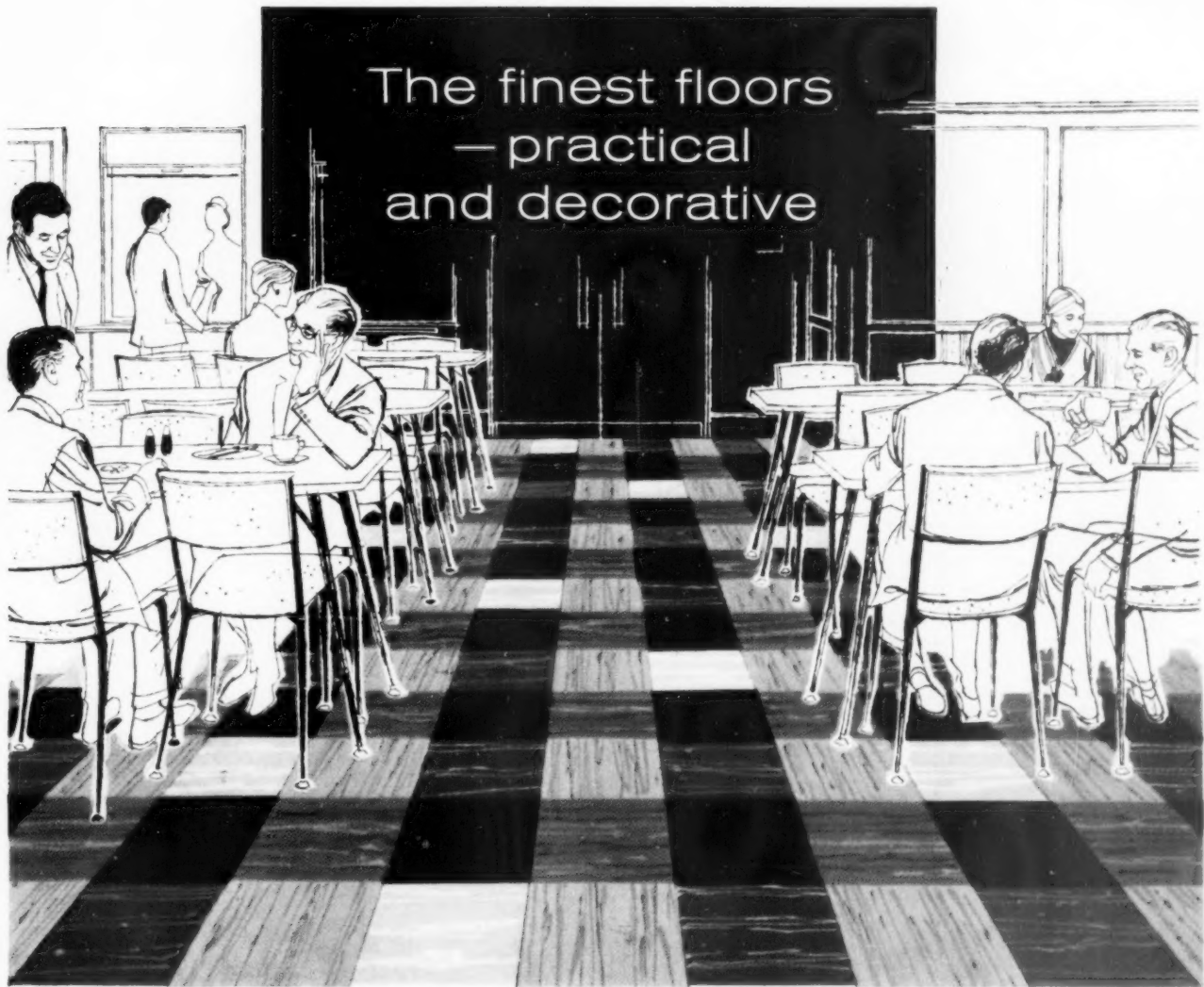


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415-volt unit-type **HH** metalclad distribution
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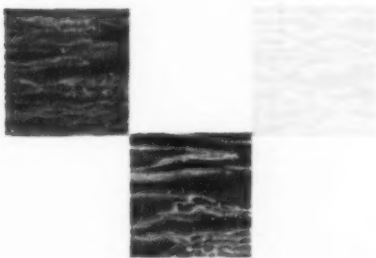
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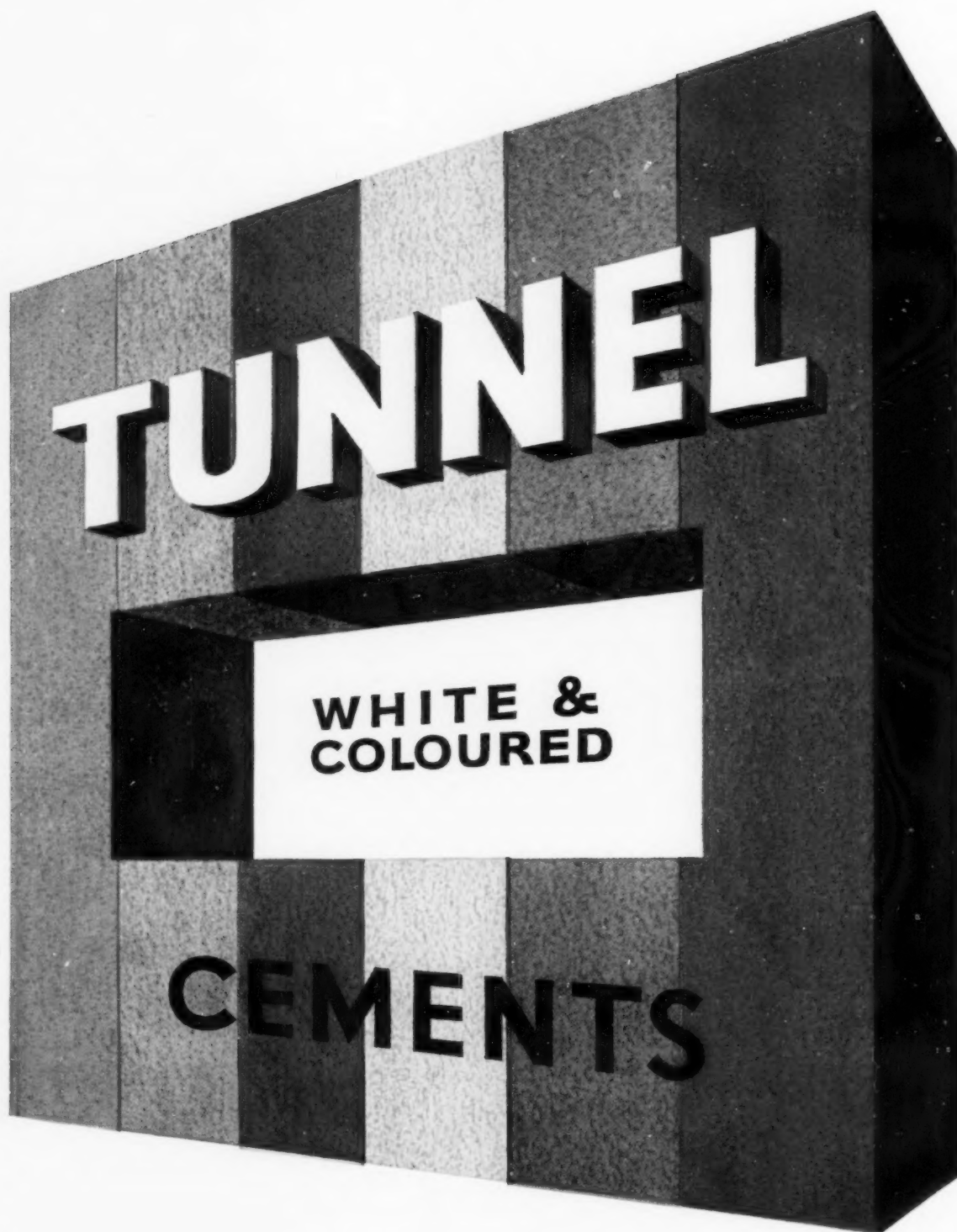
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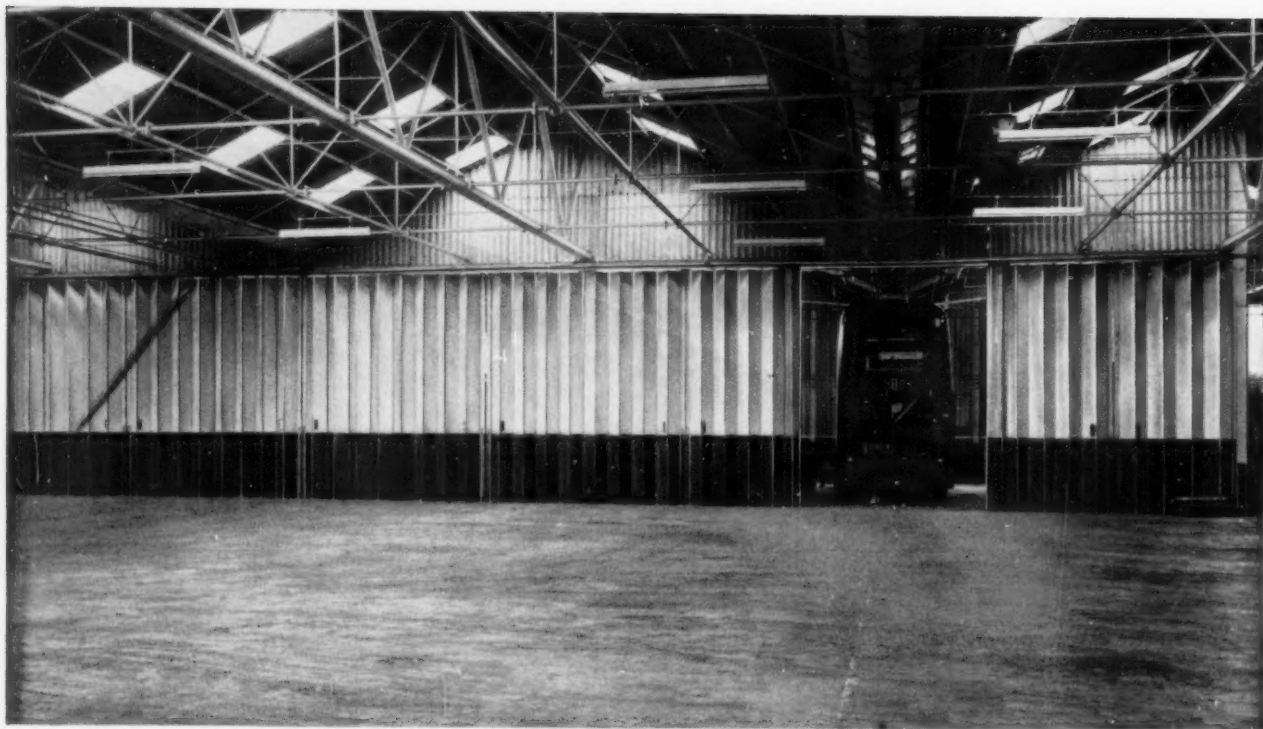
... for wall surfaces in the well-appointed
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Where easily-maintained hygiene is the first essential,
Ceramic Tiles have no equal—
combining immaculate cleanliness with stimulating colour;
eliminating maintenance and re-decoration costs.

Write for an informative new Brochure—"CTF" (Thin Bed Fixative and Grout)
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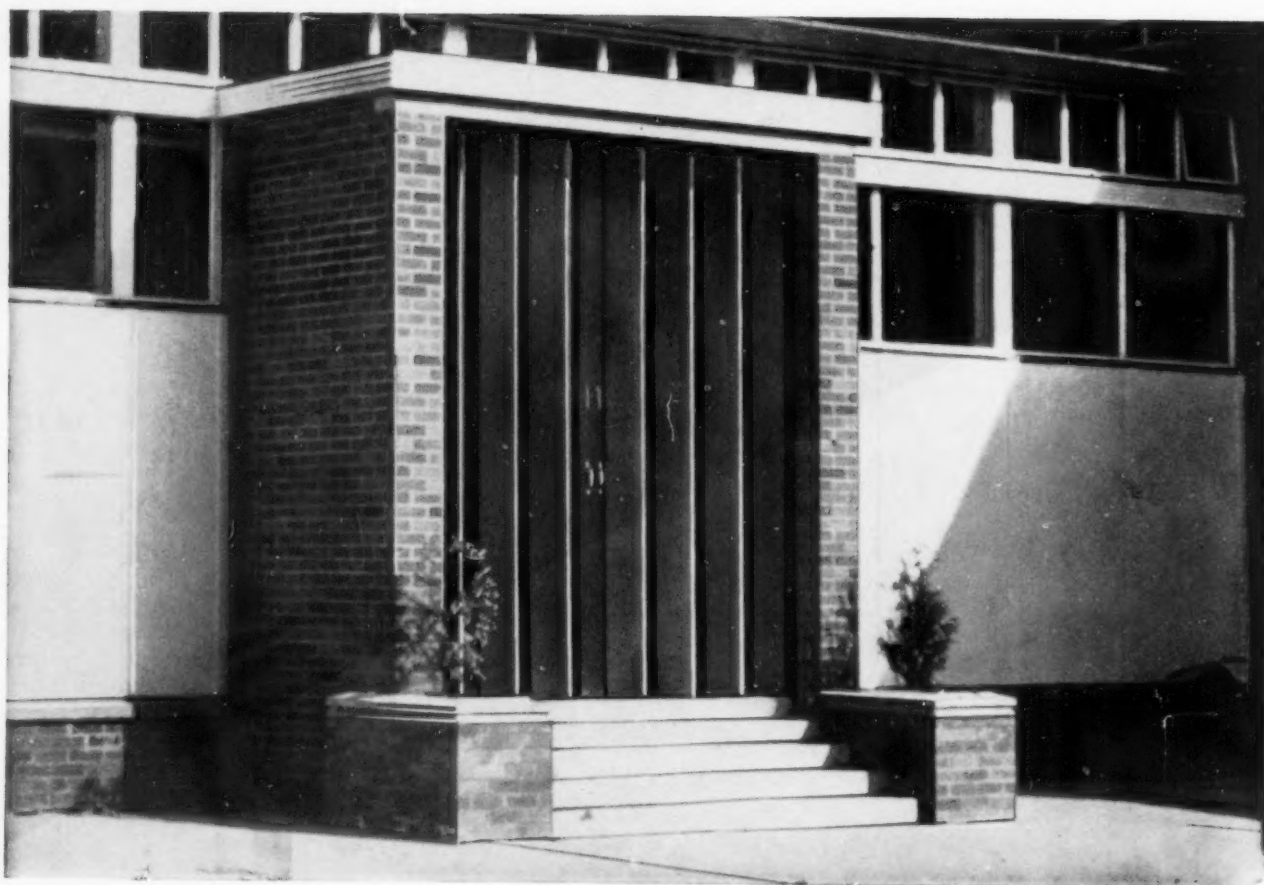
Visit the Council's display of ceramic tiles at the Building Centre, Store St., Tottenham Court Rd., W.C.1.
and at the Scottish Building Centre, 425/427 Sauchiehall St., Glasgow, C.2.

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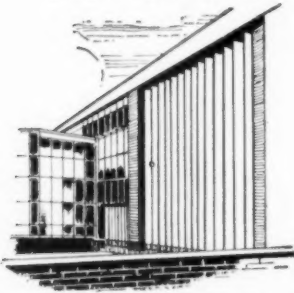


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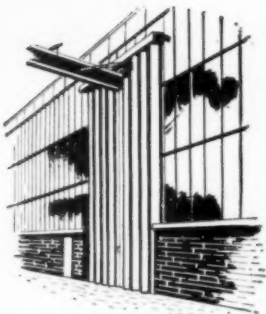


Bolton Shutter Doors for a double garage at a private house.

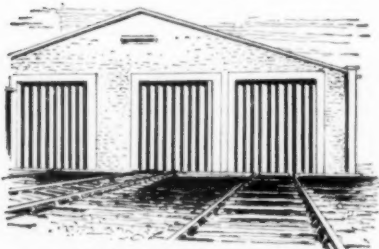


Bolton Shutter Doors at a large modern research centre.

in doors

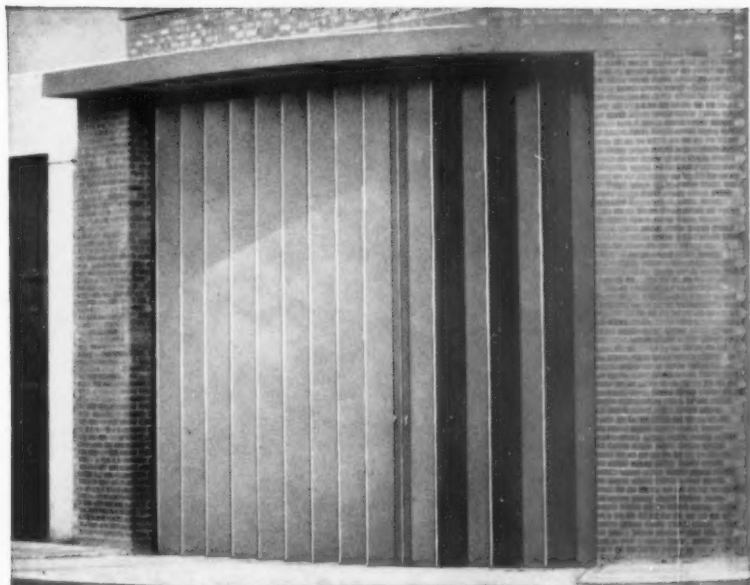


25 ft. high, this pair of Bolton Shutter Doors accommodates a runway beam.



A railway building in Ireland; the top hung Bolton Shutter Doors pass over the tracks.

They're built to last!



Quality is the keynote—
quality in design—top hung on
ball bearings and with all leaves reinforced ;
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sherardised steel leaves, manganese,
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Study these illustrations showing
adaptability ; the view above is of a
Bolton patent Shutter Door in pair—
meeting at an angle. Our latest
catalogue is very informative—
write for a copy now : reference **AJ 344**.

BOLTON GATE CO LTD BOLTON LANCs

Branches in London, Glasgow, Birmingham and towns throughout the country.

everything points to **FILON**



- 1 Hanging sign in translucent white with black fret cut letters.
- 2 Inner edge of surround. Blue 501.
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strong

translucent

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Stelvetite - plastic bonded to steel - has put a new face on Luxfer Partitioning



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Plastic bonded to Steel

SOMETHING NEW IN SHEET STEEL . . . ready surfaced with durable vinyl in the colour of your choice, all set for fabrication—that's **Stelvetite**. It can be cut, deep drawn, folded flat and welded; and the hard-wearing vinyl face which **Stelvetite** shows the world will resist oils, detergents, acids—and time. It comes in a wide range of colours and textures. It is made into vehicles, partitions, ceilings, furniture, kitchen equipment, wall cladding and drums . . . all of them colourful and durable. In production costs alone **Stelvetite** is a money saver. Investigate it!

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STELVETITE*—made in co-operation with BX Plastics Ltd—by **John Summers & Sons Ltd.**

who produce over 52,000 miles of sheet steel every year. Write to us at Dept. AJ, Shotton, Chester, for full information.

* Accepted by the Council of Industrial Design for "Design Index."



POLY-FLOR
on today's smartest
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Provides twice the wear—with half the care

POLY-FLOR 90 gauge true *Vinyl Flooring* and Poly-Flor 45 gauge *Wall-Cladding* was extensively used in this magnificent Wool Exchange Building, acclaimed as the finest of its kind in the world. Poly-Flor 90 gauge on the floor areas gives them a handsome elegance which can so easily be maintained with only soap and water. Poly-Flor 45 gauge is the inspiring wall cladding used on the large wall surfaces—inspiring enough to dream—"I dwelt in Marble Halls". Doors, Pillars, Reception counter tops and a host of other surfaces were likewise covered with this versatile material—

45 GAUGE

90 GAUGE

125 GAUGE

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MODENA LIGHTING FITTINGS BY FALKS

91 Farringdon Road, London, E.C.1. HOLborn 7654. London Showrooms: 20/22 Mount Street, Park Lane, W.1. MAYfair 5671/2

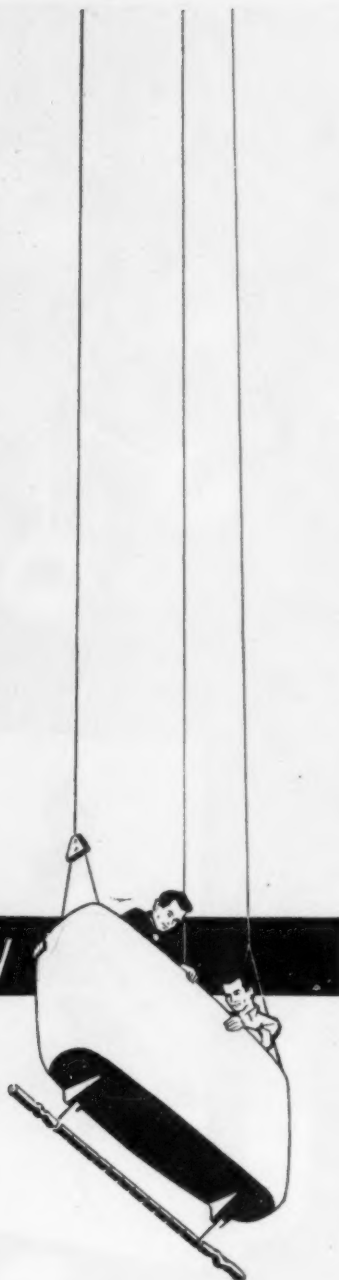


plan for permanent beauty

Architects who include permanent runways for Palmatic Electric Travelling Cradles in their plans provide for perfect maintenance. Fully automatic, the highly mobile Palmatic Cradle can travel vertically, horizontally or diagonally to the exact spot needing attention. As a safeguard, there are independent controls both in the Cradle itself and on the roof. All parts are exhaustively tested, and an array of safety devices affords complete protection.



Other systems available include portable runways and the manually operated Travelling Trolley. Whichever you choose, Palmer's equipment is the one sure way to make beauty permanent.



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above all...



*for
economy
elegance
increased sales*

LUMITRON are already nationally renowned among architects and electrical contractors for their impeccable range of lighting fittings. Now they are introducing their unique pre-fabricated suspended ceilings with which every electrical contractor and shopfitter can carry out his own installations from beginning to end. Designed to give the maximum value at minimum cost, **LUMITRON** suspended ceilings enable contractors to secure the best in this kind of ceiling at manufacturer's cost—so ensuring tremendous economy all round.

Write for detailed brochure today.

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LUMITRON LTD.

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yesterday's craft
tomorrow's design

SCULPTURA

THE LILLESHELL CO LTD

OAKENGATES SHROPSHIRE

Oakengates 120

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Victoria 9992

Lavatory basin and pedestal c1959

Marquess of Queensberry MS1A

One of the Danaides Vatican c170



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A New Post Office Service IT COSTS 6^d

Another new service is available to you this morning in every post office in the United Kingdom. It is an indication of the progressive spirit that now inspires the modern post office, in which mechanisation and new ideas are contributing to the development of the most advanced postal system in the world.

WHAT RECORDED DELIVERY IS

Recorded Delivery provides proof of posting and a record of delivery of your letters and other mail (but not parcels) at a cost of 6d. more than the normal postage. The service will help you particularly if you want to be able to prove delivery of notices and other documents. It is not intended for articles of high value. You can send anything—except money and jewellery—so long as the total value is not above £2: and compensation up to £2 is payable for loss or damage.

PROOF OF POSTING

You must hand all letters and packets for Recorded Delivery over a post office counter: *don't* drop them in a letter-box. You enter the name and address of the addressee on a form provided at the post office, stick a 6d. stamp on the form and a serially numbered label on the packet. The form is date-stamped and handed back to you as proof of posting.

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PROOF OF DELIVERY

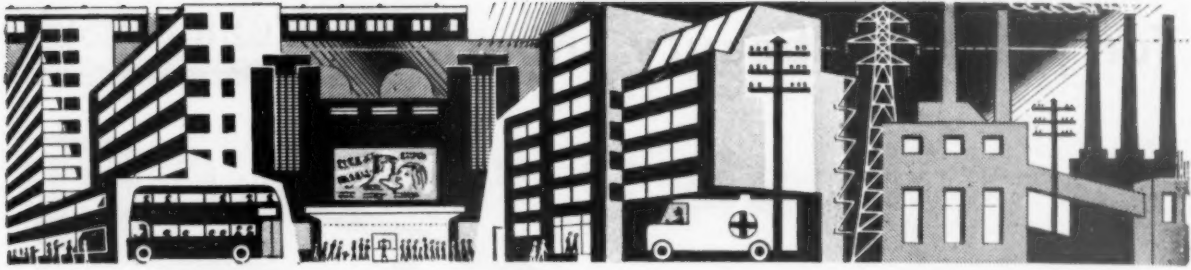
If you want proof of delivery, fill in the special form available at any post office, attach a 6d. stamp, and hand it in, either at the time of posting or up to a year later. A certificate of delivery will then be sent to you.

A FEW LIMITATIONS

Banknotes, coins, postage stamps, saving stamps, open postal orders, open cheques, bearer securities, jewellery and similar valuables are not admissible for Recorded Delivery and should continue to be sent by registered post.

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**FULL INFORMATION ABOUT RECORDED DELIVERY IS
AVAILABLE IN EVERY POST OFFICE**



Save stand-by battery space with the new **CHLORIDE** Stationary Cell

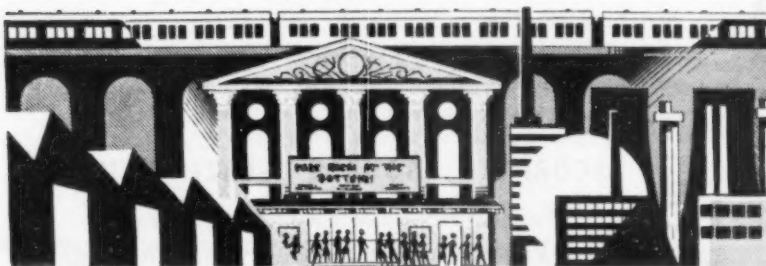
THIS LIGHT, robust cell, with its Planté positive and pasted negative plates, Porvic microporous separators and many other improvements in material and design, saves up to 50% of previously necessary battery space—yet performs its duties with greater efficiency and complete reliability. Specially designed for stand-by duties entailing discharge rates between, say, the 3-hour and the very high rates demanded for switch-closing purposes, it is ideal for trickle-charge operation and has all the remarkable length of life associated with the Planté type of construction.

The field in which the new cell is designed to replace current Planté types is a very wide one. Emergency lighting*, switch operation and emergency supply in hospitals, theatres, cinemas and other public buildings, nuclear and conventional power stations, all rely on trickle-charged batteries. In Great Britain today such batteries occupy millions of cubic feet of valuable space. The new Chloride cell could free almost half of it.

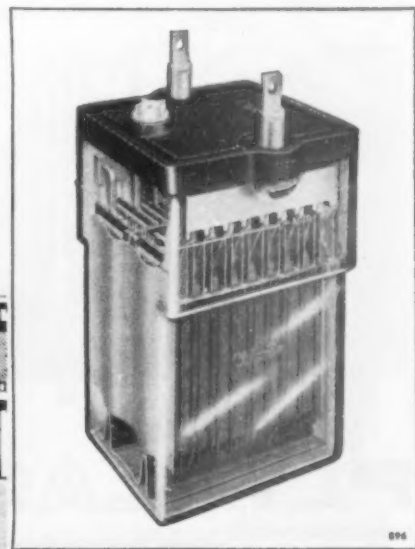
*The new cell will from now onwards be fitted in all Keopalite units—the Chloride Company's automatic emergency lighting system.

A PRODUCT OF CHLORIDE BATTERIES LIMITED
BACKED BY WORLD-WIDE SERVICE

Makers of Exide Batteries



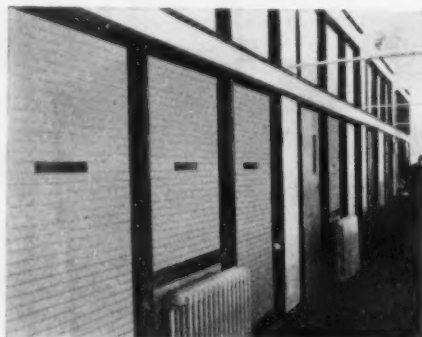
Enquiries to: London Elgar 7991; Bristol 664086; West Bromwich 2361; Leeds 20248; Glasgow, Bridgeton 3734; Manchester Blackfriars 1156; Belfast 27953



for practical beauty choose **PLYGLASS**



'PLYGLASS' Decorated Double Glazing Units in Shepherd's Bush Branch Post Office, Architect: Philip Watkinson, A.R.I.B.A.



The Ministry of Works continue to specify 'PLYGLASS' Clear and Diffusing Double Glazing Units and Vitroslab, for many Crown buildings in the United Kingdom and abroad, in order to provide heat and sound and effective distribution of light.

The practical and decorative possibilities of this versatile material, when used internally, are now being exploited in a variety of Government Offices as the accompanying photographs show. Here 'PLYGLASS' Slatted Double Glazing Units provide partial one-way vision, effective sound insulation and a modern decorative effect. In 'PLYGLASS' Decorated Double Glazing Units, the glass fibre interlayer, permanently sealed between two sheets of glass, can be varied in design, colour and degree of translucence according to individual requirements.

PLYGLASS

DECORATED DOUBLE GLAZING UNITS

Technical information is available on request from

PLYGLASS LTD · EDINBURGH WAY · HARLOW · ESSEX

Telephone: Harlow 24271

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Warm air heating for MULTI-STOREY FLATS

has these advantages:-

- * Low plumbing and installation costs
- * Moderate capital outlay
- * Very low operating costs
- * Hot water "thrown in"
- * Separate temperature control to each flat
- * Separate metering to each flat

...and the best warm air system is

Ductair

The DUCTAIR 22 unit consists of a small insulated cabinet containing a water-to-air heat exchanger and an electrically driven fan. In multi-storey flats the heat exchanger may be connected either to individual CIRCULYN C.70 gas heaters or to piping from a central boiler system. The gas heater can be fitted with a balanced flue or connected to a Se-duct. Space and water heating services can be metered for each flat even when the DUCTAIR heat exchangers are connected to a central boiler system.

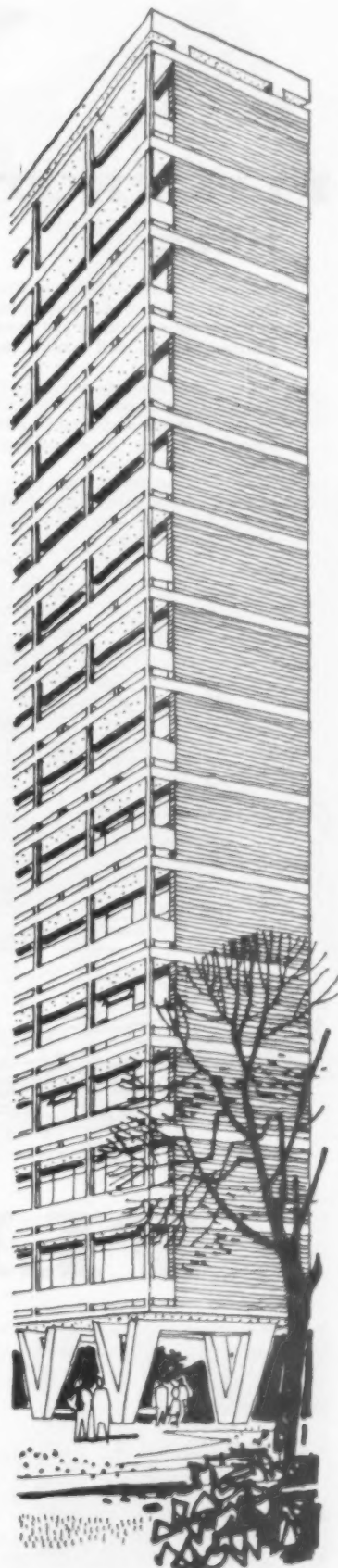
Costs naturally vary widely with the installation. However, assuming a 600 sq. ft. flat with 8 ft. ceilings the capital cost would probably be between £165 and £180, and the operating cost with gas at 13d. to 21d. per therm would be between 10/- and 16/- a week.

It has already been said that these low costs include hot water. Perhaps a point of even greater value in high flats is the ease with which the warm air can be used to provide a drying cupboard to cope with all the wash.

Write for data sheets and full technical information about Radiation DUCTAIR—the system that pioneered domestic warm air heating in this country. With our ten years' working experience we believe we have a unique service to offer anyone concerned with better heating for better buildings.

WRITE TO:

BRATT COLBRAN LIMITED • 10 MORTIMER STREET • LONDON, W.1 A Radiation COMPANY

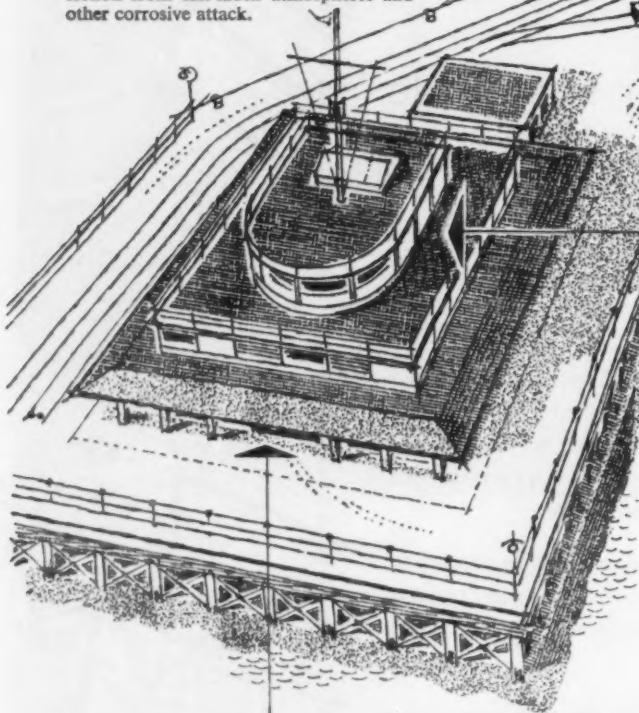


FLINTKOTE HERE

For floor surfacing—Flintkote floors are ideal for tough traffic conditions; remarkable wear resistance and durability, dustless, non-slip, self healing, applied cold.

For roof waterproofing—provides a firmly-adhered, flexible and impervious coating. Applied cold and reinforced to withstand normal movement. Simple to apply and satisfactory in any climate.

For metal protection—forms a thick, tough bitumen coating giving long-lasting protection from salt-laden atmospheres and other corrosive attack.



FLINTKOTE THERE

These are but a few of the many uses for various Flintkote Products—we should be pleased to tell you more.

Whatever the country, it is probable that Flintkote Products will be available there from stock and that "on site" technical advice can be given. The advantages of these facilities will be readily appreciated. Every building needs Flintkote—somewhere.

The Flintkote range includes products for: Roof Waterproofing · Industrial Floor Surfacing · Metal Protection · General Waterproofing and Damp-proofing Tanking · Thermal Insulation Protection and other specialised applications.

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ALMOST EVERYWHERE



Harbour warehouse, Gothenburg, subject to continuous 4-ton truck traffic. Still in good condition after 8 years, without maintenance.



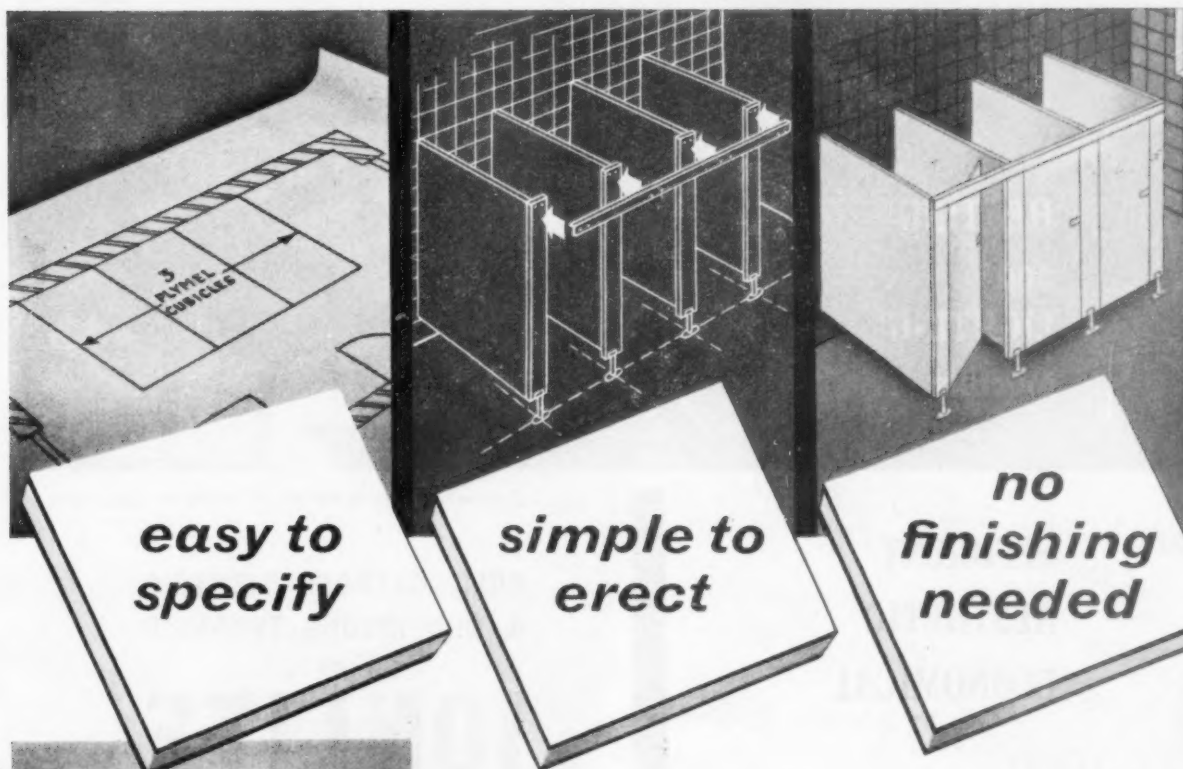
THE FLINTKOTE COMPANY LIMITED
Adam House · One Fitzroy Square · London W.1
Telephone: EUSton 7224

Plymel

UNIT COMPARTMENTS

save work at every stage

*now in
a range of
colours*



W.C. Compartments and shower cubicles in Plymel, the new melamine-faced material by Venesta Plywood Limited, are prefabricated in standard units to save hours of your time.

On the drawing board, you simply specify 'Plymel cubicles' and there is no need for further detail. On site, these rigid, lightweight, prefabricated units are easy to handle—they arrive dismantled ready to erect and they *need no painting*. Once erected, they are resistant to moisture and corrosion—easy to keep clean with the minimum of effort.

For samples, and full details of

Cubicles, W.C. and Shower Compartments
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Vintry House, Queen Street Place, London, E.C.4. CENTral 3040

T.A. 2402



**HEATING
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together . . .**

**EFFICIENT
AESTHETIC
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the addresses below.

Acknowledgments to the British Transport Commission

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BP.117

The advertisement is a collage. At the top, a torn architectural drawing shows a kitchen layout with the word 'KITCHEN' and a gymnasium layout with the word 'GYMNA' and dimensions '30'-0" — 80". A black torn paper overlay on the kitchen drawing reads 'Leave this to EUK'. Below the drawing is a black and white photograph of a large, modern professional kitchen with multiple workstations, sinks, and a large range hood. In the foreground, a spiral-bound notebook is open, showing handwritten notes in cursive. The notes are as follows:

Re Kitchen Planning
Survey: EUK to measure up -
 note ultimate requirements -
 suggest best types of
 catering equipment for our
 purpose. ✓

Planning: EUK to advise ideal
 layout for kitchen services. ✓

Manufacture: by EUK to
 approved specs. & schedule ✓

Install using EUK labour. ✓

Agreed!
 - Euk are experts at ✓
 Kitchen planning - pass
 them the entire job
 Tues. A.M.
 A.D.G.

At the bottom of the collage is the EUK logo, which consists of the letters 'EUK' in a bold, sans-serif font inside an oval border.

EUK CATERERS FOR THE CATERER

EUK CATERING MACHINERY LTD.

HEAD SALES OFFICE: LATYMER COURT, HAMMERSMITH ROAD, LONDON, W.6.

SCOTTISH OFFICE & SHOWROOM: 4/8, LADY LAWSON STREET, EDINBURGH, 3.

WHERE IS THIS STAIRCASE ?



This elegant staircase, with its delicate use of metalwork, is actually on board a ship—the new luxury liner "Windsor Castle".

The designers chose, as do so many today, to edge the stairs with Ferodo stairtreads. For Ferodo stairtreads combine, with long life and non-slip safety, a clean modern look that enables them to blend successfully with contemporary interior design on land or at sea.

- 7 attractive colours.
- Comprehensive range—29 treads with nosings, 3 flat treads.
- Aluminium, silver bronze or manganese bronze channels.
- Special orders can be manufactured

Write to our Stairtread Department for full illustrated literature for your file.

FERODO non-slip stairtreads

FERODO LIMITED
CHAPEL-EN-LE-FRITH
A Member of the
Turner & Newall Organisation

10/9

GLASS

retells an old tale...

These illustrations show sections from the windows in the Chapel of the Portland Training College for the Disabled at Harlow Wood, Mansfield, which retell the story of THE PILGRIM'S PROGRESS. The designs, by Gillian R. Crowther, Des. R.C.A., were sand-blasted and brilliant cut on polished plate glass, with the background acid-stippled. Architects for the College: Messrs. Evans, Cartwright & Woollatt of Derby and Nottingham.



**REED, MILLICAN
& COMPANY LTD.**

*Artists and Craftsmen in Glass
since 1847*

NEWCASTLE UPON TYNE AND GATESHEAD

TELEPHONE: 78401 (6 lines)



The Architects' Journal

No. 3433. Vol. 133. February 2, 1961

9-13 Queen Anne's Gate, London, S.W.1. Whitehall 0611

Subscription rates: post paid, inland £2 15s. 0d. per annum; abroad £3 10s. 0d. per annum. Single copies, 1s.; post paid, 1s. 6d. Special numbers are included in subscriptions; single copies, 2s.; post paid, 2s. 6d. Back numbers more than 12 months old (when available), double price. Half-yearly volumes can be bound complete with index in cloth cases for £1 17s. 6d.; carriage 2s. extra.

NOT QUITE ARCHITECTURE



NON SERVIAM. October, 1960

The October 13 *Radio Times* preview of the TV programme "Destruction from the Depths" turned me into a Unilateralist. Its twopenny blood, Hollywood trailer language and billing of Richard Dimbleby as a *Polaris* commentator were the Establishment's enthusiastic way of heralding the possible extermination of life on earth. Let me look back a bit.

MAN OF GOD. Ballantrae, 1945

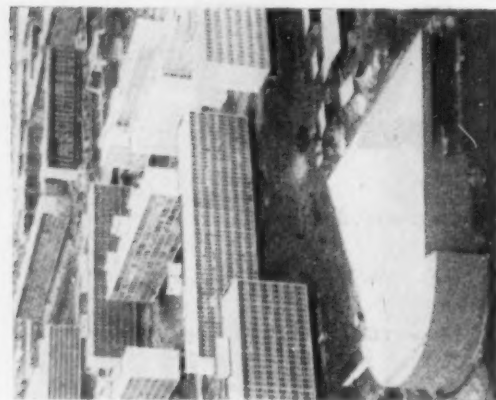
"Hiroshima? Where's Hiroshima?"

"How many thousand tons?"

"Where is Hiroshima?"

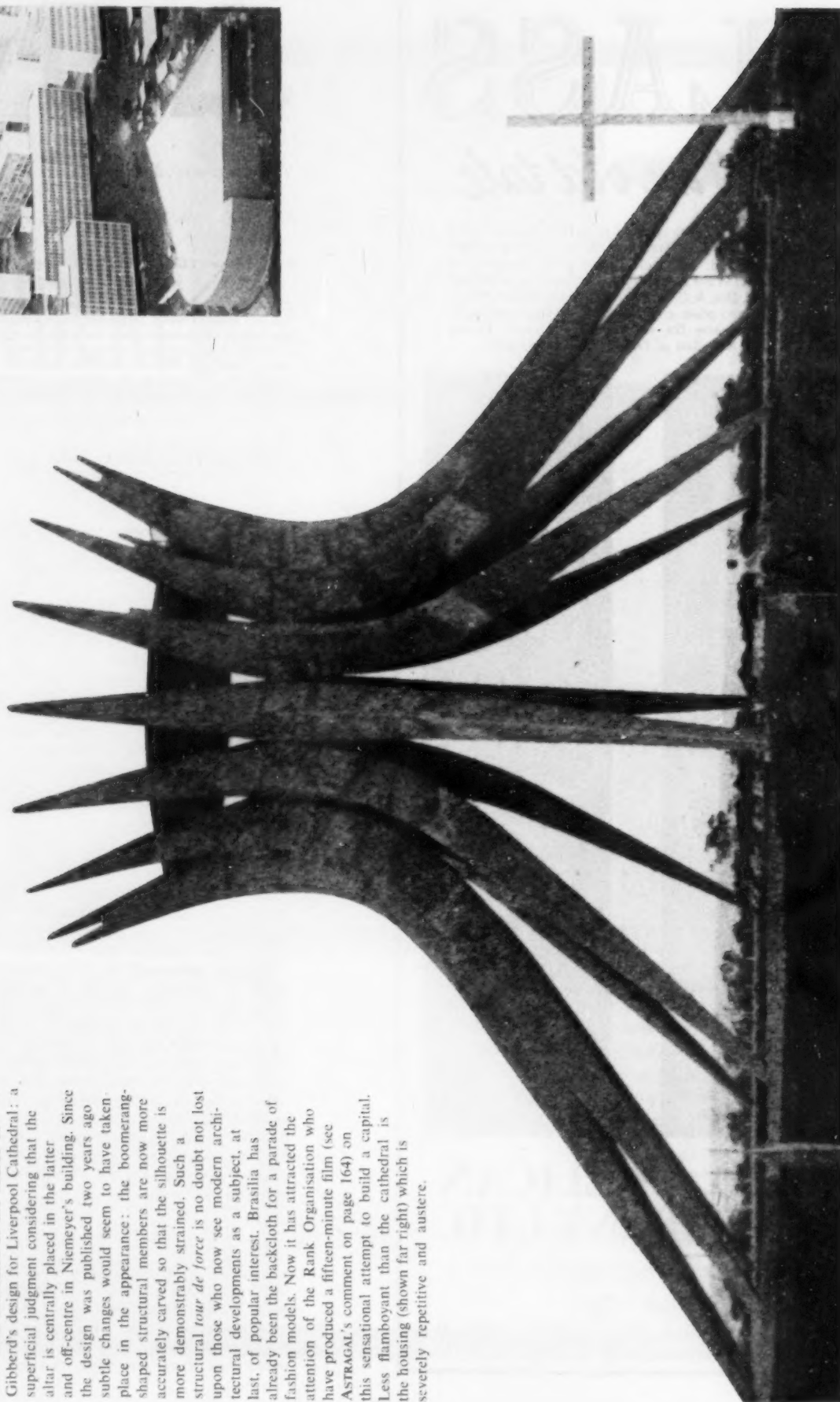
And Joe telling us. Looking a bit smug telling us, fat fingertips at prayer and elbows pressing on the cutlery. "Nippon," he told us. "Equivalent to 20,000 tons." At first it was Yes Joe, Really Joe, Is that so Joe? And with the mess waiter that had followed him in at the fag-end of dinner now placing a bowl of skinny soup under the arch his arms made, the arch that was for fuss and Dalmations and hair in his ears and plans to enter the Church, it was poor old poor old poor old Joe.

You were over at the window. The valley lay outside the window, long-shadowed down its wide length, the sun's late heat heavy on your face after a day out of doors jungle training. An atomic bomb. That would have been something, wouldn't it.



Brasilia

Oscar Niemeyer's design for Brasilia's cathedral is now very familiar. It has even been attributed as the source of Gibberd's design for Liverpool Cathedral: a superficial judgment considering that the altar is centrally placed in the latter and off-centre in Niemeyer's building. Since the design was published two years ago subtle changes would seem to have taken place in the appearance: the boomerang-shaped structural members are now more accurately carved so that the silhouette is more demonstrably strained. Such a structural *tour de force* is no doubt not lost upon those who now see modern architectural developments as a subject, at last, of popular interest. Brasilia has already been the backdrop for a parade of fashion models. Now it has attracted the attention of the Rank Organisation who have produced a fifteen-minute film (see ASTRAGAL's comment on page 164) on this sensational attempt to build a capital. Less flamboyant than the cathedral is the housing (shown far right) which is severely repetitive and austere.



coming high over from Peenemunde? Suddenly there was a flash and high, high above death in the valley the Very Reverend Koala Joe was shinning for all his worth up a tall pillar of cloud calling for God and the battledress on you felt like a red coat outfit. We had had it. Four months later Joe was with Shell.

GENERAL OFFICER COMMANDING,
Camberley, 1951

General Goodbody said, "Not here, Mudie! We must disperse in the atomic age." So I took my scout car out from under the General's tree and put it under a neighbouring tree and then followed on foot.

The General was going to watch a demonstration. With him was another general. As Jane Austen wondered how men talked in private, I how generals, so I achieved a proximity absurdly presumptuous for two pips to two generals. The generals waited in a hedge. Three tanks crossed the field, moving one up and each tank carrying a gun far too long for it. They didn't do anything. They crossed the field and vanished in a copse. "By golly!" said my general, spanking his fist into the other palm, "that's the stuff to give the Russians!" The other general looked very happy too. They were both very nice generals.

DIEU ET MON DROIT, Whitehall, 1958

One sharp clear morning gravel for the horses had been swished over the roadway and the Household Cavalry had gone by. The populace. Walking-sticks, umbrellas, bowlers, tweed caps, bare heads, shopping baskets, very many shopping bags and shopping baskets; these and bunting and horse dung and a mounted policeman mincing as he changed direction on a man-hole cover with tall, contained authority and a delicate clippity-clop.

At last it came by with, surprisingly, her in it—oo isn't she lovely, oo isn't she lovely—and with the cheering some powerful atavistic semblance of myself rose inside me, surprisingly, and my throat thickened and I would have needed only the word of command to lay waste all of Her Majesty's enemies. She knew nothing about this. She was on her way to open Parliament.

EASTER MONDAY, 1960

Scene: The Cabhouse, Westminster. James, a harman, wipes the bar top. Enter Self.
JAMES (surprised): Hullo, sir! I wasn't expecting you in on Bank Holiday.
SELF: I've just come from the rally.
JAMES (dubiously): How was it?
SELF: Quite something.

(Pause)

JAMES: Oh well, I don't suppose it'll make much difference, sir. If they want to drop the Bomb they will.

ROBIN MUDIE

The Editors

HOSPITALS KICK OFF

THE announcement by the Minister of Health of a new deal for Regional Hospital Boards (reported on p. 169) is evidently a signal for the start of the Hospitals Building Programme. This programme, which is to rise within a few years to an annual expenditure of £50m., is equal in weight to half the schools' building programme and it is a big question whether it will be handled so expeditiously and whether it will contribute so much to architecture and building.

Though they have much in common, the Ministry of Health and the Ministry of Education have a different starting point. The Ministry of Education was dealing with local education authorities who had been established for over half a century: the Ministry of Health is acting through Regional Hospital Boards little over ten years old. The local authorities had pre-war experience of commissioning architects: the Regional Boards have none. In the educational programme first priority was for new school "places"; in the Health Service there are enough "beds," but they are of the wrong kind and in the wrong sort of hospitals. Although the Butler Act laid down a new pattern of education, education authorities were more or less agreed on fundamentals; the setting up of the National Health Service and advances in medicine (antibiotics, mental health, etc.) have provoked far more radical rethinking.

The Ministry of Health has made a good start in allowing the Regional Boards to plan ahead in confidence, though to call on them to plan for so far ahead as 10 years seems unrealistic. The Minister caused some alarm at this Press conference by giving his hearers to understand that his Ministry was to issue type designs and that projects which conformed to these and conformed also to the Ministry's cost targets would not need detailed examination by the Ministry; but we are greatly relieved to learn that type plans are not envisaged. The fundamental weakness of the Ministry of Health's position lies in the excessive authority which has been delegated to the Regional Boards. Some indication of what this means can be gained from the Ministry's first "Hospital Building Note" issued at the beginning of last week. This Note gives advice to Regional Boards on how to prepare the ten-year building programme which the Minister requires of them. The Note summarises the rather scanty knowledge that we have of this vital and complex subject and it will doubtless be very useful to the Boards. What it does not do is to provide a uniform basis on which needs are to be assessed. Though there is a good case for allowing the Regional Boards latitude in deciding how they will provide for needs, there seems no case for allowing each Board to assess its needs in its own way; for how, in that event, will the Ministry be able to adjudicate between them?

This administrative weakness makes it all the more important that the Ministry should engage in development work on

their own account, since it is only by this means that they hold their own against any irrational opinions that might be generated in the Boards. For this reason it is comforting to know that the Ministry's own architects are already working on projects for an outpatients' department, for operating theatres, for an X-ray department and for a hospital catering unit. These make a beginning, but only a beginning.



STATIONS IN TRAIN

ASTRAGAL was delighted, last week, to see some fascinating railway projects at the Marylebone headquarters of the British Transport Commission. Dr. Curtis, the BTC's architect, showed these to a selected audience—after talking about his work to members of the Royal Society of Arts—as a means of refuting criticisms made by Robert Harling in the *Sunday Times*. These buildings should be allowed to survive threatened economy plans and Mr. Marples' mania for decentralising. Some of the BTC work done recently—such as the little pre-fab stations in the Midlands—is very good indeed. Such success deserves successors.

MORE CONCRETE IMAGE

The brand image of Merrie England has changed in the last few months. The Central Office of Information

have made a film about Britain without benefit of thatch or capstan; the British Travel and Holiday Association have published an issue of *Coming Events* full of modern buildings (it made me positively homesick for the olde stuff they do so well), and now Stevenage's pedestrian precinct has turned up in a television commercial. Don't ask me what the commercial was selling: the absence of familiar suburban streets or cyder-bedecked cricket grounds disturbed my powers of concentration.

*

A few weeks ago the Rank organisation was doing the same sort of thing, with its *Look at Life* film about Coventry and the new cathedral—"one of the architectural wonders of the H-bomb Age." Now the same series presents a film about Brasilia that is just as breezily superficial, socially uncritical and sensation-seeking. But in spite of the film's deadpan, dumb-blond optimism, the realities of Brasilia cry out for themselves. The architecture is supremely slick, elegant, daring, uncompromisingly 20th century, etc., but bleak in its repetition, and very barren-looking—with its sparsely-populated rust-red open spaces. A bitter contrast, incidentally, to the shanty town where the labour force has squatted, filthy and squalid, but warm and alive. See this unconscious echo of *Mon Oncle* at YOUR local cinema SOON.

HARROWING PROSPECT

If you are a sensitive man you would do well not to look behind the Railway Hotel in Wealdstone in the not-very-distant future. Harrow council have decided to put a civic centre there. And because the town has such splendid traditional associations the new centre will, of course, be in the revoltingly traditional manner. UNLESS some of the

brighter local people get together and fight—just as the residents of neighbouring Stanmore are fighting for the abolition of neo-classical notions in their district.

*

There is still time to stop this absurd piece of keeping - in - keeping - with - nothing-in-particular. I suppose the council, who have yet to appoint the architect officially, would deny any knowledge of a plan to build in an olde style. But the block plan already prepared has on it more than a hint of the picturesqueness to be expected—and I'm told that its architect was chosen because he had done several town halls of the same kind. It is preposterous not only that the country's really dim-witted councillors still want this kind of building, but that there are architects available to perpetrate it. Surely there is *someone* on Harrow Council bright enough to point out to his colleagues that the scheme would make the civic dignitaries look ridiculous. Even that visual hell-hole, Slough, is to be graced with one of the best new town halls in the country.

NO SNAP JUDGMENT

If you don't see any pictures of the Saarinen Embassy library in architectural magazines for some time to come, you can blame the librarian herself. She is keeping up a fight against photographers—except those for the glossies, who hardly count, because she is a Saarinen fan and believes that the library will be one of the best interiors in the building. It is bad manners, she maintains, to photograph an architect's work before it is finished. Let's hope the delay will be worth while.

BRIEF CHRONIC

Dorothy Goslett, who has been organising the immensely successful Design Research Unit since 1946, is now passing on some of her experience in a book on *Professional Practice for Designers*.^{*} She deals with everything from office management to legal problems and insists on the importance of proper briefing from the client (*laughter*). This is just the thing for the enthusiastic young man, though it's not likely to be a good substitute to applying for a junior position in an established office and actually watching the machinery in action.

^{*} Batsford 30s.

OLD SPANISH CUSTOM

I've heard one or two people asking why the RIBA Distinction in Town Planning has been awarded to someone who has never done any town planning: Eric Lyons. The answer is that the award is also given for housing layout. Isn't it time the RIBA got their views straightened out about this award? When it was inaugurated, just after the war, it went automatically to any Fellow who was also a full member of the TPI. Later we were all given a chance to apply for the award if we felt we deserved it and could submit evidence of planning work done. And then, before we had got around to putting our names in the hat, the RIBA decided the Distinction would be available only to those they particularly wished to honour and the scope was enlarged e.g. the inclusion of housing layouts. There is now no way of telling—as if you cared—which of the recipients listed in the Kalendar got the Distinction for distinction and which got it with a packet of tea. Now, surely, is the time to institute new awards in these quite separate fields of town planning and housing layout.

*

Meanwhile, congratulations to Mr. Lyons whose latest (as yet unbuilt and unpublished) housing layout is an ingenious combination of private courtyards and open landscaping, and deserves a prize itself.

TOWER BLOCK?

Hot on the news that a block of New York flats is to have slippery window sills to keep birds on the hop comes the even more interesting revelation that a British building—the market hall to be built this year in Shrewsbury—is to house ten pigeon perches in its open clock tower. “The town has a pigeon problem,” says the architect, David Du R. Aberdeen, “so it seemed a good idea to use the birds decoratively and to make the tower look like an ever-changing abacus.” The town corporation is not amused by this pleasant feature and may ask for the sides of the tower to be filled in. “But don't say so,” a local worthy said to one of my colleagues, “because we like the rest of the building very much.”

ASTRAGAL



New Stockholm is the subject of an exhibition opening today at the Building Centre, London. Above and below are two illustrations from it: the municipal and State Tax Offices, above, and typical housing set amongst woodland.



LETTERS

*James L. Caldwell, F.R.I.B.A.,
A.M.T.P.I.*

*D. A. S. Webster, A.R.I.B.A., M.A.,
A.M.T.P.I.*

Cecil C. Handisyde, A.R.I.B.A.

D. White

*Leonard C. Howitt, F.R.I.B.A.,
M.Arch. (Liverpool), M.T.P.I.*

Theo Crosby, A.R.I.B.A.

Eric de Mare

G. E. Cassidy, F.R.I.B.A.

E. B. Jones

A. J. Harris

Two Tiers

SIR: From time immemorial the press have enslaved themselves to the great goddess of "freedom." No one can influence their pronouncements, assist them in assimilating facts or dare to suggest editing the editors' masterly mis-statements in the cause of sensational or provocative news at any cost. We all suffer in silence while it continues in the national press, but when the privileged writers in our professional press abuse this artists' licence, then the turning point has been reached.

My outburst is prompted by the leading editorial in the issue of December 22, not primarily to defend the proposals, but to correct the several mis-statements.

Paragraph 1. Not ONE allied society is involved in this endeavour but the whole Allied Societies Conference.

Paragraph 2. The inference of poor relations in the profession must be apparent only to the editor. Obviously if the profession is intended to produce all stages of architectural work only through the efforts of Bachelors of Architecture and nothing less, then a review of the financial side of office administration must follow as a by-product, not only in small provincial offices but central and local government offices as well. Architects like many others will be forced into joining the irresponsible bandwagon of inflation.

Financial embarrassment. No. Frustration. Yes. Even if handsomely paid, fully qualified architects could never be produced by our university system in sufficient numbers to cope, nor should they be expected to waste their training on office chores, even if they could.

Paragraph 3. Another correction. For the benefit of the editor, the advocates of the two-tier profession are those who first suggested the addition of two "A"-level subjects for entry, and they have certainly never answered the editor's searching question.

Of course there is plenty of work for all classes of assistants, but in the suggested new arrangement all these various specialists will be operating their own businesses, even

the tracers and draughtsmen will be free to advertise their services inviting competitive offers from the queue of fully qualified victims.

The crux of the whole issue is this academic approach so completely out of touch with practical application. Not a new problem in architecture. Perhaps the editor could explain how he would recruit the personnel he enumerates, when the bottom rungs of the ladder have been cut off, leaving the enthusiastic aspirant floundering in the mud, with two tiny rafts labelled "A" just out of reach.

Finally, most of us have now accepted the new entry standard as a progressive step in the right direction, but it cannot be considered in isolation to produce a balanced or any more efficient profession. The sketch pads will remain filled with great conceptions but no one to translate into bricks and mortar—sorry, concrete and steel.

JAMES L. CALDWELL

Watford, Herts

SIR: Your Editorial of 22nd December, 1960, bilks the issue that there are a great number of extremely competent men earning their livelihood as senior members of the teams in architect's offices up and down the country who are at present treated almost as outcasts by the professional Institute.

We "poor relations" in the provinces want to see a proper scheme of better training for our locally recruited assistants introduced as a matter of urgency. This should be linked to the State education system through the technical colleges or colleges of further education, not to the schools of architecture which are located at certain centres only and do not cover the countryside adequately.

Courses already exist for trainees in the building industry which, with some modifications, could well form the basis of a useful technical education for architects' assistants up to higher national certificate level. A new RIBA exam. for entry to a technician class of membership seems perfectly feasible and it is high time our otherwise unqualified assistants ceased to be ignored and were given a status within their chosen profession. The "status" would not be that of a qualified full member, but of an assistant who had reached a recognised level of proficiency in technical subjects. Many of these men now earn four-figure salaries and their earnings would be increased if they were provided with better training facilities. Hints of "cheap labour" are despicable and what is wrong with the "back-stairs" anyway to boys who, for many good reasons, are unable to aspire to use the grander one?

These proposals, put forward by "one of the RIBA's Allied Societies," far from being reactionary, are far sighted and courageous. There are many of us in the provinces who consider the only thing "half-baked" about all this would be to reject these proposals out of hand without giving them a full airing and very serious consideration.

D. A. S. WEBSTER

Devizes, Wilts.

Roof-top Boilers

SIR: In your issue of December 29 an *ASTRAGAL* note states: "The LCC intends to repeat this form of heating on future large estates with one interesting improvement. It hopes to put the large oil-fired boiler houses on rooftops and thus to do away with their usual expensive foundations." I can hardly bear to wait for the *AJ* Working Detail of the sky-hooks which are to support these large boiler houses without foundations!

Seriously, however, the proposal is of very considerable interest and one would like to know more. It is easy to see some possible advantages and to think of some possible snags. Is the main reason economy or convenience? Will a high chimney appear as a new vertical feature above the roofs? Is the noise problem better or worse? Has a position part of the way up the building been considered and rejected? Does the main oil storage also occur at roof level? Presumably the LCC has done some detailed investigations into advantages and disadvantages and it would be most helpful to other architects if the results of such investigations could be made generally available *now*. For once we might get a new idea discussed and perhaps used generally quite quickly without waiting the usual 5 to 10 years for the result of a piece of original thinking to spread to the profession at large. Can the *AJ* follow up and give us a technical article on the idea?

CECIL C. HANDISYDE

London, W.C.1

Insulation

SIR: Following upon Mr. Kyte's letter (*AJ*, November 24) advising householders to take dry rot prevention measures after the recent floods, may I suggest that advantage should be taken of the opportunity to insulate the floor?

Suspended floors always present a problem when occupants are considering house insulation, as nothing can be done without first taking up the floor boards, unless, of course, one can gain access from a semi-basement. The measures advocated by Mr. Kyte include taking up the floor boards, and I suggest this would be the very time to add reflective insulation to the floor. This method of insulation can be fixed easily and at relatively little cost.

D. WHITE

Croydon, Surrey

Reply to Howitt

SIR: I did not answer Mr. R. Bridgman's letter of December 20 to *The Daily Telegraph* (reproduced in your issue of December 29) because it appeared to be based on a complete misunderstanding of the issues involved and to bear little relation to my contention that municipal architects should not be subservient to municipal engineers. The kind of relationship between architects and consultant civil engineers (or structural engineers) which Mr. Bridgman writes about does not enter into this argument and there is no question of stimulating a feud between

our professions. But to the salaried architect in local government the question of who should be the chief officer is certainly no "petty matter."

LEONARD C. HOWITT

Sale, Cheshire.

Unexpressed Water Tanks

SIR: Please explain to your boneheaded tech. man that if you make a roof out of aluminium pyramids with the tierods at the bottom the pyramids tend to fill with water. Dr. Makowski solves this by applying a flat sheet roof to the top (true, more rigid) but flat top and pyramids below is not ethical. So we preferred simple drainage gutters between pyramids, honest expression of interior exteriorwise. The partitions work better too.

Furthermore, when stealing highly unauthorised scoop, please include credit to Frank Newby of F. J. Samuely & Partners, who thought of 8 ft. pyramids after we had found original Makowski 4 ft. unit (as at Lagos) too small in scale to accommodate a water tank.

THEO. CROSBY

The Technical Editor replies: The second paragraph of Theo. Crosby's letter makes it clear that the real motive for using his structure as he did was, after all, æsthetic (or, as Theo. Crosby would put it, "ethical"); and that, therefore, our comment was fair. It is not necessarily a crime to vary structure to meet an æsthetic requirement, but it is a mistake to be coy when you have done so. The scoop was not stolen.

Work Mania

SIR: Here we go again. Says SPUR: "The general need is for more homes in the centre, more jobs in the suburbs." Why more jobs? The idea that everyone must "work" is getting us all down. By "work" is meant, not so much constructive, creative activity as going to a depressing place far from home to do things all day which give one no pleasure, are often futile and could, in any case, be done much better and quicker by machines, the purpose of this activity being primarily to obtain a few of those tickets-for-goods called money which are now kept rigorously in short supply by a power-seeking and self-righteous oligarchy. (If there is no shortage of consumer tickets, why ad-mass, Never Never, export warfare, ubiquitous debts, restrictive practices and vast unsold stocks?) Work has become a crazy obsession. What are machines for but to do the chores? If you plan for work you will merely make a different, but just as dreary and muddled, labour camp as the existing one.

When reading anything anywhere about architecture and planning these days my spirit sinks. The talk is all so anxious, earnest, complicated, confused and self-contradictory. We never get to the core of the problems because aims and assumptions are never questioned; they are taken for

granted. Planners are not faced, as they all think, merely with problems of land use, but with much deeper ones which they just won't discuss. Those problems are basically philosophical and then, in the practical sphere, purely financial.

A famous French general in the First World War remarked: "If you don't quite know what to do next, ask yourself a simple question: 'What is the objective?' Then you will know what to do." If our objective is work in the sense of compulsory, joyless, needless toil called Full Employment for ever, we must all be crackers, and however hard we try to tidy up the mess we are bound for decadence and doom. A more reasonable objective might be leisure, which, in the end, is only another word for freedom.

We don't need work: what we need is more money and plenty of time to enjoy it and to use it for the right purposes—a fundamentally right purpose for a start being proper education for everyone, old and young.

ERIC DE MARÉ

London, W.11

Dated Material

SIR: Could you please give some publicity to the plea that all advertising material circulated to architects should be clearly dated. I am engaged in sorting a mass of such material, a task made almost impossible because of the difficulty of recognising out-of-date material.

G. E. CASSIDY

Richmond, Surrey

Misplaced Zeal

SIR: I dislike extending correspondence over a fair limit but I should like to make the point to your correspondent Mr. Miller that at no stage did I praise the present housing developments in Henley. The only point I raised was that in presenting the facts it would be much fairer to have included photographs which were more representative than those presented with your article on this problem.

Perhaps if Mr. Miller could reread my earlier letter he would note that we are both in the same camp but I have purely tried to bring a measure of sanity to the issue under dispute.

E. B. JONES

Maidenhead, Berks.

Channel Bridge

SIR: Models of large suspension bridges are tested in wind tunnels to counter the danger of flutter or, more ponderously, aerodynamic instability.

A bridge such as that illustrated in Mr. Nigel Seymour's article (AJ, December 15, 1960) runs no such danger nor, indeed, any other major danger from wind.

A. J. HARRIS

London, S.W.1.

NEWS

HOOK NEW TOWN

First reports of Mark II Town

It is understood that the LCC project for a New Town at Hook, which had to be shelved (on this site at least) because it was not acceptable to Hampshire County Council, is currently being reviewed for possible publication.

The project has been based, it seems, amongst other things, upon a careful study of the common characteristics of the early post-war New Towns in this country, and the conclusion from this that the creation of self-contained separate neighbourhoods of low-density housing, has been a planner's preconception which has not proved acceptable. The project, therefore, has apparently adopted roughly twice the density of these earlier New Towns, without any loss of standards in terms of open space, privacy, daylight and so on. This, it seems, has brought in its train a specifically urban concept of environment, new to the New Towns, a compact city set in a garden (rather than the continuum of the garden city), with the entire population within easy walking distance both of the centre and of open country (not more than 10 minutes for anyone) based on a complete separation of pedestrians and traffic. The team working on the project also believed that with proper initiative the centre is capable of being developed as a focus not only for the life of the community, but equally for the surrounding area up to a radius of about 15 or 20 miles. This centre would have a catchment population of a 4-million or more within this radius. The centre was planned to grow with the town rather than be almost the last development to take place.

The design team also took a fundamental view of the problem of the motor car, that an ownership rate of one car per family must be assumed as a minimum, and that this implied properly designed roads with multi-level intersections at all important junctions, and obviating traffic lights and the right-hand turn. The centre was apparently planned to cater for about 8,000 parked cars, with all pedestrian movement above on a platform bridging a small valley, with flats as well as offices, shops and public buildings rising out of it. This multi-level method is the only way of preventing town centres being surrounded by a sea of cars, divorced from the surrounding residential areas, and is another means of establishing a continuous and compact urban environment.

The team also considered the rich development of the surrounding landscape, including a three-mile-long series of artificial lakes on the west side (bordered at one point by a large stadium) and parks and playing fields elsewhere.

This may sound very utopian, but it seems that the team tested the cost implications in detail at every stage, and found the project perfectly valid even in present economic terms.

The LCC have, of course, now adopted the alternative suggested by Hampshire of expanding Basingstoke, Andover, etc. This solution was described by one bitter fundamentalist in the planning field as the authority "selling its birthright for a mess of cottages." But in view of the New Town projects likely to get under way soon in the Birmingham, Liverpool-Manchester and Newcastle areas, there is no doubt that the LCC could make a most valuable contribution if a comprehensive report of the Hook project were published in the next few months. In the long term, too, there is no doubt that the LCC itself would benefit, since on a long-term basis it still has a chance of finding another site for this project.

GLASGOW

Anti-planners Attack

The Scottish Life Assurance Co. are appealing against the Glasgow Corporation's refusal to allow them to redevelop their premises in St. Vincent Street, Glasgow, at a plot ratio density of 5.9 to 1. The Scottish Department of Health thought the Appeal important as challenging major principles of planning and appointed a special commission to hear the Appeal instead of the usual inspector. The Secretary of State apparently regards the Appeal as a test case.

The Assurance Company bought neighbouring properties with a total existing plot ratio of over 4 to 1 and first slapped in a proposal to build at nearly 7 to 1. The Glasgow Corporation had in 1955 set a plot ratio over the central area of 3.5 to 1 (the experienced LCC is at present re-zoning much of its 5 to 1 to 3.5 to 1), so after long negotiation the company put in an amended scheme for 5.9 to 1. This was refused on the obvious ground that it would cause congestion.

The hearing of the case began on January 22, with the general manager, Mr. Wallace, saying that 5.9 to 1 was the minimum ratio for a financial return and honestly admitting that he had not thought about Glasgow's planning interests. The company's architect admitted to not believing in planning controls, he didn't agree that a high plot ratio would cause congestion, he did not understand daylighting control, and he thought artificial light good enough. He claimed to need a high plot ratio in order to mask the gable end walls of adjoining property. Evidence for the Assurance Company was also given by Mr. Cheshire, an estate agent surveyor from Birmingham, who showed plans of the new centre of Birmingham with many buildings over a 6 to 1 plot ratio, some going up to 9 to 1. He claimed that Birmingham had no plot ratio control and no daylighting control. Professor J. S. Allen, the past president of the Town Plan-

ning Institute, is to be called by the company as an expert witness later in the hearing.

Housing Contract Awarded

The Glasgow Corporation approved last week the offer of Holland & Hannan and Cubitts (Scotland) Ltd. to build 400 maisonettes in 19-storey blocks in the Gorbals. The design, by Sir Basil Spence, includes small, high level garden platforms for each maisonette. The tender price is £1,310,535, approximately £3,276 a dwelling.

LAMBETH MA

Church Architect Recognised

The Archbishop of Canterbury has conferred the Lambeth Degree of Master of Arts upon George G. Pace, of York, in recognition of his work as an ecclesiastical architect. Aged 45, Mr. Pace has been concerned with the rebuilding of Llandaff Cathedral and was architect for new cathedrals of Sheffield, and Ibadan, Nigeria. He is consultant architect for the Dioceses of York, Wakefield, Bradford and Sheffield.

GULBENKIAN GRANT

Architects and Archeology

Last week the Calouste Gulbenkian Foundation announced that £70,000 had been granted to the UK and Commonwealth during 1960. Of this, £2,000 per annum for five years had been given to the Institute of Archaeology of London University for

the academic part of a post-graduate two-year course for architects wishing to specialise in the care and restoration of ancient buildings.

OFFICE LIGHTING

Improved Illumination

The Offices Act has, of course, now been passed, and will come into effect in 1962, and we can expect that the required standards will include some minimum level of artificial illumination, in the same way as the Factories Act. (The current regulations laid down by the Factory Inspectorate are, incidentally, those specified 20 years ago and now hopelessly inadequate.) A bigger stimulus to improved standards in offices, as far as the architect is concerned, will be contained in the revised Code of the Illuminating Engineering Society, due to be published in March. In the case of offices, the recommended level will rise from 20 to 30 lumens per square foot. This situation has caused the British Lighting Council to put on an exhibition of office lighting at Lancaster Place, W.C.2. Although the design of the display may seem, in the case of some exhibits, slightly amateur to the architect, the general standard is a considerable improvement on earlier exhibits put on by the Council. Of particular interest is a small demonstration office in which the level of illumination can be adjusted by the visitor and tested in terms of various types of office work. This display may be slightly misleading since, in practice, levels of illumination are not seen in isolation but in relation to those of surrounding areas or the outdoors, and if you change from a high level to a low one, you should really allow anything up to 20 minutes for your eyes to adapt down before making any judgment. But this display has the virtue of demonstrating that, in terms of the working environment, levels much higher than current practice are very acceptable, at anything from 100 to 300 lumens per square foot. Such levels, of course, are almost bound to be approached in the future, but the associated problems they create, in terms of lighting technique to avoid glare, to get rid of the heat load and to cope satisfactorily with the maintenance problem have yet to be completely solved.

And some better answer must be found than the even, shadowless and colour-distorted environment produced by typical current methods. In other words, pure engineering must be balanced by a proper respect for the need to create an environment which is subjectively satisfactory in all respects.

WEST BROMWICH

Precinct or High Street?

West Bromwich's Labour Borough Council recently agreed in principle to a development company's £6m. pedestrian shopping precinct for the town centre, and called in a firm of chartered surveyors, Messrs.

DIARY

British Furniture Show, 1961, Earls Court, 10 a.m. to 9 p.m.

FEBRUARY 1 TO 11

The New Stockholm at the Building Centre. Photographs, models and drawings of new building and town planning developments in Stockholm.

FEBRUARY 2 TO 22

Woodworm and Dry Rot, free lectures and film shows organised by Woodworm and Dry Rot Control Ltd.,

Wigan, Brackett Arms, 11 a.m.

Portadown, Imperial Hotel, 11 a.m.

Rochester, The Bull Hotel, 11 a.m.

FEBRUARY 7

Coventry, Leofric Hotel, 6 p.m.

FEBRUARY 8

Social Building in London, 1890-1914, Informal illustrated talk by D. M. Gregory-Jones at the A.A., 6.15. Tickets not required.

FEBRUARY 8

History of the Immediate Future. Dr. Reyner Banham. R.I.B.A., 66, Portland Place, W.1, at 6 p.m.

FEBRUARY 7

Cheshire Gibson & Co., to investigate its merits. These surveyors come from reactionary Birmingham (see the Glasgow story above) and they proceeded to attack both the theory and the economics of the project, according to a report in *The Times*. The surveyors think that the High Street is in the best English tradition and that it has yet to be shown that it has not stood up to modern conditions or can be materially improved upon. Architect planner Max Lock, who was asked to report by the development company, has pointed out that in the motor age the true shopping tradition is the bazaar: the narrow pedestrian street. The Borough Council are now seeking further advice.

ARCHITECTURE IN TRANSPORT

The Alfred Bossom Lecture

Last week F. F. C. Curtis, who is architect to the British Transport Commission, gave an intelligent and far-sighted survey of the contribution that the profession can make in solving the many problems of transport in this country.

He stressed that the problem of coping with modern transport is made especially difficult by the enormous space requirements. For instance, the horizontal spread of car parks was a luxury which could no longer be tolerated and Mr. Curtis considered that the time was near when each city centre would have a ring of multi-storey car parks. These will become a typical feature of our landscape (like the watch towers which ringed the cities in the middle ages); here he felt was a real challenge for the architect. In the planning of roads and car parks, just as much skill was required to achieve sensible and economical design as in the creation of an efficient building without excessive and wasteful circulation space. He said that in this country we had not the space to throw away, and that we could not go on losing agricultural land by housing 100 people on an area where 1,000 could live in comfort, as well as in a more neighbourly way. Such an attitude could rescue architecture from drowning in a turbulent sea of chaotic transport, and could preserve the countryside from becoming a wasteland between motorways.

Turning to the railways, he pointed out that many fine Victorian buildings, particularly the large terminal stations, were real Victorian masterpieces which had gradually deteriorated into slums. To pay for their redevelopment it was necessary to exploit fully the opportunities of property development. Many large stations in London and elsewhere occupy positions ideally suited for this purpose. The creation of large new building sites over land occupied by the railways offered the chance for rebuilt railway stations to become the focal point of fine new urban centres housing a variety of human activities. It would, of course, be essential that this development be comprehensively planned.

Having surveyed the achievements of the

present century by such men as Holden, Pick and Bonatz in Germany, he examined some of the interesting current work of the architect in this field in Britain and abroad, including not only railway stations, air terminals and ports, but also some recent passenger ship designs. In closing he stressed that he had interpreted the term architecture in a loose way, ignoring the boundaries between planning, engineering and architecture. These boundaries were, in his view, often indistinct. Every architect must be an engineer and every engineer with a creative vision enters the world of art.

LMBA

Building for Export

The building industry has a very great role to play in the drive to secure more export markets which is now going on, said R. H. M. Thompson, parliamentary secretary to the MOW, when speaking at the London Master Builders' luncheon last week. Over five years the value of work overseas had increased by 80 per cent to £120m. A large construction contract overseas, he pointed out, opens the door for a whole host of additional potential exports. Mr. Thompson also announced that the Minister of Housing will shortly be making standing bye-laws under the powers of the Public Health Miscellaneous Provisions Bill, 1960, which will replace the local bye-laws under the Local Authorities Acts.

INSTITUTION OF STRUCTURAL ENGINEERS

Aerated Structural Concrete

A paper was delivered to the Institution of Structural Engineers on January 12 on the use of reinforced aerated lightweight concrete members by Messrs. Short and Kiniburgh of B.R.S. This was largely a report on work proceeding at B.R.S. to provide advice for the committee dealing with the projected C.P.116 Code of Practice for Pre-cast Concrete Structural Members. The meeting was particularly well attended giving some indication of the interest of the building industry in this medium of construction. Aerated concrete is made at several different centres in England and Scotland and further developments are in hand, altogether several million pounds must have been invested in its production. In view of the importance of this subject, the Journal will be publishing a survey of structural aerated concrete in due course.

MINISTRY OF HEALTH

Type Plans for Hospitals?

At a Press conference held on January 17, Mr. Enoch Powell, the Minister of Health, announced what he described as the beginning of a new era in the hospitals building programme. The main points in justification

of this were, first, that hospital boards have all been asked to plan not on a two-year programme as at present, but ten years ahead. This is an important improvement. Second, that they can do work without prior approval from the Ministry up to a value of £60,000 instead of £30,000 as at present. Third, that a new series of Hospital Building Notes is shortly to be issued. This will deal with the different parts of the hospital and will take the form of type plans. It is intended to fix cost targets on these plans and it is apparently the intention of the Ministry to pass schemes which conform with these published solutions and to the cost targets which apply to them without the need to submit detailed drawings. This appears to set a high premium on design conformity. Bearing in mind that, to the best of our knowledge, the Ministry have not based their Notes on anything more substantial than a consensus of current opinion, this seems a questionable method of exercising cost control.

Hospital Programme

Last week Enoch Powell, the Minister of Health, announced six new hospitals and 29 major building schemes which are to be started by 1964-65. This is the first time that in announcing a selection of major schemes a provisional latest starting date for the work has been given. The Minister now intends to give Hospital Boards starting dates for the 140 schemes which have previously been selected but are still being planned. This should help achieve continuity of work. The new hospitals will be at: Basildon (345 beds, £2m.); Exeter (£2-£24m.); Fulbourn (320 beds for psychiatric patients, £1m.); Stevenage (400 beds, £2-£3m.); Abergavenny (first stage, 192 beds, of 400 bed hospital); Pontypridd (128 beds for long-stay geriatrics with 30/40 bed geriatric and acute psychiatric units at nearby Church Village Hospital).

In answer to a question in the House of Commons Mr. Powell gave the following figures of expenditure: 1961-2, £31m.; 1962-3, £30m.; 1965-6, £50m.

COMPETITION

Civic Centre for Motherwell

A two-stage competition for a civic centre for Motherwell and Wishaw (population: 73,000) is announced by the Town Council. The assessor is A. G. Sheppard Fidler, and the competition will be in two stages. The centre will include two Public Halls, municipal offices and a small shopping development. In the first stage competitors will be expected to submit a block plan to 1/500th scale and plans, sections and elevations to 1/32nd scale; all drawings must be on dye tint prints to the same size. In the final stage, for which not more than six competitors will be chosen, drawings will be to 1/16th scale except for two drawings of exterior and interior details of $\frac{1}{2}$ in. to 1 ft. scale. Each of the finalists will receive a premium of £500 and the winner will receive £1,000.

BUILDING CENTRE

Forum on Floor Finishes for Hospitals

Though well attended, this forum went adrift because the first speaker, Alexander Gray, of Watkins, Gray & Partners, was insufficiently briefed to appear before so specialised an audience. Mr. Gray was very dogmatic, saying that, on hospital floors, there was really no scope for argument. Three types of floor are wanted he said: for the theatres, treatment rooms and casualty departments you must use terrazzo; for the kitchens and bathrooms, quarry tiles; and for the wards and general purpose areas, thermoplastic tiles. His motive for these choices was, apparently, that the governors of the new Guy's Hospital ("the largest single hospital block since the war") had gone into the matter very carefully and were convinced of their rightness. It was, of course, the third choice which hypnotised the audience. Thermoplastic, Mr. Gray said, is a well-tried material in hospitals and is much cheaper than alternatives, costing 13s. per sq. yd. for the material and 37s. per sq. yd. laid with a screed. Apart from its other qualities, it was good at resisting buras. This was particularly important outside maternity wards as expectant husbands stub out their cigarette ends on the floor as they walk up and down. One following speaker pointed out that thermoplastic varied between very wide limits and asked what type was intended by Mr. Gray; and another asked why the screed and laying price was so high; but on these vital points no further information was forthcoming.

Mr. L. R. Elgood, of E. J. Elgood & Partners, the flooring contractors, the second main speaker, suggested that the hospital flooring problem was more complex than Mr. Gray seemed to think. He had some

good points to make on the value of asphalt and latex cement (the latter incorporated in p.v.a.- or bitumen-based compounds) as underlayments for making good an existing floor prior to putting on some other surface.

Robert Radford, of the Architect's Department of the Ministry of Health, was the third speaker and he outlined his Ministry's approach to cost planning in hospitals. One detailed suggestion which he made was the value of using an area of Wilton carpet in the main entrance hall to trap grit and prevent it from being carried all over the hospital.

The discussion kept reverting to the unfortunate Mr. Gray. Questioned on whether he had considered wood block, he said that wood floors had quite gone out of hospital work. Thereat it was pointed out that the King Edward VII Fund were, at the Ministry's suggestion, carrying out elaborate tests on the use of sealers on wood floors for hospitals. The choice of thermoplastic was questioned on the ground that it was difficult to maintain and apt to be noisy; but noise, Mr. Gray thought, was no longer a problem, now that we are allowed to use acoustic materials on the ceiling.

BOOK REVIEW

"The Landscape of Roads"
by Sylvia Crowe (Architectural Press, 18s. 6d.)

This book is inspired common sense. Open it anywhere, and you will find a point on the design or function of roads made cogently, lucidly, patiently and without any kind of partisan feeling. Without, also, any of the reaction that Sylvia Crowe could legitimately feel towards the administrators and engineers of the Ministry of Transport. This is in one way a record of her own and landscape architecture's years in the wilder-

ness, and it is ridiculous that someone who so clearly has the rare combination of imagination and hard-headed practicality should have been denied the chance to assist on a single major road scheme.

The Landscape of Roads could have been a Corbusian snarl at fate. It is, instead, one of the very few sane books about a subject which, I am sure, engages deeper and more violent emotions in an Englishman than any other. He may be placid and unruffled to the wife, but put him behind a steering wheel and he becomes an amalgam of Don Juan and Mephistopheles. Unwilling or unable to identify himself with places or people, he identifies frantically with his Vauxhall Victor; and woe betide the man who ignores his car-pride either in particular on the 22 ft. carriageway or in general by suggesting that there may be circumstances in which the endless multiplication and circulation of these two legged and four wheeled *affaires* may need to be regulated. As the owner of a pocket-draining, uncomfortable but (originally) incredibly handsome car, *mea culpa*.

All this is a roundabout way of saying that everyone ought to read this book, not simply the road technicians at whom it is directed. It brings the whole thing down to being a matter of relationships and principles instead of expressing a bundle of conditioned reflexes, without temporising, and without obscure jargon. This is a real literary gift, and used to be a very English one. Now, Miss Crowe stands head and shoulders above the worthy babblers about "amenity" and "pleasant surroundings" and "respecting the landscape".

Always in her examples it seems to be Germany and America who are the teachers and the M.O.T. who is the naughty rebellious child who says "shan't". To give three very simple and elementary instances, the adoption of rigid cuttings, breaking the landscape flow, the adoption of a rigid curtilage line, throwing away the chance of a to-and-fro relationship between road and



Left, interchanges planted and graded into the landscape on the Henry Hudson Parkway

Below, an interchange and service area on the M.1 during construction. The extent of the disturbance shows the need for a comprehensive grading and planting plan



landscape, and the open drainage ditches, adding one more parallel line to divorce road and surroundings more completely. In a civilised country where men looked outside their cubbyholes, this would be taken care of, because road engineers would be whole human beings, able to understand the overall problem and then to introduce the specialist into the team to deal with them. It seems a modest, natural request: it is borne out by photograph after photograph of work done in Germany and the USA by just such teams. Why is it that Britain, which in some ways knows so much more about how to make a success out of adjustment and relationship, still sports a set of greedy spoilt professional children, each with its pet domain, saying "mine"?

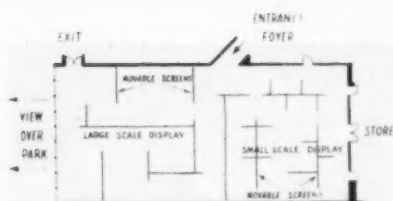
I have one reservation. It is one per cent of one per cent, yet in a way it is central. When Sylvia Crowe writes categorically about bridges "Visually as well as physically, the bridge should unite the landscape on each side of the road, while giving the minimum sense of interruption to the road itself," she is, I am sure, providing a rule of thumb. But it appears like a law, and the English are a notorious race of law-abiders: thinkers have underestimated this ovine quality again and again. On the M1 between Luton and Dunstable, the road is, rightly, a divider, the only hope of giving some form to a desperate characterless sprawl; a bridge here might well express division, not unity. And I can think of situations—just coming over the crest of an

escarpment to a view, for instance—where two or three bridges close together, deliberately interrupting the flow of the road (just as Sir Owen Williams's bits of mock-Vanbrugh so perversely do all the way through Northamptonshire) might lighten the contrast, augment the surprise, make the "oh" of ecstasy when you see the revealed landscape that bit stronger. Every bit of every view can be expressive in this way, and in the end, a lifeless landscape gardener's paradise is just as bad as a lifeless traffic engineer's paradise. The Picturesque landscapers understood this, and so of course does Miss Crowe; my harping on it ought not to obscure the effect of 99.9 per cent of this splendid book.

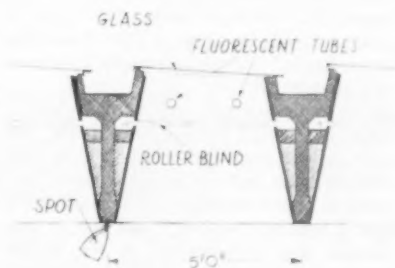
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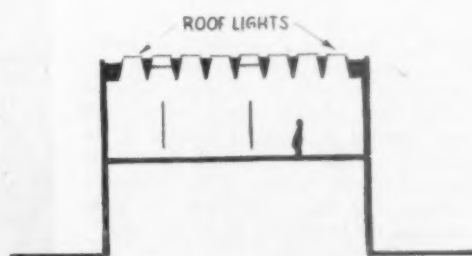
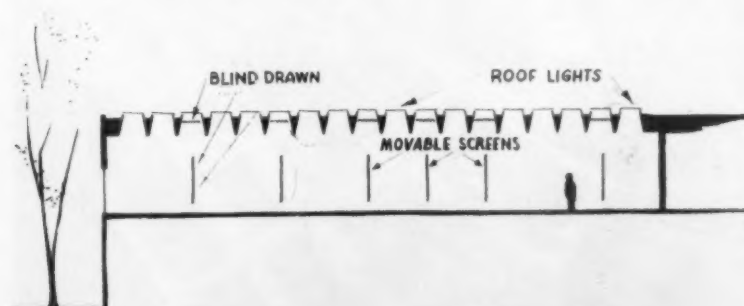
Commonwealth Institute Art Gallery



These plans and models and lighting details are of the new art gallery which is to form part of the new Commonwealth Institute in Holland Park, designed by Robert Matthew and Johnson-Marshall (job architect: Peter Newnham). These were on view at the old Commonwealth Institute in Kensington recently, when the bold claim was made that the gallery would "probably be the best in London" and is expected to be continually in full use for exhibitions of the work of the growing number of Commonwealth artists, and of the artefacts of the Commonwealth peoples. It is expected to be completed by the summer of 1962. Because of the great variety of kinds of things to be exhibited there, the gallery had to be exceptionally versatile, although it



will not have the storage and preservation problems of galleries housing permanent collections of great works of art. There will be a system of humidity and temperature control.



AA at Aylesbury

A recent exhibition
of design projects by students

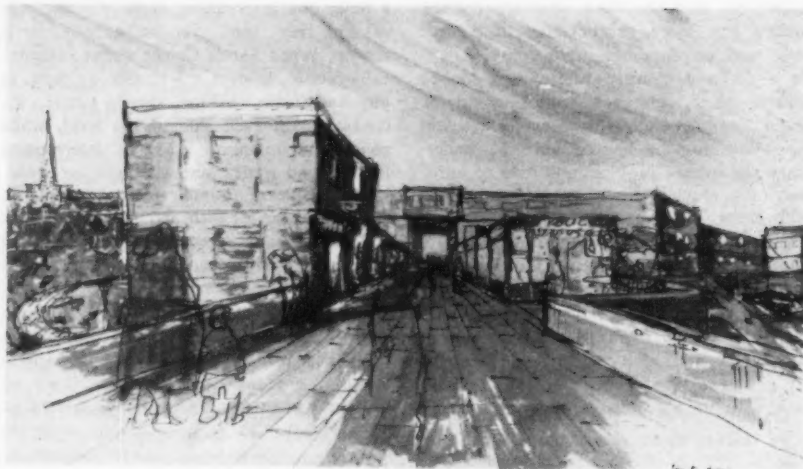
It is a normal part of the AA's curriculum for third year students to study the planning and design problems of a small town and its environment: what was new about last year's studies of Aylesbury under year master David Oakley was that the students' designs were the subject of a meeting and a week's exhibition in Aylesbury Town Hall at the end of last year, which was attended by local councillors and an unexpectedly large number of towns people, and aroused great interest.

This meeting was initiated by the Council through the County Planning staff, and all the following week local people were coming in, going round the six schemes which were presented, examining them in great detail—"Ah, I see old Jack's place is coming down then!" was the sort of comment to give students a pleasing sense of actuality—and, what may be in the end more important, discussing the purpose of town planning and ideas—about traffic and pedestrians, for instance—which were quite new to most of them. One councillor remarked to the organisers, "We'll be seeing these ideas of yours cropping up again at council meetings in the future": certainly a useful byproduct of a student exercise.

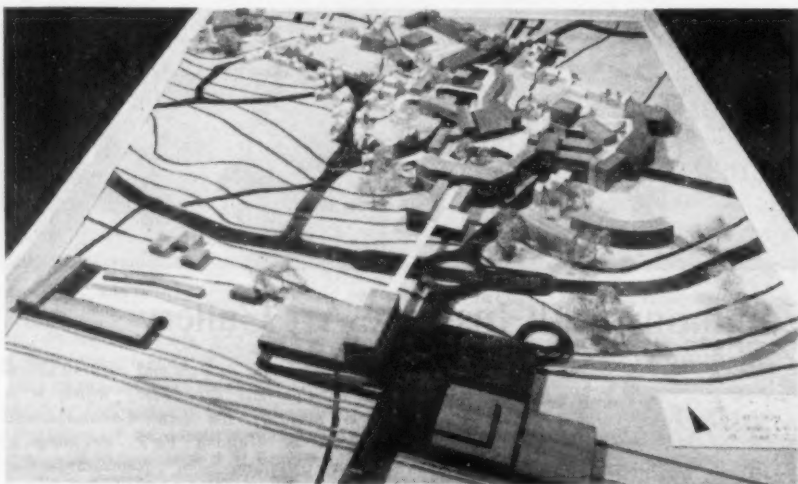
For as all the schemes made clear, Aylesbury today is a small market town being torn apart by its traffic problems, and in their different ways each group of students proposed to relieve Aylesbury of through traffic with a bypass or circular road and to concentrate new development in the present derelict area between the railway station and the present town centre, making the 18th century centre of the town, Market and Temple Squares, a pedestrian shopping area with parking and service areas behind, and using the fact that the old town stands on top of a hill to link it by pedestrian walkways to the new housing, shops and low level traffic roads between the hill top and the station.

Within this broad agreement, arrived at in discussions after all had taken part in a survey of the town, its problems, its amenities, its industries and links with the agricultural countryside round about, solutions varied from schemes which concentrated upon knitting as much as possible of the old fabric of the town in with the new, to root-and-branch schemes with travelators, heliports and high multi-storey car parks signalling the boundaries of the old town.

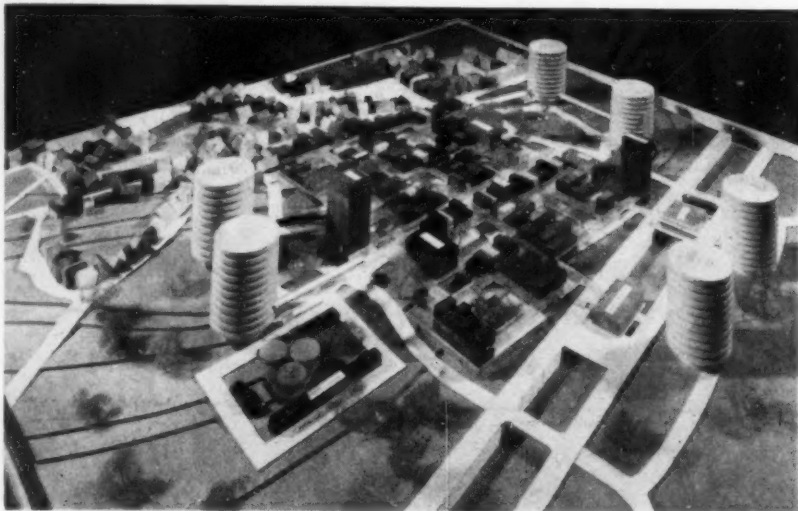
County Planning Officer Fred Pooley com-

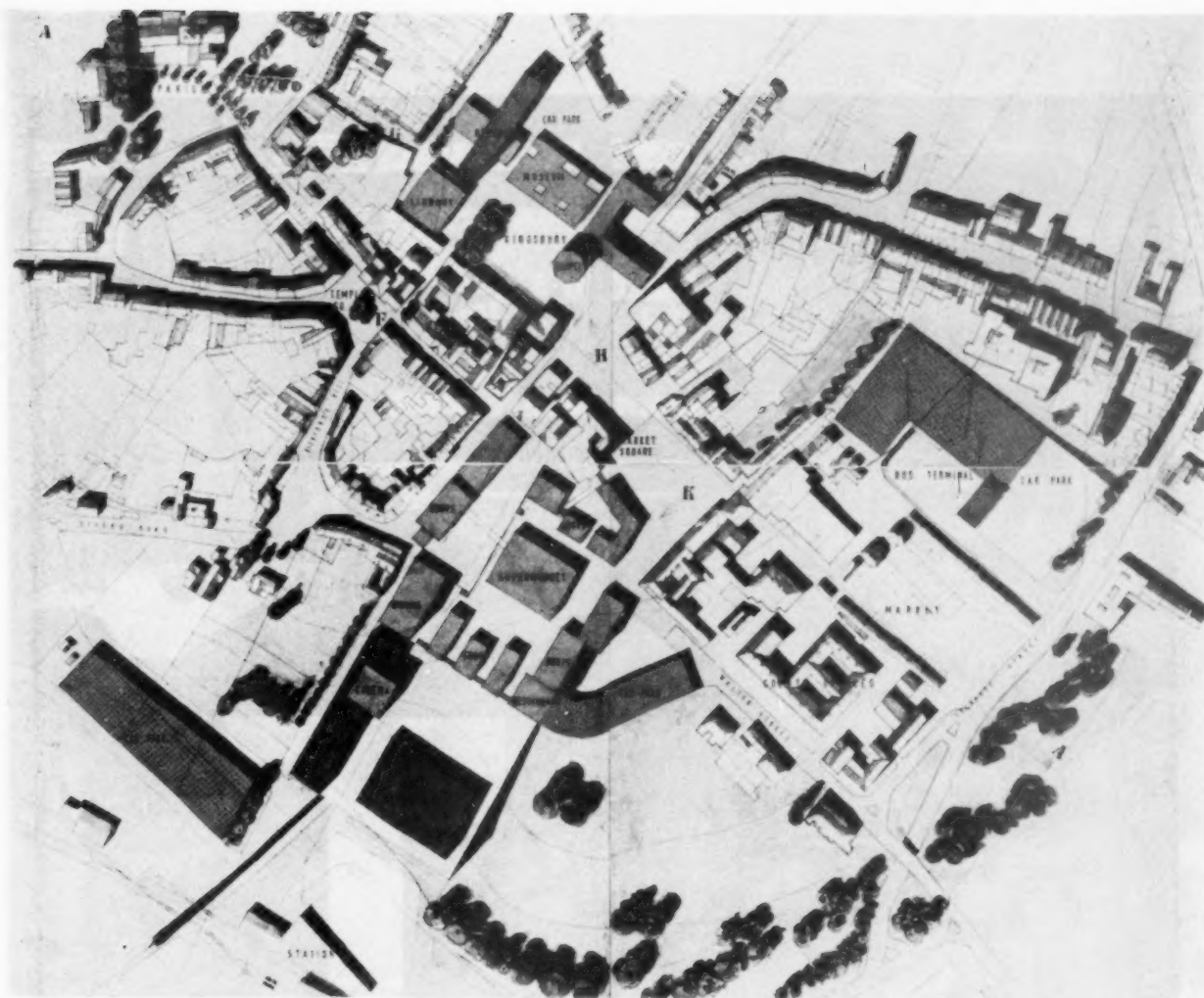


The scheme of Messrs. Hobson and Bridges features a raised pedestrian area and a new shopping area linking the station and the existing centre, above. The model shows how the pedestrian link spans the motorway bypassing central Aylesbury, below



Multi-storey parking blocks are placed around the centre in the scheme by Messrs. Farrow, Evans and Dunham. These can be reached from the two main roads into which traffic converging on the town is directed





The central area is redeveloped as a series of linked pedestrian spaces in the scheme of Messrs. Wild and Hodges

mented on the exercise: "We welcomed the publicity given to these schemes very much: they aroused a great deal of interest here in Aylesbury. Naturally some of the schemes were rather grandiose, root and branch solutions to problems, and I would like to see the students come back to Aylesbury now and get down to more detailed plans for our two main development areas, relating economic possibilities to architectural possibilities." Aylesbury, he pointed out, might well eventually spend £1 million on comprehensive redevelopment schemes but was "unlikely to have £12 million" to spend. Three of the six schemes presented are briefly illustrated here.

Scheme by Messrs. Wild and Hodges

Assessment: The main problem appeared to be recreating an environment the foundations of which are already present but being disintegrated by traffic chaos, decay and piecemeal development. Proposed to provide a tangential route for through traffic, linked with the town centre at a car and bus terminal to the east, with a secondary ring road, using existing roads. The Central area to be redeveloped as a series of linked pedestrian spaces, knitting new buildings in

the large decaying areas near the town centre with the old buildings worth preserving. The largest area ripe for demolition is between Market Square (K) and the station, where a new shopping and civic centre is proposed, using the contour of the slope to provide a multi-level platform with under-servicing. The new centre would not detract from the old but carry on the existing spatial organisation, with new building still in scale with the individual.

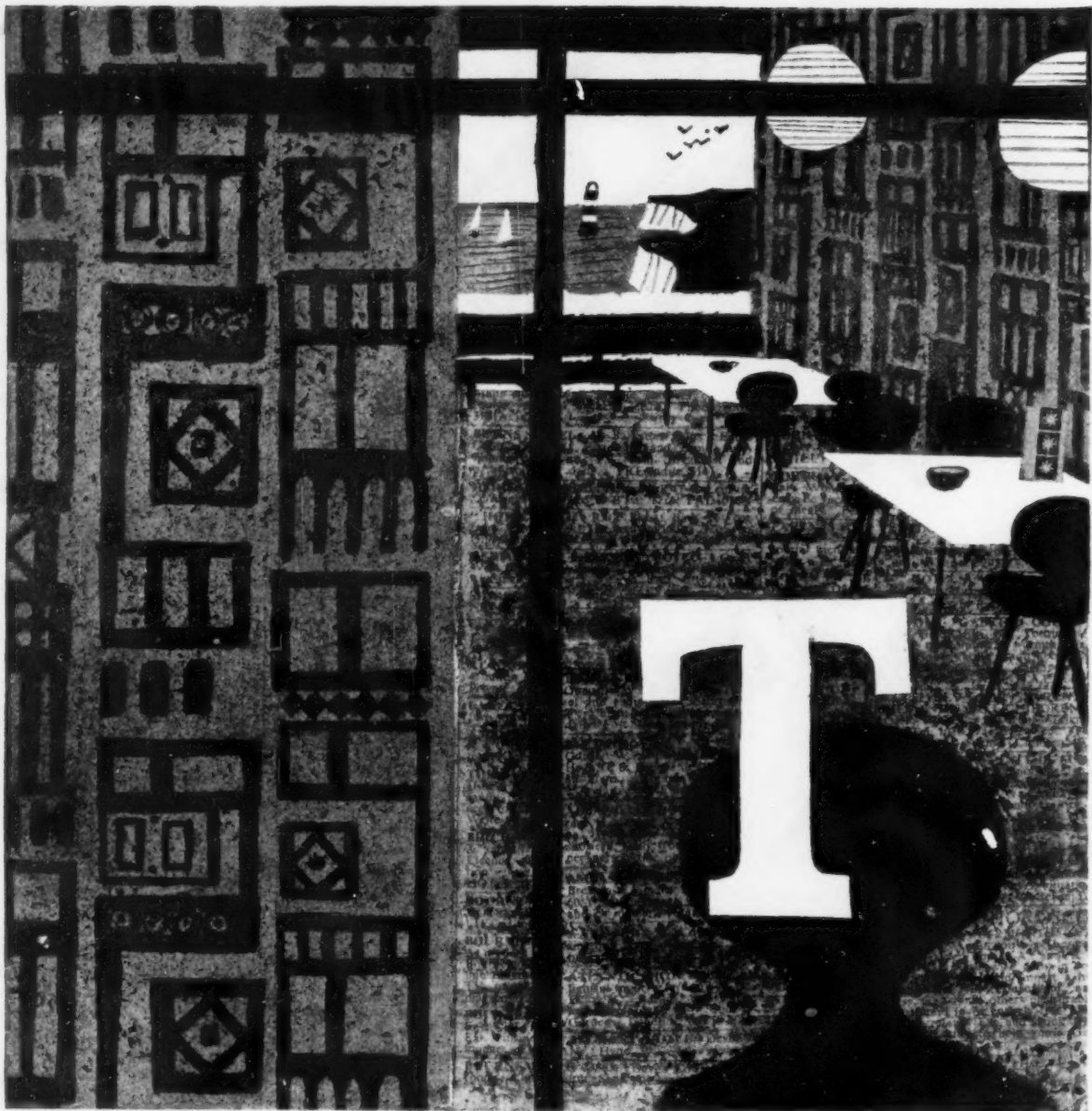
Scheme by Messrs. Hobson and Bridges

Assessment: Our scheme seeks to preserve the tightness you find in any mediaeval town plan. Around the town we mix industry and housing with open areas, so that people are aware of the limits of the town and conscious of its centre. We assume a grid of motor-ways bypassing Aylesbury with one deadleg leading into the town, down the line of the old railway from Cheddington, with access flyovers over the disused goods-yards. Car parking is provided in the basements of all new development and a new shopping area with raised pedestrian area links the station with existing Aylesbury. At the south, buildings nearest the communication centre could have three storeys

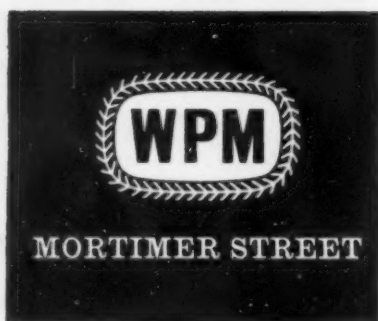
below the level of this pedestrian link; further up the hill there would be only two lower storeys. These buildings would be a mixed development of offices, shops and living accommodation.

Scheme by Messrs. Farrow, Evans and Dunham

Assessment: The heavy traffic which converges on Aylesbury is taken through the town at the best place—beside the railway, which becomes part of a traffic centre used by taxis, trains, buses and helicopters. The centre is raised on a platform (under which through traffic passes at speed, separated from local traffic), reconciling pedestrian shopping facilities with servicing for shops, offices, restaurants, etc., from below. This development area is planned as a series of squares, with raised platforms through the centre of which trees could grow, the buildings have storage and service entrances at ground level. The series of small shopping complexes created thus would be both intimate and competitive. Around the centre are placed multi-storey parking blocks of a form easily recognised and readily reached from the two main roads into which the traffic converging on the town is directed.



Drawing by William Belcher



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THE INDUSTRY

*This week Brian Grant describes
a room heater, glare-reducing
blinds, ceiling lighting, and office
and laboratory furniture.*

Warm Air Heating Unit

The illustration on the right shows the new Janitor "Housewarmer" unit, which has been designed for use with small bore heating systems. It is made in two sizes, with outputs of 24,000 and 12,000 B.t.u. per hour, and each model has a two-speed electric fan so that the output of the heater unit can be within limits controlled if a thermostat is not installed. Dimensions are 30 in. high by 10 in. deep, with a width of 43 in. for the larger unit, 25 in. for the smaller. Prices are £75 and £55. (Janitor Boilers Ltd., Camberley, Surrey.)

Office Furniture

At the beginning of this year Henry Stone introduced a range of well designed office furniture, some of which is illustrated on the right (centre). The timber used is afrormosia, with an oiled finish, and in addition to the designs illustrated there are also some excellent tables and other chairs. (Henry Stone & Son, Ltd., Swan Close Works, Banbury, Oxon.) There is also a London showroom in Golden Square.

Protection against Glare

In some new offices in Manchester it appears that the staff complained about dazzle and glare on sunny days. While this may sug-

gest that someone didn't do quite enough homework before the building was finished, an answer has been found in the use of roller blinds made of Tygan p.v.c. fabric, which have proved a successful alternative to the more conventional net curtain, as the yarn from which they are woven will not rot or stretch, and can easily be cleaned. The weave is also fairly open, so that ventilation is adequate. (Fothergill & Harvey Ltd., Harvester House, Peter Street, Manchester 2.)

Laboratory Furniture

A series of leaflets from Sintacel illustrate quite a large range of laboratory furniture, which includes modular underbench and wall storage units (drawers or cupboards) blinds, bench tops, stools, shelving, and the necessary ironmongery for supplies of water, vacuum, compressed air and steam. Prices seem reasonable. Sintacel also specialise in ventilation and fume extraction, plumbing and sheet metal work, drawing equipment and plan chests: they appear to have a fairly adequate knowledge of what laboratory workers need. (Sintacel Ltd., 1 Salisbury Square, London, E.C.4.)

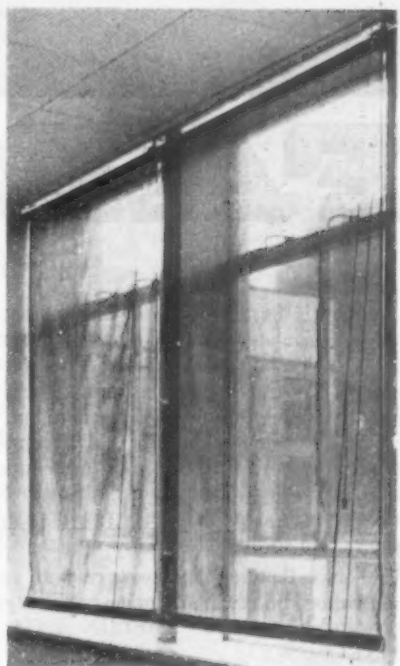
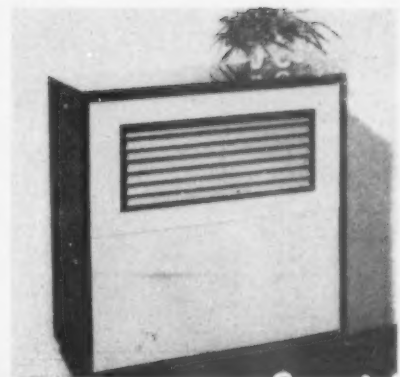
Ceiling Lighting

Courtney Pope have recently issued a new ceiling catalogue which contains useful and logically arranged information on the design of illuminated ceilings. The information starts with drawings of the various components, channels, tees, angles, diffuser panels, acoustic tiles, solid infiller panels and light fittings, and then illustrates a number of actual installations where different methods have been adopted, with a useful indication of comparative costs. The final section consists of the relevant constructional drawings to show the methods of suspension and assembly. A clearly set out publication, to A4 size. (Courtney Pope (Electrical) Ltd., Amherst Park Works, Tottenham, London, N.15.)

Janitor air circulation heater, top

Stone's office furniture, centre

Open weave plastic blinds to reduce glare, right



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6. PLANNING: SOCIAL AND RECREATIONAL:

radburn planning: a reassessment, 7
foreign examples, residential areas

Having assessed the extent and fortune of the Radburn idea in Great Britain and having set out the principles of Radburn planning,* Paul Ritter illustrates recent foreign examples. This week he shows those which are residential only. In the next article he will turn to schemes which go beyond the residential unit.

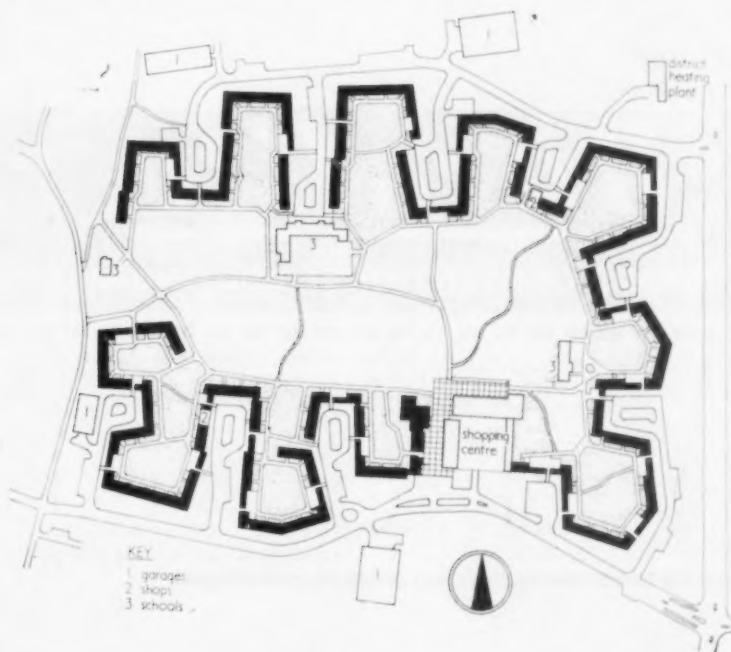
SWEDEN

Baronbackavna Estate, Örebro, and Biskopsgaden Estate, Göteborg

These two estates, both by Ekholm and White, follow the same general plan. The Örebro scheme, which was won in competition, is for 1,228 flats, housing 4,000 people at a gross density of 51 persons per acre. The Göteborg scheme comprises 583 flats, houses 2,277 people and gives a density of 119 habitable rooms per acre.

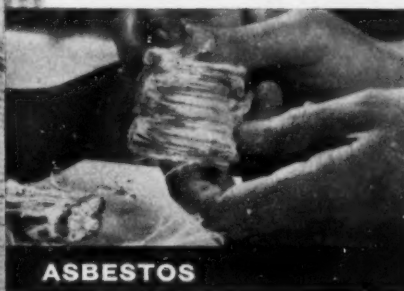
* Previous articles in this series were as follows: The classic objections, November 10; Footpath or road access?—a social enquiry, 1, November 17; Footpath or road access?—a social enquiry, 2, November 24; Comparative costs, December 8, 1960; Design principles, 1, January 12, 1961; Design principles, 2, January 26, 1961.

Fig. 1. Baronbackavna Estate, Örebro. Scale 1: 6000

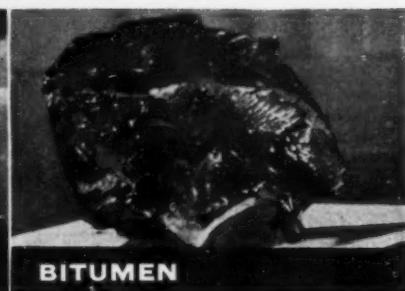




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Fig. 2. Aerial view of Baronbackavna Estate, Örebro



Fig. 3. Children's play space on path side of Baronbackavna Estate, Örebro

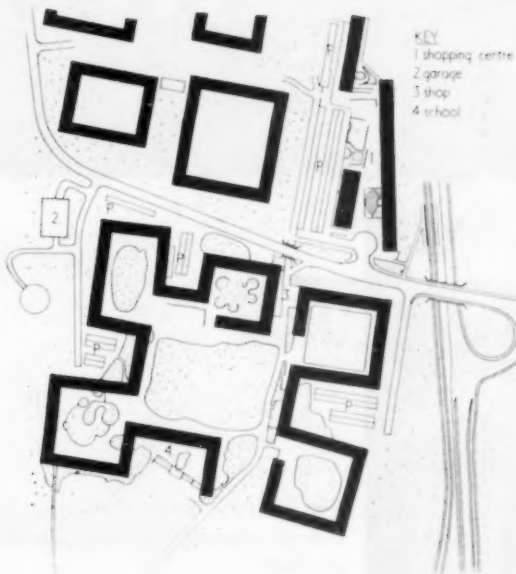


Fig. 4. Biskopsgaden Estate, Göteborg. Scale 1: 6000. Note underpass leading to shops

Both of these schemes show a system of intimate courts which merge into a larger central space. The smaller courts give the inhabitants, in effect, a common open air room. So that the courtyards should be fully used, all entrances lead off them and, in the family units, kitchen, living room and balcony face onto them so that the mother can keep an eye on her children. In the Örebro scheme special attention has been given to the directions of cycle tracks and to footpaths to schools, shops, centre and a neighbouring industrial estate so that there is no temptation to take short cuts along roads.

Communal garages have been used on both

technical section



schemes and these have generally been sited on the far side of the ring road. But, since there is generous parking and boarding space on the culs-de-sac, only the driver will have to cross the ring road when he fetches and puts the car away. An underpass connects the pedestrians of the Göteborg scheme with a shopping centre, school and station.

A booklet has been specially printed for the Göteborg tenants. *This is invaluable in making a new kind of layout appreciated and properly used.*

Fig. 5. A roadside parking court at Biskopsgaden Estate, Göteborg

Fig. 6. Path side court at Biskopsgaden Estate, Göteborg

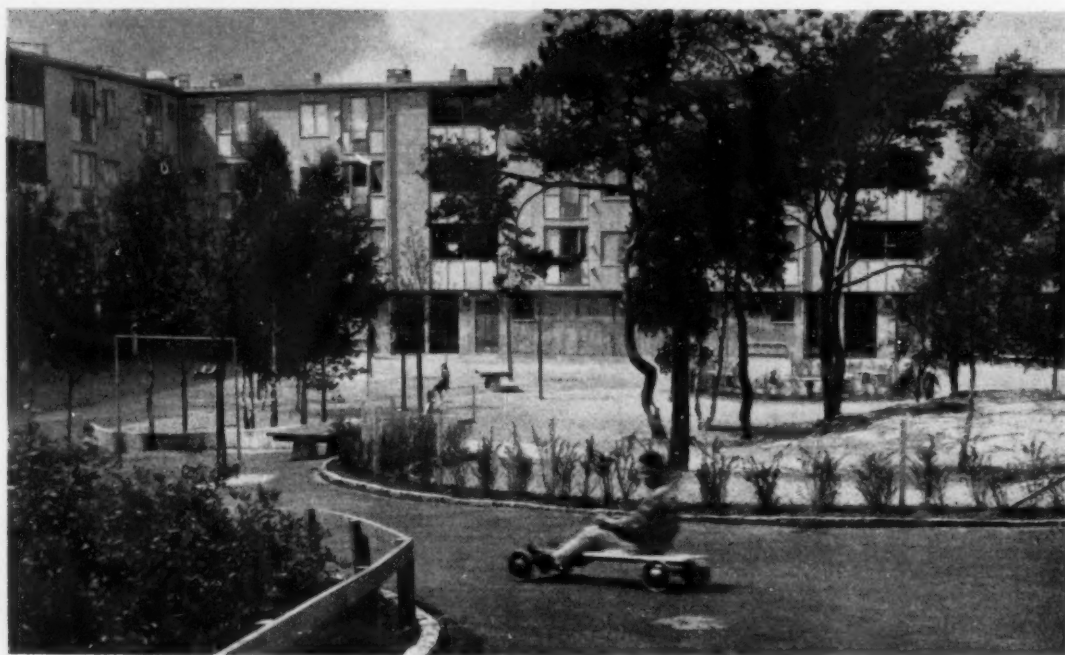
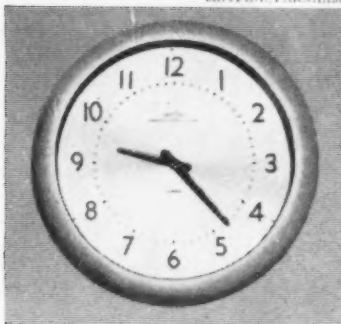


Fig. 7. View across a road way at Lafayette Park, Detroit, showing 3 ft. 6 in. podium on which houses are built

MAYFAIR/PARNHAM

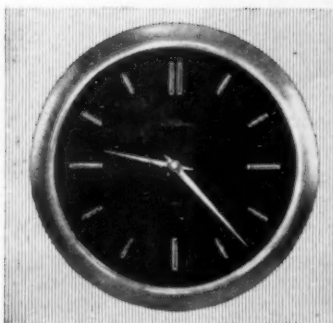
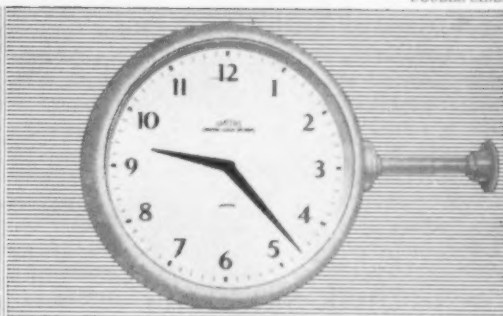


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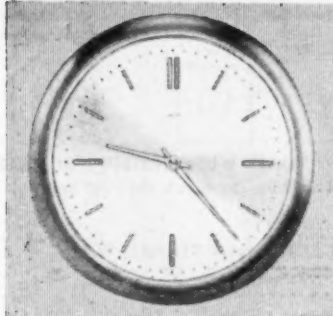


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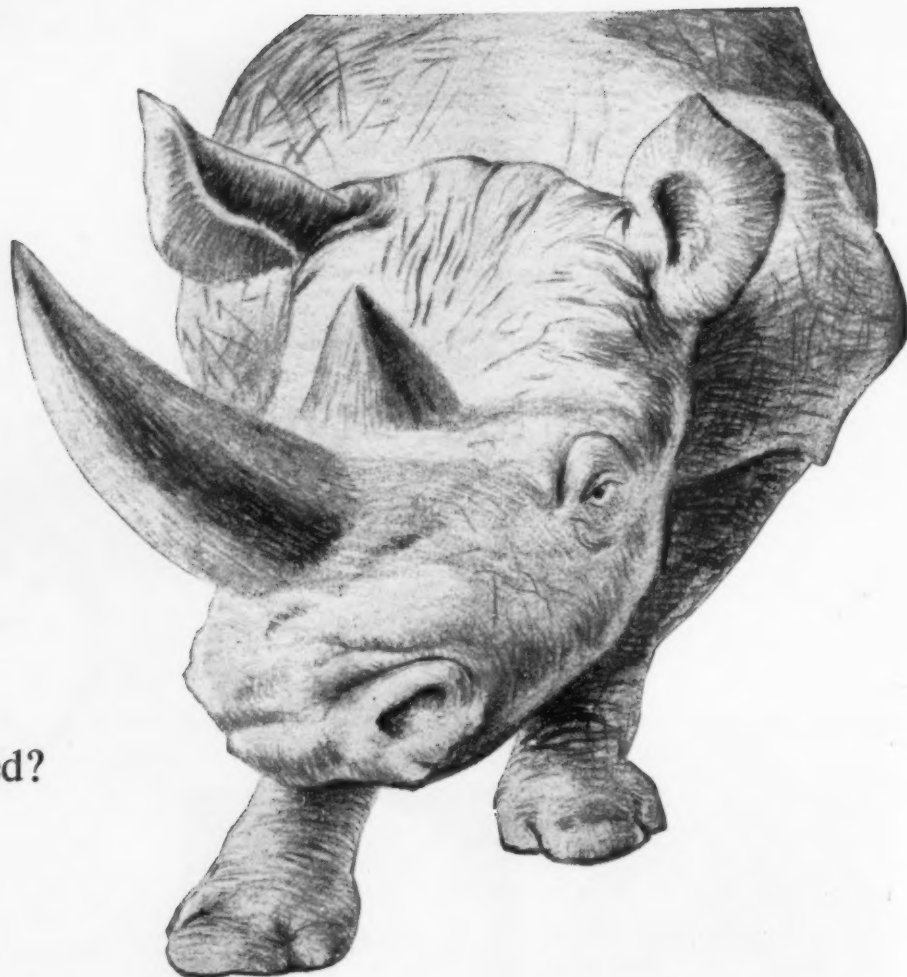
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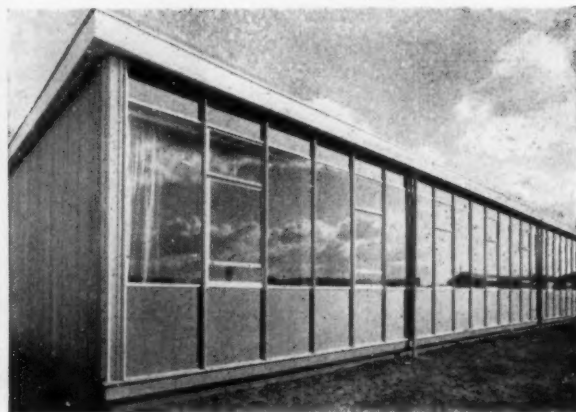
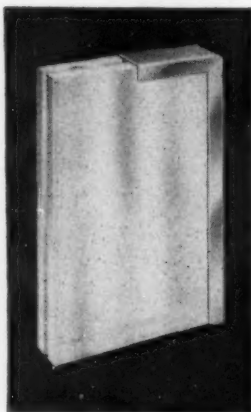
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technical section



Fig. 8. Aerial view of Lafayette Park, Detroit

U.S.A.

Lafayette Park, Detroit

Designed by Mies van der Rohe, the main point of interest of this scheme lies in the raising of the houses onto a platform 3 ft. 6 in. above street level so that cars do not dominate the houses. The scheme gives a 200 per cent. car port and parking provision. Density is 25 dwellings per acre. A possible criticism is that there is a dearth of things to attract children onto the pedestrian side. Figures refer to the section built. Whether the whole project, as on the plan, will be completed is still uncertain. The scheme is an attempt to bring the middle income



Fig. 9. General view of path side at Lafayette Park, Detroit

group into the centre of Detroit, not attractive to them at present. The existing grid-iron road network is transformed by the creation of a ring road round the superblock and service culs-de-sac.

Fig. 10. Lafayette Park, Detroit. Scale: 1:6000



technical section

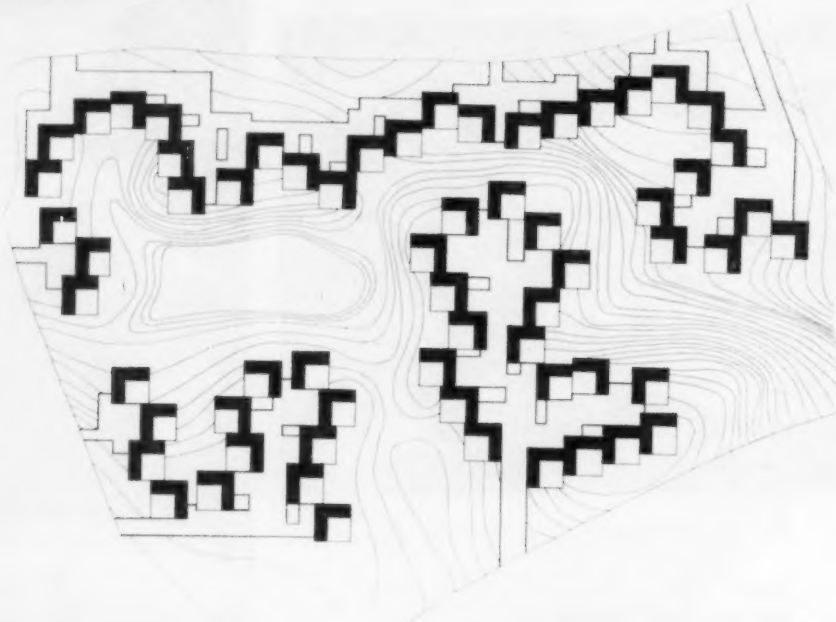


Fig. 11. Estate at Elsinore. Scale 1: 3000

DENMARK

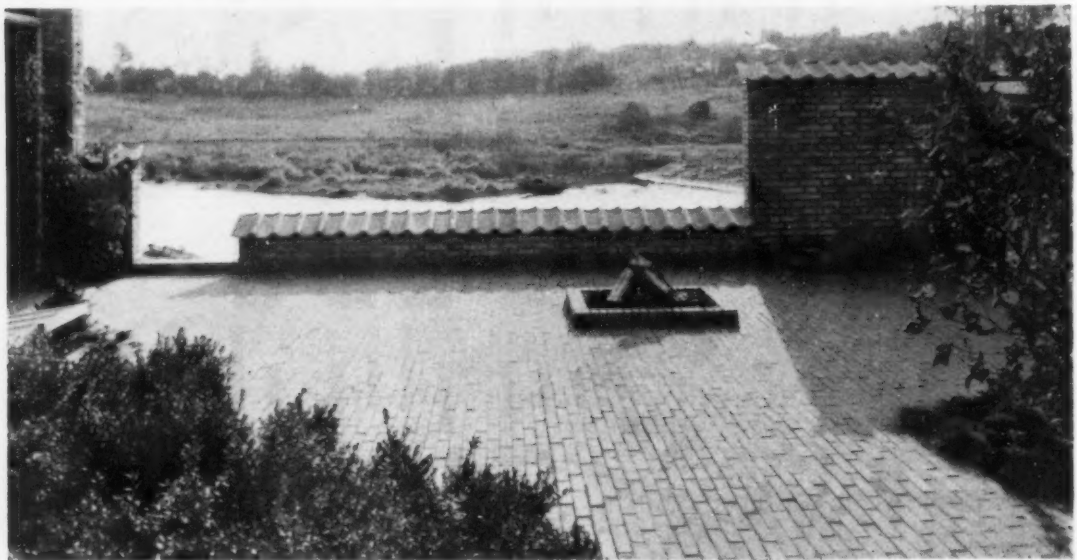
Elsinore

This small group designed by Jorn Utzon shows the advantage of rear service access used with court houses. The courts give privacy and the manner of clustering them round the service access gives a remarkable sense of space on an estate which is, in fact, built to a gross density of 30 dwellings to the acre. On the other hand, the sky line surrounding the central space is continuous, interesting and urban. This is partly due to the flexibility of the plan which is adaptable to contours and to differing orientation. The total area of an L-shaped house plus courtyard is 55 ft. by 55 ft.

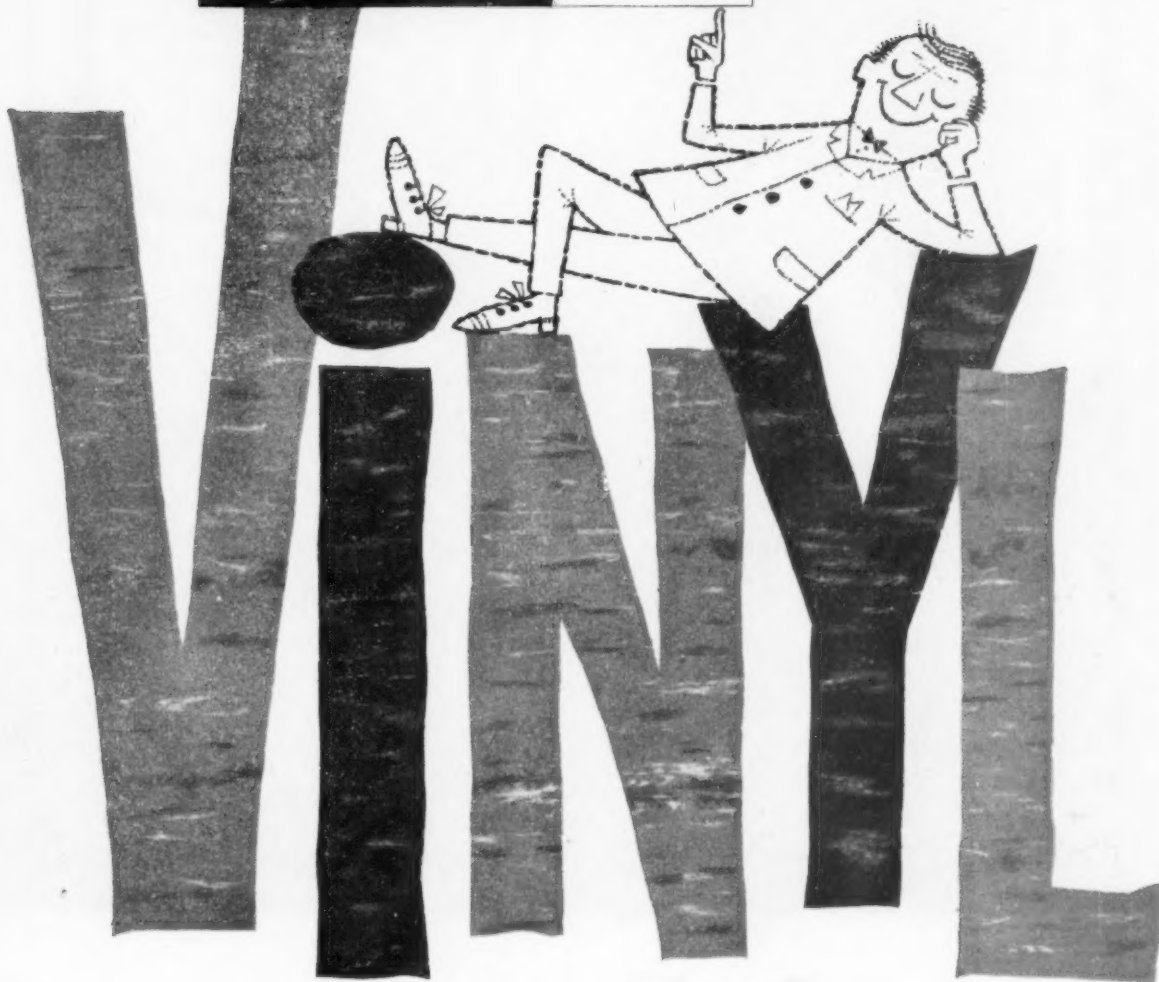


Fig. 12. View of garage court, Elsinore

Fig. 13. View from a garden court, Elsinore



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AJ2

Administration and canteen blocks from the west



Offices and Laboratories

in Belfast

In designing these ancillary buildings, which serve a plant manufacturing agricultural products, the architects have attempted to create a more human scale of environment than the production blocks, whilst retaining a visual character of robustness and vigour

Consultant architects

MUNCE & KENNEDY

Structural consultants and quantity
surveyors

FREDERICK SNOW & PARTNERS

Mechanical consultants

DOLBY & WILLIAMSON

Associate in charge

L. A. ROCHE

Design and working drawing team

David Hatch, D. Minshull-Beech,

M. Payne, G. Horscroft,

I. D. McKee, G. McSheffrey,

D. Hanlon, K. Barbour,

D. McDonald.

Colour treatment

A. D. Bell

building illustrated

These buildings provide accommodation for a variety of functions associated with a nearby plant which manufactures agricultural products. The architects were faced with a number of problems in relation to the site which have had a direct bearing on the planning solution that they have adopted.

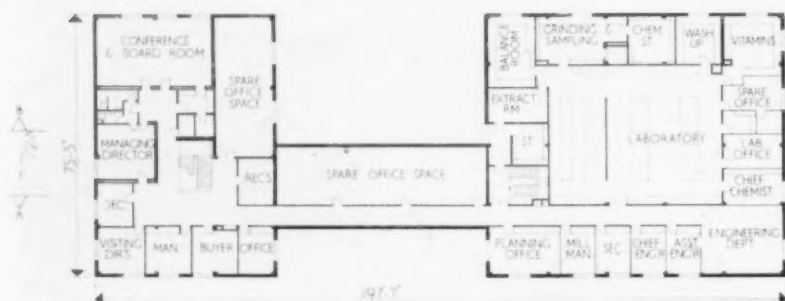
The site is in a built-up area about one mile from the centre of Belfast, and York Road, which forms the west boundary, is one of the main traffic routes out of the city to the north. Although at present divorced from the plant area, the company have long-term proposals for the acquisition of the intervening property. It was necessary, therefore, that the offices and laboratories should be designed with this eventual integration in mind, although they would have to function satisfactorily for the time being as a separate unit.

Before construction started an existing mill was demolished. At the same time an electricity substation serving surrounding property had to be replaced. After this clearance, the architects were left with a long, narrow site upon which to provide for a wide variety of functions. Bearing in mind that in addition to the buildings, generous space for parking

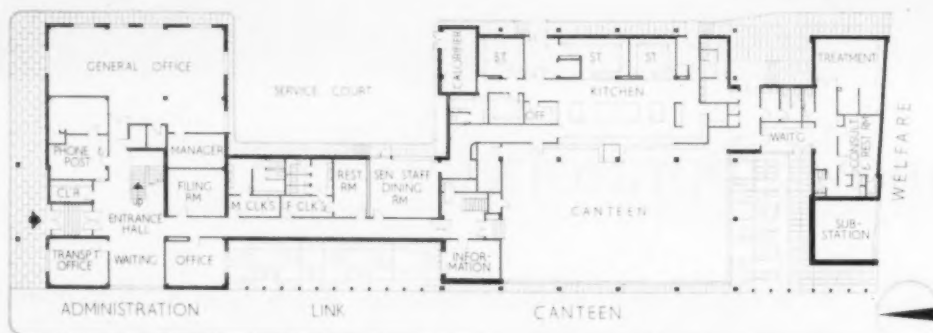
was required, it became inevitable that the accommodation should be provided almost entirely in one multi-storey block. This was inevitably a difficult solution to adopt, because of the widely different requirements of the various spaces, particularly with regard to floor loadings and services. The detailed planning finally adopted groups the main administrative offices in a block at the north end of the site, and places the canteen at the southern end with the laboratories on the first floor above so as to form a second block. The main laboratory is centrally placed, and surrounded by smaller ancillary laboratories and offices. It is top-lit by monitor rooflights.

The two main blocks are linked together on both floors by lavatory accommodation at ground level, and by space over for future offices. To allow for further expansion the administrative block has been designed to carry a possible vertical extension. At the extreme south end of the site a health centre has been provided in a single-storey block linked to the main entrance to the canteen. This block also accommodates the resited electricity substations.

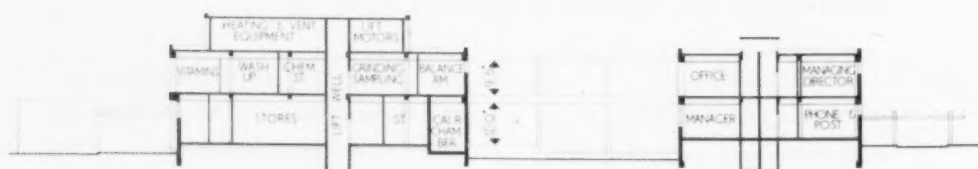
The time and labour offices, mess rooms and locker rooms



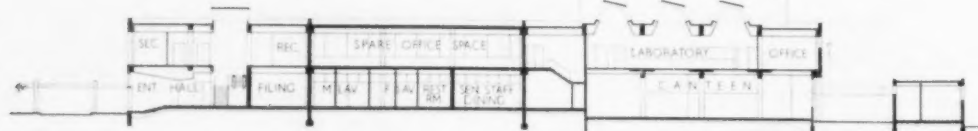
Administration block:
first floor plan



Ground floor plan
[Scale: $\frac{1}{8}'' = 1' 0''$]



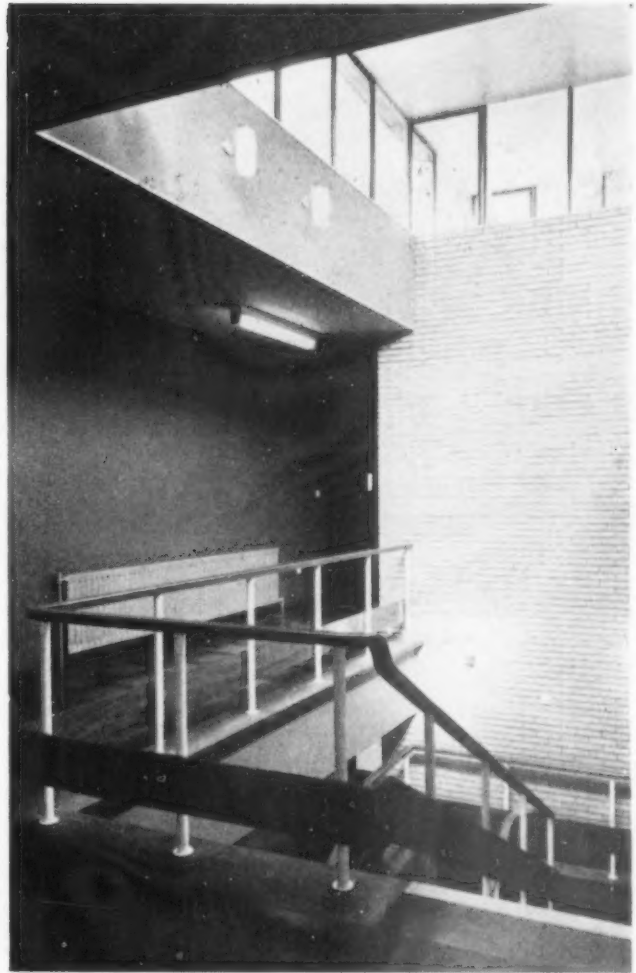
Section BB



Section AA
[Scale: $\frac{1}{8}'' = 1' 0''$]

have been placed in a separate block south of the main administrative building, on the north-west corner of the site for the main plant. The employees enter the plant area via this building, which also houses the time clocks and wages office.

In designing these buildings the architects say that they have been conscious of the dominant scale of the nearby plant, which includes silos, production and warehouse blocks, and boiler flue; these have largely determined the visual character of the overall development. This is not only in terms of sheer size, but equally in an expression of robust simplicity of structure and cladding. Bearing this in mind, the architects have attempted in these ancillary blocks to create a smaller and more human scale of expression, while retaining all the vigour of the plant buildings. This is in terms of a concrete frame, which is in part expressed externally, with infill panels of locally-made textured concrete bricks. Almost throughout, continuous high-level windows have been provided for the offices, with lower sills at intervals, in some cases down at floor level. The architects deliberately chose this form of design in the attempt to

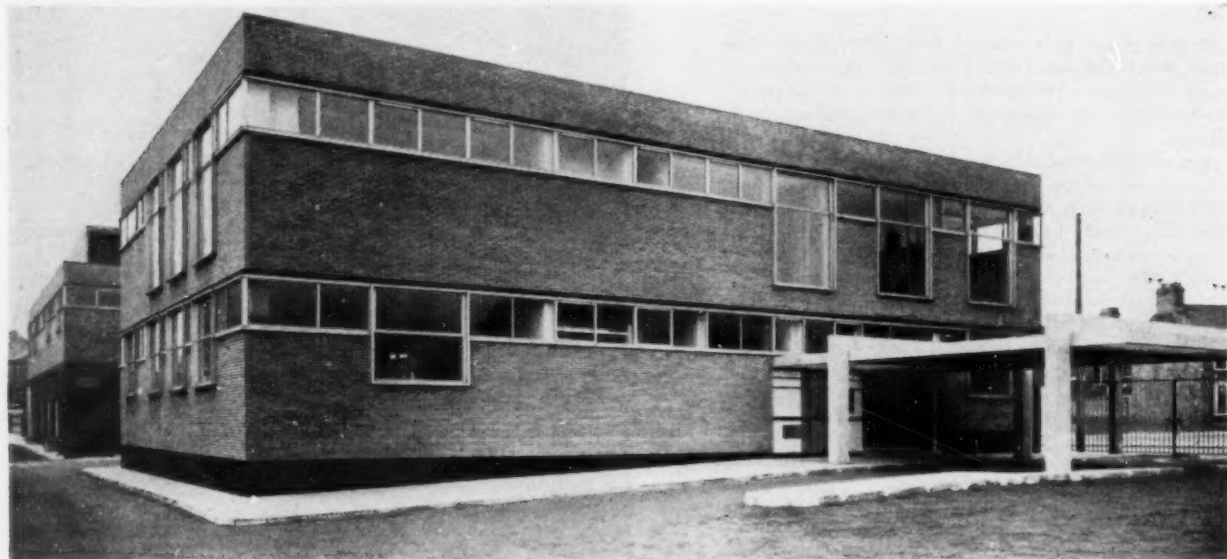


Top of main staircase in the administration block and corridor leading to the boardroom

East side of canteen block and single-storey entrance to canteen and welfare block (extreme left)



building illustrated



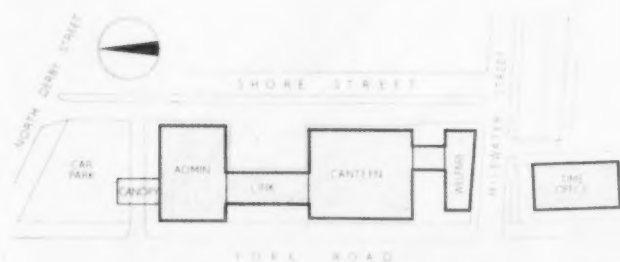
North front of administration block showing main entrance. In the foreground is the car park

express the fact that the brick is non-structural in character. On the ground floor of the canteen block other external finishes have been used, including limited areas of rendering, slate and Mourne granite (which has also been used for the external walls of the substation). With the exception of the link block, aluminium windows have been used for all the offices; they are set in specially designed pressed aluminium subframes.

The car park and the service road which runs the full length of the east side of the site have both been screened at the boundaries by high railings. Those along the service road are temporary and will be removed when the adjoining road is incorporated into the site. For the rest of the frontage

on to the main road the building has been set mainly on the building line, but where there are set-backs, the boundary of the site has been defined by floorscape treatment which includes cobbles and bollards.

In this design the architects have been highly successful in achieving the type of robust aesthetic that was their pre-conception as to character of building required. It is perhaps unfortunate that the treatment in terms of the various textures used is not slightly more disciplined on the canteen block. This is emphasised by the way in which such variety has been used as camouflage where the formalistic envelope of this block has broken down, as with the granite on the outside of the information room, or the black paint on the



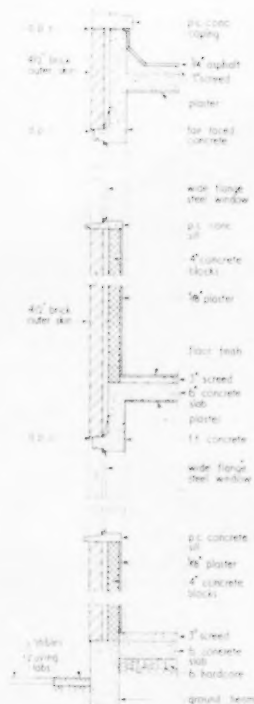
Site plan

[Scale: $\frac{1}{4}$ " = 1' 0"]



Time block: sections CC (left), DD (centre) and ground floor plant right [Scale: $\frac{1}{8}$ " = 1' 0"]

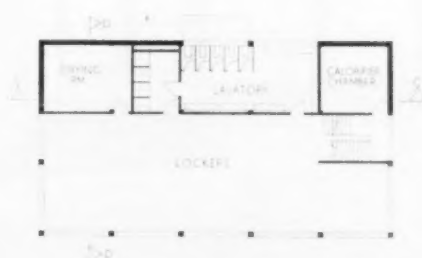




Detail of wall construction

[Scale: $\frac{1}{8}'' = 1' 0''$]

Corner of the canteen block

Detail of laboratory roof shown in the photograph on page 188 [Scale: $\frac{1}{8}'' = 1' 0''$]Time block: first floor plan [Scale: $\frac{1}{8}'' = 1' 0''$]

calorifier room. With the exception of these lapses, however, the block relationships for the rest of the building have been competently worked out and detailed.

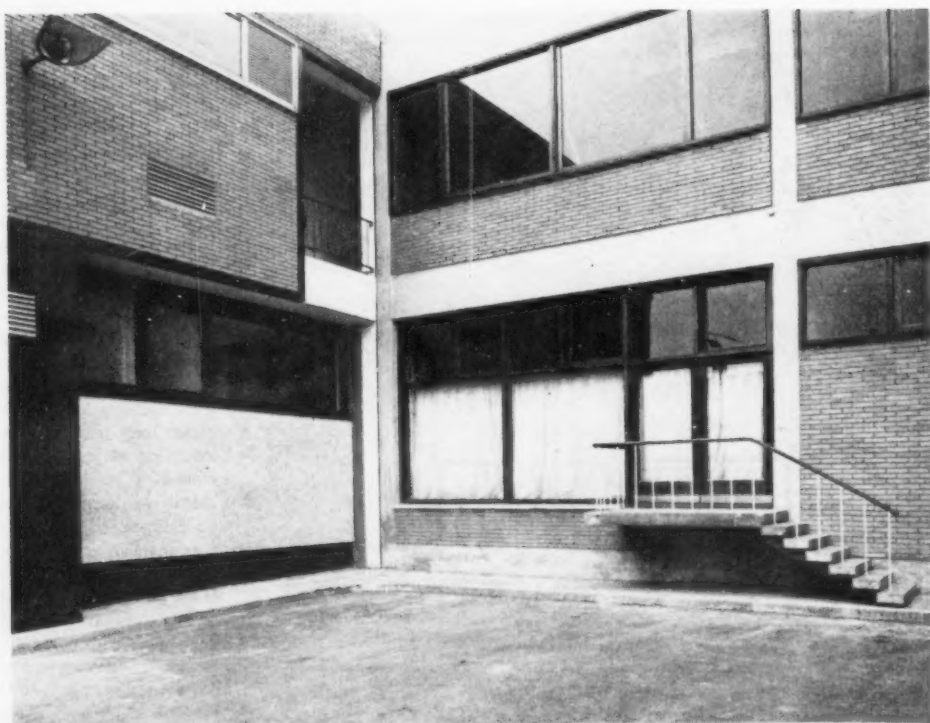
Perhaps the most dominant feature of the exterior, however, is the pattern of high and low sills. This is no doubt a very fashionable form of fenestration; but in this case it seems to take only slight account of the detailed functions of the various interiors. High-level strip windows are certainly visible proof that the brickwork above them is supported on a frame, but there still remains the problem of glare for the occupants, plus the adverse effect on the scale of the interiors. This building has obviously raised many planning problems which have been competently handled, and the exercise of achieving an aesthetic which is compatible with that of the main plant buildings is an interesting one. It is clear, however, that in the more fundamental terms of structure and planning, no attempt has been made to make the office-canteen buildings match the physical characteristics of a small factory. This building has little flexibility for expansion or change of use, features structurally and aesthetically inherent in good factory design. Not that any factory office block has yet been built with these characteristics. But the current trend is for more and more office and laboratory workers to be required in industry, so that the need for such a development becomes daily more pressing.

building illustrated

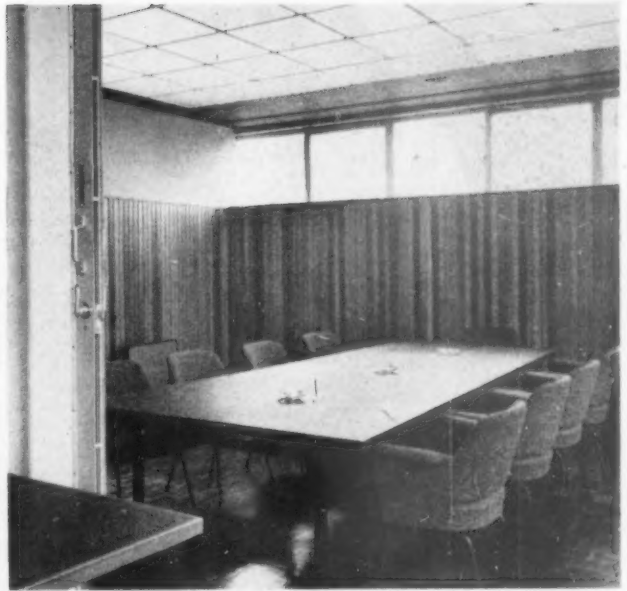
*South side of canteen
with entrance to welfare
block at right*



*Entrance to senior staff
dining-room from the
service court*



Conference room. A sliding folding partition can divide the room into two. Panelling is cedar



Below: bottom of staircase in the administration block with main entrance on left



CONTRACTORS

General contractors: McLaughlin & Harvey Ltd. Sub-contractors—Heating and ventilation: Brightside Heating & Engineering Co. Ltd. Electrical: Hugh J. Scott Ltd. Laboratory equipment: Cygnet Joinery Ltd. Kitchen equipment: General Electric Co. Ltd. Aluminium windows: Gardiner, Sons & Co. Ltd. Plumbing: R. B. Wilson Ltd. Wall and floor tiling: W. D. Henderson & Sons Ltd. Terrazzo flooring: Toffolo Jackson & Co. Ltd. Pipe installation: Katson Installations Ltd. Suspended ceilings: Robert Kirk Ltd. Asphalt roofing: The Limmer & Trinidad Lake Asphalt Co. Ltd. Lift: Wm. Wadsworth & Sons Ltd. Granite masonry: North of Ireland Granite Supply Co. Glass waste pipes: Q.V.F. Ltd. Demountable partitions: Unilock Partitions Ltd. Roof screeds: Celcon Ltd. Felt roofing: Vulcanite Ltd. Linoleum and woodblock flooring: J. P. Corry & Co. Ltd. Painting: John Hamilton (Decorators) Ltd. Fire alarms: Associated Fire Alarms Ltd. Sliding folding doors: Bolton Gate Co. Ltd. Strong-room door: Chatwood Safe & Engineering Co. Ltd. Main entrance doors: H. McIlhagga Ltd.



Junior management grade office, showing connection between demountable partitioning and aluminium mullions, centre



Managing director's office, with full height curtains to the large window, mahogany wood block floor, and cedar panelling

building illustrated



Laboratory roof. A detail drawing is shown on page 185



The canteen, looking through the large servery into the kitchen

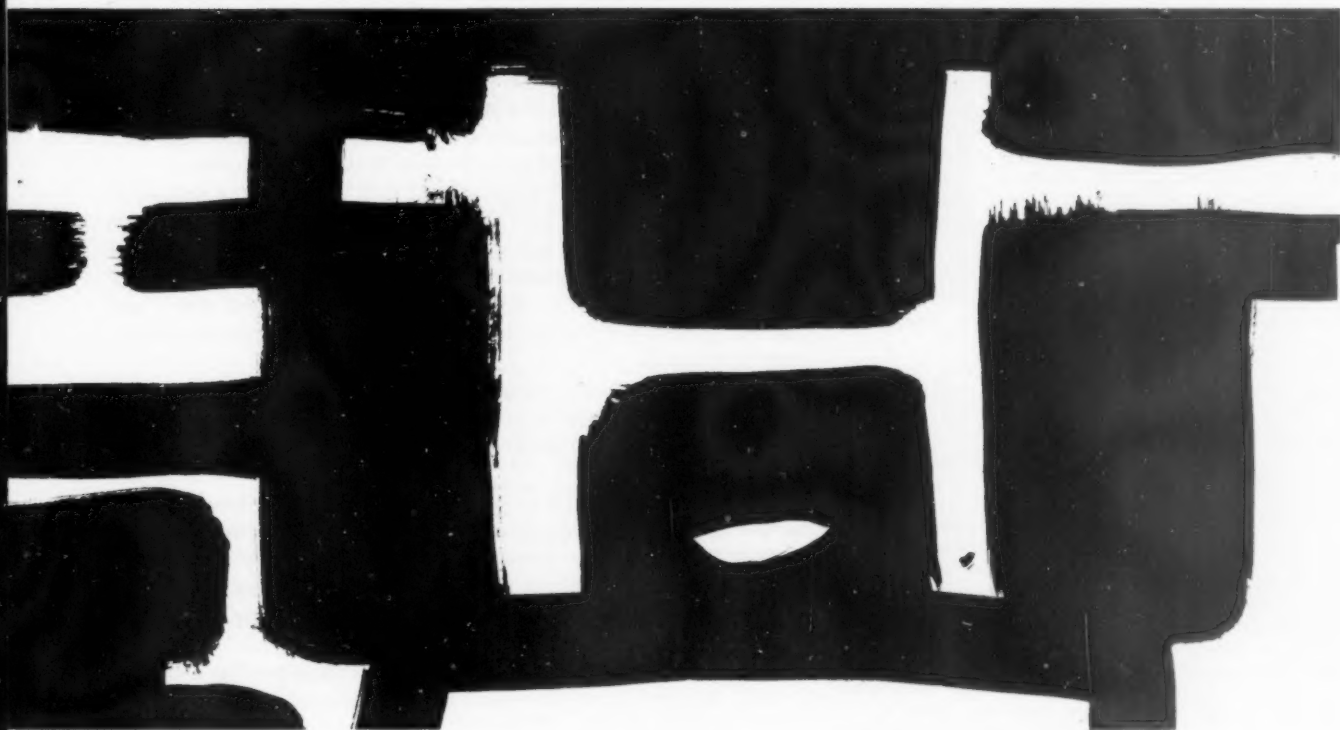


Kitchen, showing roller shutters which separate it from the canteen

The BASA Editor
The Building Centre
Store Street
London WC1

Monthly supplement

BASA



The study of the relationship between structure and architecture, between techniques and their use in buildings, is a fascinating one. This is the theme of the I.U.A. Congress, to be held this year from July 3 to 7 in London. The demands made by any culture upon its existing techniques vary enormously. These demands, naturally enough, depend upon the social priorities that the culture places upon its buildings—"What buildings do we want—and what do we want them to do?"

It is doubtful whether, say, Egyptian kings could ask of themselves so sophisticated and self-conscious a question, but their buildings worked. With Greece, however, we can be sure that Pericles' building of the Parthenon was a direct result of a more or less self-conscious examination of the needs of Athens, and of Pericles—not just functional needs but social and political ones as well. (The actual reasons are noted in H. D. F. Kitto's book *The Greeks*—to gain prestige abroad by boosting Athens as the cultural centre of Greece—to utilise the unemployed labour at his disposal—to use up money from the Athenian Empire—to symbolise the great victory over the Persians. . .) But knowing why the Parthenon was built cannot possibly detract from our appreciation of it, and may genuinely increase our interest in the lives of the men who built it.

Architecture is a function of history, within history.

This almost platitudinous concept seems to be the only one within which architectural historians and critics can valuably work. It can give to the history of architecture the quality of realism—the insight into the dynamic relationship which exists between any culture and its artefacts, that it has previously lacked.

It will be particularly interesting to see whether Henry Russell Hitchcock's

STUDENT'S VIEW

STUDENT hears from Malcolm Gunn that things are looking brighter for the Welsh School of Architecture in Cardiff. On the social side 80 per cent of students belong to the Student Society, which organises dances, lectures, and, of course, Rugby matches (see DIARY).

On the academic front, 7 students represent student opinion at staff-student meetings which take place 4 times a year.

"We believe," writes Malcolm Gunn, "that the staff appreciate our concern in our own well being and education and it is only by holding frank and honest discussions that we can set our house in order."

Among educational reforms introduced are the cutting down of examinations to a test in structures and quantities—while the very important "assessment of student ability" is through oral interview with all the staff present, at which all the student's work up to that time is examined and discussed.

These are all most encouraging changes—because the only way to find new teaching techniques is to experiment,

but STUDENT hopes that the use of oral examinations is not carried too far. In Chile, students of all subjects, from languages to physiology—have to take all exams orally, and IN PUBLIC.

STUDENT

LETTERS

POLYTECHNIC ARCHITECTURAL SOCIETY

SIR: There has been no Students' Society within the Architectural School of the Polytechnic for some years. P.A.S. has been formed to fill this gap. Its aims are chiefly to provide a nucleus of activities within the school; to organise lectures, exhibitions, excursions, and any other functions considered suitable. Membership is open to all past and present full time members of the Polytechnic Schools of Architecture and Surveying including staff. The Society is run by a committee of representatives from all years of both schools who meet frequently to discuss progress. The Society is represented both in B.A.S.A. and the Polytechnic S.R.C. For more details of the Society's aims and activities and also conditions of membership, write to the Secretary, Polytechnic Architectural Society, Regent Street Polytechnic, London, W.1.

ROBERT MOOR

COMMENT ON RESEARCH

SIR: I should like to comment on the editorial "B.A.S.A. on Research," ARCHITECTS' JOURNAL, January 12. First I would question whether students do, in fact, undertake research in the true sense of the word at any stage of their five-year training. The work which is done by students preparatory to designing the usual programme consists in the main of gathering and collating information. This, I think, would be better described as study. The word "research" carries connotations of the scientific method which it is not generally within

paper (the first to be read at the Congress) on the architectural changes brought about by the emergence of new techniques and materials will be able to relate these changes to the social and political patterns of their day. Indeed any attempt by architectural historians to impose upon the developing process of random cultures neatly categorised periods of change is unrealistic and totally misleading.

Yet this is precisely what Mr. Robert Furneaux Jordan tries to do in writing about "Living Architecture" (*The Observer*, January 15 and 22). "The process," he writes (of architectural change), "... is a general thing which, in a dim, mysterious but fundamental way, repeats itself again and again in history. The steps seem to be these: *archaic, functional, decorated, baroque* (provided that not one of these words shall have quite the meaning normally given to it)."

He defines these words with a minute and exclusive selection of historical examples—and does not attempt to verify his dubious hypothesis with reference to cultures other than those used in defining his terms.

The second article begins: "When an artist gives to the world a great work, then something happens..." that mysterious "something," if it too were explicable, would not only cease to be mysterious, it would no longer exist." This romantic dualism is too damn cosy. His mystical attachment to "Divine Imagination," "divine sparks" and "Creative Acts" and what not, cannot but mislead the layman in his appreciation of architectural development.

One wonders, for instance, what Pier Luigi Nervi (who gives the second paper at the I.U.A. Congress) would think about "... in the decorated period of Luigi Nervi's lace-like roofs we can dimly sense already our own last phase"!

"We must cherish genius," he says, "... the genius is a rare being... taking a leap forward." But there is simply too much building going on for us to rely upon genius alone—and have we really given the scientific approach, which he refers to as fallacious, a real chance to show its worth. The mysterious "something" of artistic creation is "inspiration, it is romance... it is the insanity of genius."

There is enough insanity in the world without that of peculiar architects as well.

the powers of students to pursue. I agree that there are few architects capable of valid research and that the opportunities are very limited. However, I think that this is not so much due to the choice of programmes. The cause lies much deeper and derives from a basic ambivalence towards the idea that there is a method underlying the design process. This leads to the fundamental lack of grounding in research techniques which you mention, but I would question whether the teaching of research techniques *per se* is of much benefit unless opportunities are given for their application.

In general, I feel that the only valid way to learn the meaning of research work is to do it. The teaching of method, although of some value as a means of clarification of thinking processes, could become as sterile as the teaching of presentation methods unless it is clearly demonstrated that these techniques are related to actual problems.

For the above reasons I feel that before working out a broad framework

of research, and also before becoming involved in the precise direction of such research, much more attention needs to be given to the role of students in this activity. It seems to me that with the best will in the world, students can make only a limited contribution to research work unless they are part of a fairly large research organisation within the schools. One of the key factors in research activity must be the ability to form fairly reasoned judgments between various factors involved and this reasoned judgment is something that is acquired rather more gradually than is usually the case with students' thinking.

However, I am in general agreement with practically everything that you say in your editorial and I do hope that with all the interest and propaganda which is being circulated regarding research activities university and school research will be put on the large scale footing which you advocate.

PETER COWAN

Architect to the Bartlett research project

Entry into the Architectural Profession by the PUPILAGE SYSTEM

It is not the intention of this article to offer any magic formula by which the architectural education system can be satisfactorily reorganised, but to emphasise the existence of an outmoded system of entry into a profession. The methods by which the deficiency can be corrected are adequately dealt with in B.A.S.A. supplements.

The pupilage system still exists in all parts of this country ostensibly as a means of educating potential architects, but in reality it is a source of cheap labour for architects' offices in place of an office boy or tracer who would cost more and be more independent.

A more deplorable aspect is when a prospective entrant into the profession is advised to become an articulated pupil without the alternative of a school or university training being equally presented. A reason for accepting this situation has often been a lack of financial support to entrants—with a £100 premium being cheaper than five years at a full time school. However, with the (much criticised) raising of the required educational standard of entry into the profession to two "A" level passes and the reconsideration of the grants system, no education authority would refuse such a person maintenance to attend a full time course at a recognised school.

When the young person enters the architect's office under articles of pupilage, he is dependent upon the office for a standard of design, construction and professional procedure and is therefore bound by the limitations of that office. The imagination and the ability to reason rationally are restricted because of the lack of tuition which is necessary, yet unobtainable, because of pressure of work and the inability of many principals in offices to find time to spare in order to impart their invaluable experiences.

The first few years of a prospective architect's education are probably the most important in his life. They should be the opportunity for his potential to be recognised and developed, but when the office becomes the first teacher and begins by imposing the strict discipline of its methods and subjecting the pupil to "being useful" by running errands, making prints, holding a staff and all the other mundane office duties which

give one "experience," the enthusiasm is curtailed.

Many architects who employ pupils do allow them time from work to follow a course of study at some institution—others do not and all study has to be outside office hours. This brings about a situation where the pupil is serving two masters—his employer, demanding conscientious attendance and employment during office hours; and the equally exacting master of architecture, its art and its sciences entailing study and effort every evening and weekend. Should the school attended by the pupil in his effort to learn not be recognised by the R.I.B.A. (there being some providing facilities without recognition) then he must of necessity concern himself with the testimonies of study, often as an extra to the programmes set by the school.

Though many will be familiar with the testimonies of study a summary will not be out of place. They comprise three sets of drawings dealing with various aspects of architecture and intended as proof that the candidate of the R.I.B.A. Examinations has pursued a course of study to a satisfactory standard. The first group contains exercises in draughtsmanship, the second group requires studies in history, and design and the third group entails measured drawings and working drawings.

It requires a minimum of three years' continuous work to complete the groups (depending on the individual concerned) each group having to be approved before submission of the following group, with any rejected drawings redrawn and resubmitted. The assessment becomes impersonal and any comments are often obscure and ambiguous.

When the required standard is reached the candidate may sit for the Intermediate Examination of the R.I.B.A. After passing this examination the student manfully tackles the final groups of testimonies. Reading through a testimony programme one senses that the R.I.B.A. mean well and are endeavouring to ensure a full coverage of subjects for study by external candidates, but it has been the experience of the authors that the preparation for the testimonies and the presentation of the material become the problem rather than the drawings being a direct product of study. The temptation to abstract complete large passages of "Bannister Fletcher" in the preparation of historical detail sheets is hard to resist, and the repeated duplication of testimonies submitted over the years must be anguishing to the examiners. The prevalent feeling that the testimonies are purely a means to an end is to be deplored but is nevertheless the result of the system of part-time education in this way and the misdirection of the student's energies. After experiencing the rigours of

articled pupilage combined with testimonies of study and the external examinations one feels that these obstacles are intended to select the fittest physically as opposed to the person more fitted for the profession—a sort of jungle law.

In all offices there are jobs which do not need the attention of a fully qualified architect and it is quite true that for many years assistants have been provided by the pupilage system. That, however, is the point, that through the pupilage system the assistants remain assistants. Of course there are the "boy who made good" exceptions, but how much better they could have been with the more expert specialised tuition offered by full time courses.

The authors of this article are all students who have experience of the pupilage system, have struggled through the intermediate and subsequently taken up a full time course at a recognised school of architecture and have all found an enormous advantage in the last few months. We are grateful for our previous office experience, but we now know that a greater advantage would have been gained if we could have had our formative years in full time study.

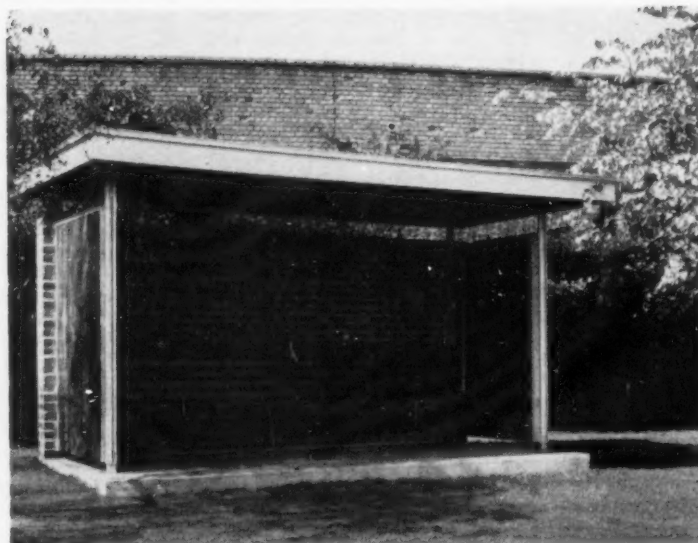
To the pupils already entangled in the web of articles, praise to them if they manage to qualify under eight years. But to all future aspirants please let there be given an unbiased view of the alternative systems of architectural education. Could the Public Relations Office of the R.I.B.A. instruct youth employment officers, headmasters, and all who have the future of youth at heart to the same effect? Also to the long qualified architects may recommendations be made as to the minimum requirements for entry into the profession and facilities which are now available and an attempt made to break this tradition of pupilage which many still regard as sacred. Let us reverently bury this dead form, acknowledging its contribution in the past when the architect was the fount of knowledge from whom all education in the art flowed and look to the future and create architects not assistants.

CHRISTOPHER SAYERS

ROBERT JONES

LAURENCE ROLPH

Northern Polytechnic.



Top, front view of the scorer's box which formed the 1959-60 students' project. Above is the park shelter at the Northern Polytechnic Sports Field, Tufnell Park, which formed the 1958-9 project

COLLABORATIVE PROJECTS AT THE NORTHERN POLYTECHNIC

During the 1958-9 session the 1st year students designed a flexible unit type park shelter, the design being selected on a competitive basis. It consisted of a number of prefabricated components capable of being assembled in various ways to suit differing site conditions. The shelter was erected for the 1959 summer exhibition by students and apprentices in the building trades department. It is now in constant use at the Northern Polytechnic Sports Field, Tufnell Park.

This experiment has now become part of the 1st year syllabus and was followed up in the 1959-60 session with a cricket score box and shelter designed and erected in a similar manner.

During the second term a programme was issued to the 1st year setting out the requirements for a cricket score box, with accommodation for two or three people and a mechanically operated scoreboard; and a shelter from which spectators could watch either cricket on one side or tennis on the other. The students formed three groups to prepare a site survey followed with research data sheets and the design was selected from their sketch designs.

The designer and five other students then developed the scheme and produced full working details. Discussions were held with the whole year and with the craft instructors, and research into mechanical scoring devices and "impact" colours was done at this time.

The main emphasis in the scheme was on prefabrication, as it was necessary to move the entire building from the brickwork shop in the Polytechnic to Tufnell Park. The roof combined a practical experiment in: hyperbolic paraboloid units with an interesting and attractive feature. The nine roof units were built separately on a jig and consisted of two skins of timber strips stapled together and covered in Nuralite. The fascia was 1 in. thick shaped timber painted white and the underside of the roof was left as natural wood. The roof sections were bolted together and raised in one piece to be supported on 3 in. diameter steel tubes bracketed to the sections behind the fascia. Rainwater pipes were incorporated in these tubes and discharged into granite chips in the paving beneath the shelter.

The enclosed area which formed the scorebox itself was built with 11 in. brick cavity walls and timber panel infilling, holding the mechanical scoring apparatus and removable plywood panels. The solid floor was of 6 in. by 6 in. blue quarry tiles laid on cement screed. A flush door formed the entrance to the box.

Hexagonal concrete slabs complimented the roof form set flush with the grass and panels of granite chippings were used instead of cutting the slabs to fit the structure.

The students were able to gain valuable

practical experience in helping to build the project, and they described the materials and design procedure in a tape recording which was played to visitors at the 1960 summer exhibition while the project was on display.

The students enjoyed working in conjunction with the design staff and craft instructors; in actually handling the materials and watching the scheme go through to completion they gained knowledge which is normally impossible in the studio.

The project is soon to be erected at Tufnell Park but first some modifications are necessary. This entails more discussion between the students and staff and one of these informal talks was recently featured in a television series which Associated Television have been making at the Northern Polytechnic.

ANN PRYDE

Another view of the 1959-60 first year students' project showing the rear of the scorer's box and the shelter



BOOK REVIEW

The Development of the Architectural Profession in Britain, by Barrington Kaye.

This book, says its author, in a preface and apologia, is an attempt to decide why professionalism developed in architecture, and developed in the way it did. As such it is limited in its scope and, consequently, in its appeal. The body of the work was carried out as a Ph.D. thesis in 1951.

The author starts, reasonably enough, with two definitions. First he decides what is meant by professionalism and that it developed as a natural outcome of a free market economy on saleable intellect. In a similar way he then attempts to define and describe the function of an architect, starting with the essential difficulty that an architect is both technician and artist. Ignoring his vaguely nasty comments on the foibles of artists in general, it seems that the important aspect of this chapter is his definition and categorisation of art, artist, and hence architect. He says that anything is art which is meant to be judged according to aesthetic criteria—the accent being on intention. He then proceeds to categorise art: if aesthetic criteria are the only ones—it is pure art, and if they are the overriding ones—quasi art, if they are the subsidiary ones, “applied” art (an unfortunate word), and, where there

are no aesthetic criteria, non-art. Thus architecture oscillates between “quasi” and “applied” art. These definitions are fundamental to the rest of the book, and they take some swallowing.

They are too inclusive; forgery would be pure art, the design of a car horn, applied art.

However the definitions work well for the sociological thesis, for it neatly introduces the architect's dilemma; should he, against his better judgment, alter his designs to suit the client? Those architects who would be designated “professional” architects, their work is “applied” art, and their battle cry, “he who lives to please must please to live.” Those who would not be “artistic,” they produce “quasi” art architecture.

From then on the book narrates how the complex which is the architectural profession today evolved from the master masons and builders of medieval England. He discusses history, status, patronage, education, and associations. He comes to the real meat of his subject with the formation of the Society of British Architects in 1834, and the problems facing architects at that time. From then on we have an almost day to day diary of the fascinating polemics and intrigues which lead up to the situation existing today. These chapters seethe with the battle between the “artist” architect and the “professional” architect, the final victory

being won by the professional with the coming of the Architect's Registration Council.

The book ends with a chapter on modern architecture and some very lame comments on functionalism. He suggests that today the aesthetic dilemma seldom arises because what is most aesthetically pleasing is today associated with what is most efficient, so that, *de facto*, the architect is little more than a skilled technician—a gross simplification. It is this sort of thing which spoils the book. Even from an avowedly sociological viewpoint Mr. Kaye is ill at ease discussing aesthetics, and perhaps because a deeper investigation might be inconvenient to his thesis he has allowed superficial ideas to suffice.

Otherwise the book is excellent. To start with the author is very well read, nearly half of the narrative is quote and some of the notes, e.g., the *RIBA Journal* quote on the demise of Ruskin, are splendid examples of what one digs up in literary research.

But most of all, the book is important because it provides the first attempt to find out how architects came to hold the position they do today. As such it is absorbing reading for any architect, and even essential for those who aspire to administrative positions in the profession.

BILL THOMAS

SOCIOLOGY AND HOUSING

Ruth Glass at the Bartlett on:

SOCIOLOGY

The sociologist should not need to tell the architect anything about sociology in respect of housing.

CARTOON

Cartoon by Feiffer in *The Observer* (15.1.61) illustrated some important points about housing projects: (1) new schemes are often not related to individual convenience; (2) in any housing project, the requirements of (a) the individual household, (b) the whole group, and (c) the wider environment, were bound to conflict; (3) in most housing projects, improvements are inclined to be seemingly "apparent" externally rather than "real" internally.

RESPONSIBILITY

It is the social responsibility of the architect to integrate these requirements and seek a much wider solution.

AVERAGES

There is no such thing as an average family of 3.75 persons, just as there is no standard solution to a housing problem.

"MUNICIPAL-ISM"

The first municipal housing was for the poor, who as a result became socially alienated from the rest of the community—this has changed. More recent municipal architecture (Churchill Gardens) has been of such a high standard that the property around the site has changed hands and the area "gentry-fied."

CLIENTS

The trend has been from "private" clients who feed the architect with requirements, to "public" clients (local authorities, etc.) who can no longer write the programme for the architect.

"SPEC."

Since the early 50's, speculative houses have outnumbered those built by municipal authorities.

ENVIRONMENT

There is no ideal housing environment—people adapt themselves to their environment in a quite unpredictable way but they also bring to any new environment very varied, existing patterns of social life.

CHOICE

At the present time, with housing shortage, very few people are able to choose the homes they live in and so have no alternative to making the best of what they can get.

NEW TOWNS

It was a pity that the national resources for building new towns could not have been shared by different and more needy parts of the country—not just around London.

ADAPTABILITY

People partially mould themselves to the "bricks and mortar" of a place but also adapt their environment to suit themselves: therefore buildings should be flexible enough to allow for possible changes in their function.

RECEPTIVITY

The study of habitat tells us of the receptivity of people to change and the tolerable level of change to which people are able to adapt themselves.

SOCIAL CONTACT

The validity of the community centre for all types of people is related to their previous experience of social contact whether it be by personal visits to neighbours and friends, and telephone calls, or by communal meetings at the "Social Centre."

MIKE FINBOW

I.U.A. CONGRESS

THEME OF THE CONGRESS

New Techniques and Materials—Their Impact on Architecture

Three main papers will be given: (1) "An historical survey of architectural change caused by the emergence of new techniques and materials," given by Professor Henry Russell Hitchcock (U.S.A.).

(2) "The influence of reinforced concrete and technical and scientific progress on the architecture of today and tomorrow," given by Professor Pier Luigi Nervi (Italy).

(3) "The impact on architecture of industrialised building methods," given by Professor Jerzy Hryniewicz (Poland).

The registration fee for students is £5 os. od.

Fees should have been paid by January 1, 1961—and there is now a "late fee" of £2 os. od. in addition to the £5 os. od. on payment of the registration fee.

Student Members will be entitled a. to receive the Congress papers b. to attend the Plenary Sessions and meetings of Working Groups c. to take part in two afternoon excursions

d. to attend evening receptions, for which invitations will be issued

e. to attend the Gala Evening

f. to purchase the Congress Report at a special price.

Student Members will be entitled to the same rates as Full Members except the right to vote. B.A.S.A. is arranging a programme of social events for visiting students.

Three exhibitions will be staged during the congress:

an international exhibition on "New Techniques and Materials"; an international exhibition of students' work; an international architectural book exhibition.

In addition the Arts Council and the R.I.B.A. will jointly stage an exhibition of "British Architecture Today."

The B.A.S.A. exhibition will be a comparative one of British Students' work and will be held in the Henry Jarvis room at the R.I.B.A. during the conference. More details will be published in next B.A.S.A. supplement.

It is hoped that this exhibition will then become available in its entirety to tour the main centres during the next year. Two students from each National Section will be allowed to attend Congress free. Simultaneous interpretation will be provided for all Congress Sessions in English, French, Russian and Spanish. Enquiries to The Organising Secretary, Sixth I.U.A. Congress, R.I.B.A., 66 Portland Place, London, W.1.

DIARY

Welsh School of Architecture, Cardiff
March 8 is the date proposed for the Architectural Schools 7-a-side Rugby Competition to be held at Cardiff. Rugby Secretaries of any school interested in sending a team or teams are invited to write to: Geraint Davies, Rugby Sec., Welsh School of Architecture, Welsh College of Technology, Cathays Park, Cardiff.

Bartlett School

Feb. 2 *Oliver Cox*. LCC High Density Housing Methods

Feb. 7 *Lionel Brett*. The Architect's Place in Urban Renewal

Feb. 14 *Ian Nairn*. Town Design—discussion

Feb. 21 *Colin Buchanan*. Traffic and Town Planning

Feb. 23 *Dr. Parkes*. Greek Private Houses

Feb. 28 *Bill Howell*. Housing

Mar. 7 *Kenneth Campbell*. Housing
All lectures at 6 p.m.

AA School

Jan. 25-Feb. 17 *Exhibition of photographs* by members and students

Feb. 8 *D. M. Gregory-Jones*. Social Building in London, 1890-1914

Feb. 15 *Royston Landau*. The Towers of Sam of Watts

Mar. 8 *Paulo Sica*. Nervi buildings for Rome Olympics
All talks at 6.15 p.m.

ANNOUNCEMENT

Since April 1960 the Northern Polytechnic School of Architecture in London has had a new Head of Department. After 40 years with this school, Mr. T. E. Scott, C.B.E., F.R.I.B.A., Hon.F.I.B.D., retired and was succeeded by Mr. C. G. Bath, F.R.I.B.A., A.M.T.P.I., Hon.F.I.B.D.

ENTRANCE DOOR: OFFICES IN ATHENS

P. A. Sakellarios, architect (material supplied by G. Urégian)



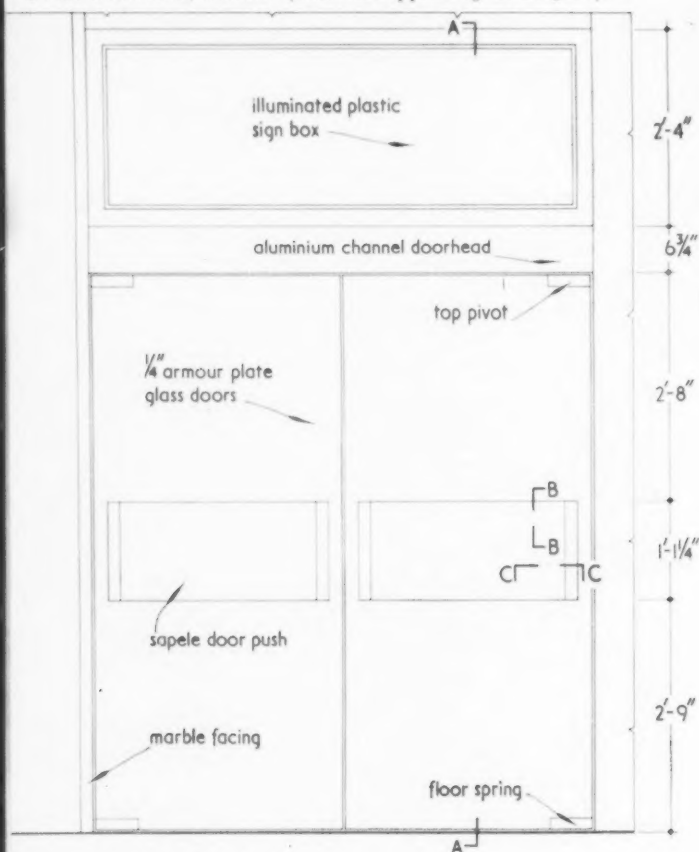
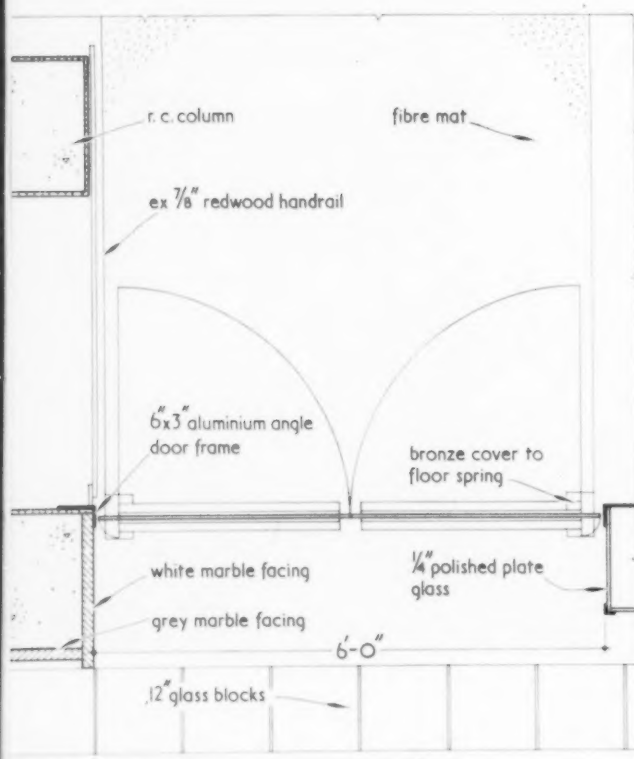
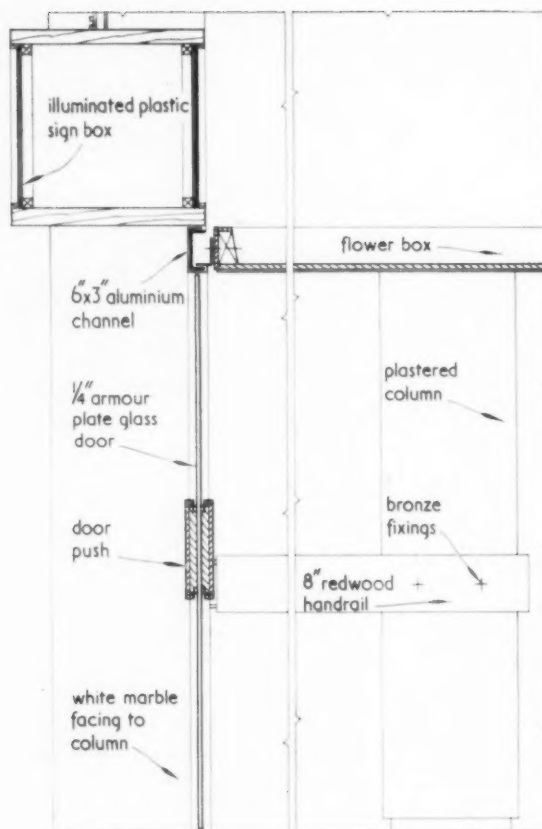
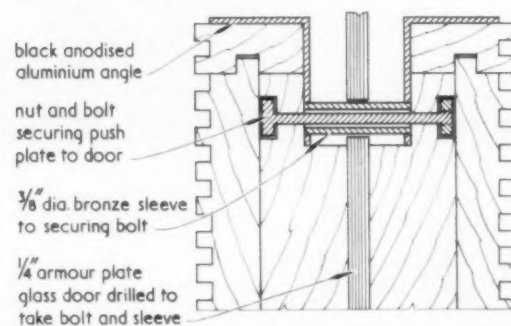
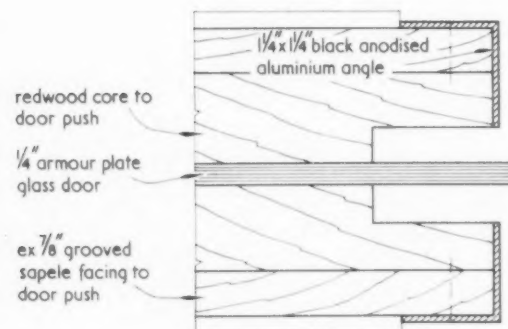
This entrance shows a number of refinements of which the most noteworthy are the coincidence on plan of the canopy and the doormat and enlargement of the door push so that it becomes an architectural plane.

working detail

DOORS: 48

ENTRANCE DOOR: OFFICES IN ATHENS

P. A. Sakellarios, architect (material supplied by G. Urégian)

ELEVATION. scale $\frac{1}{2}'' = 1'-0''$ PLAN. scale $\frac{1}{2}'' = 1'-0''$ SECTION A-A. scale $\frac{1}{2}'' = 1'-0''$ SECTION B-B. scale $\frac{1}{2}$ full sizeSECTION C-C. scale $\frac{1}{2}$ full size

note: figured dimensions in feet and inches are approximate

working detail

MISCELLANEOUS: 39

LIFT LOBBY: OFFICES IN LONDON, N.W.1

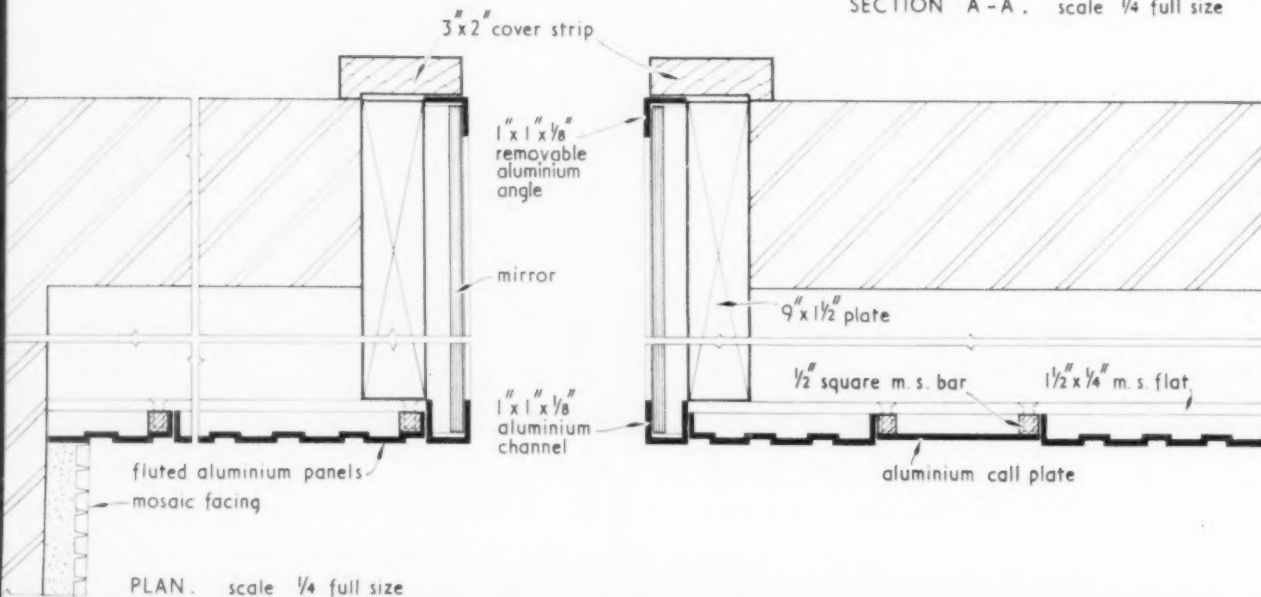
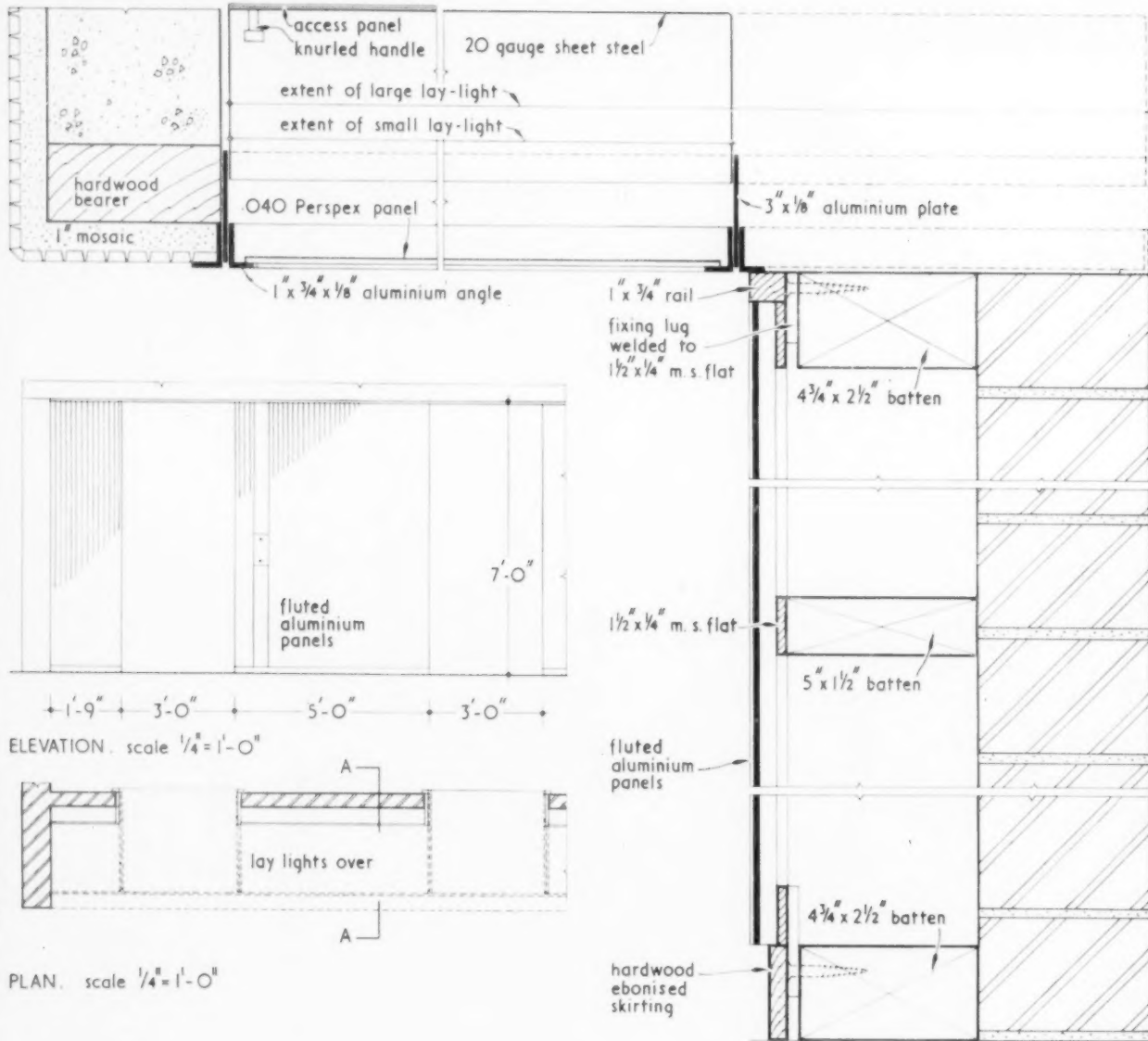
Gollins, Melvin, Ward and Partners, architects



The interest of this detail lies chiefly in the finishes but also in the use of a mirror in the reveal (people like looking at themselves when going out of a lift) and in the care taken to get good lighting on the threshold.

LIFT LOBBY: OFFICES IN LONDON, N.W.1

Gollins, Melvin, Ward and Partners, architects



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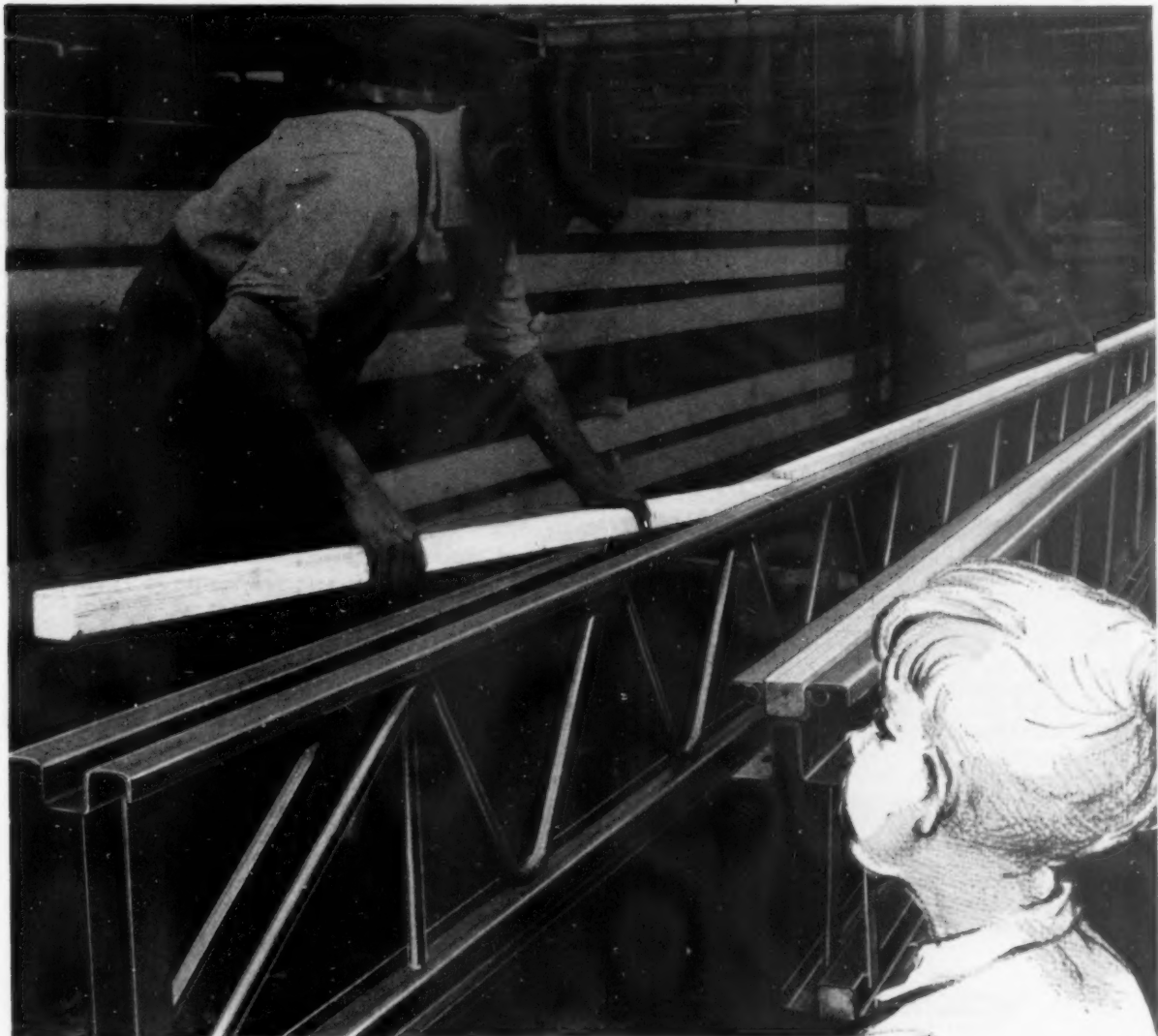
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2 The photograph shows the neat returns to the reveals, typical of Thermalite construction. No special Corners or Closers are necessary; Thermalite Blocks are readily and accurately sawn. The 3" thickness of the inner leaf can clearly be seen.

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Announcements

PROFESSIONAL

Bryden & Woodford, chartered quantity surveyors of London and Sheffield, have taken Brian Mitchell, A.R.I.C.S., into partnership. Mr. Mitchell will continue to be resident at 28, Wilkinson Street, Sheffield 10. (Telephone: Sheffield 23552.)

M. G. Gilling, Dip.ARCH., F.R.I.B.A., and Philip Dod, B.ARCH., A.R.I.B.A., in practice as Willink & Dod, have taken into partnership A. Billinge, Dip.ARCH., A.R.I.B.A. The practice will continue at Cunard Building, Liverpool, under the style of Gilling, Dod & Partners.

Edward S. Wright, A.R.I.B.A., A.R.A.I.A., is now at the Architectural Branch of the Department of Public Works, Queensland State Government, Treasury Buildings, Queen Street, Brisbane, Australia.

The BBC announce that John H. D. Madin, DIP. ARCH. (BIRMINGHAM), A.R.I.B.A., of Birmingham, has been appointed architect for their new Midland Region Headquarters, to be built on a nine-acre site at Pebble Mill Road. It is hoped to begin work on the site in the autumn of 1962.

Nominations for the RIBA Award for Distinction in Town Planning should be submitted to the RIBA by March 1. The name of a candidate must be submitted by three or more sponsors, themselves members of the RIBA, who must give details of the candidate's professional qualifications and experience and evidence of the candidate's actual planning work. Personal applications are not considered, and the award is limited to Fellows, Associates and Licentiates of the RIBA.

The Guildford office of Barber, Bundy & Greenfield, F./A./A.R.I.B.A., has been transferred to 19, Quarry Street. (Telephone: Guildford 62572.)

J. D. Tetlow, B.ARCH., F.R.I.B.A., M.T.P.I., has been appointed Consulting Architect and Planning Adviser to the Tamworth Borough Council on central area redevelopment.

Christian Hamp, A.A.Dip., A.R.I.B.A., and John Boissevain, A.A.Dip., have formed a joint partnership to be known as Hamp & Boissevain. Office address: 37, Newton Road, Bayswater, W.2.

TRADE

Halmatic Ltd. has joined the Hunting Group of Companies.

Conran have moved to 5, Hanway Place, London, W.1. (Telephone: LANGham 4233/4/5/6.)

Wood Preservation Ltd. have moved to 144, Camden High Street, London, N.W.1. (Telephone GULLiver 7071/5.)

P. Winter has been elected executive director of Easicle Porcelain Enamel (1938) Ltd.

Norman Jepson has been elected chairman and managing director of The Walpamur Co. Ltd. L. Hodgkinson has been appointed secretary.

J. Gerrard & Sons Ltd., building and civil engineering contractors, have moved their London office to Shakespeare House, Newport Road, Hayes, Middlesex. (Telephone: Hayes 5276/7/8.)

The Welsh Tinplate & Metal Stamping Co. Ltd., have opened a new showroom at 14/15, Billiter Buildings, London, E.C.3.

The Hon. David Montagu, Managing Director of Samuel Montagu & Co. Ltd., Merchant Bankers, has been appointed a director of Bovis Holdings Ltd., parent company of the B.H. Group of Companies, comprising, *inter alia*, Bovis Ltd., Gilbert-Ash Ltd., Leslie & Co. Ltd., Yeomans & Partners Ltd. and Compactom Ltd.

ANNOUNCING...



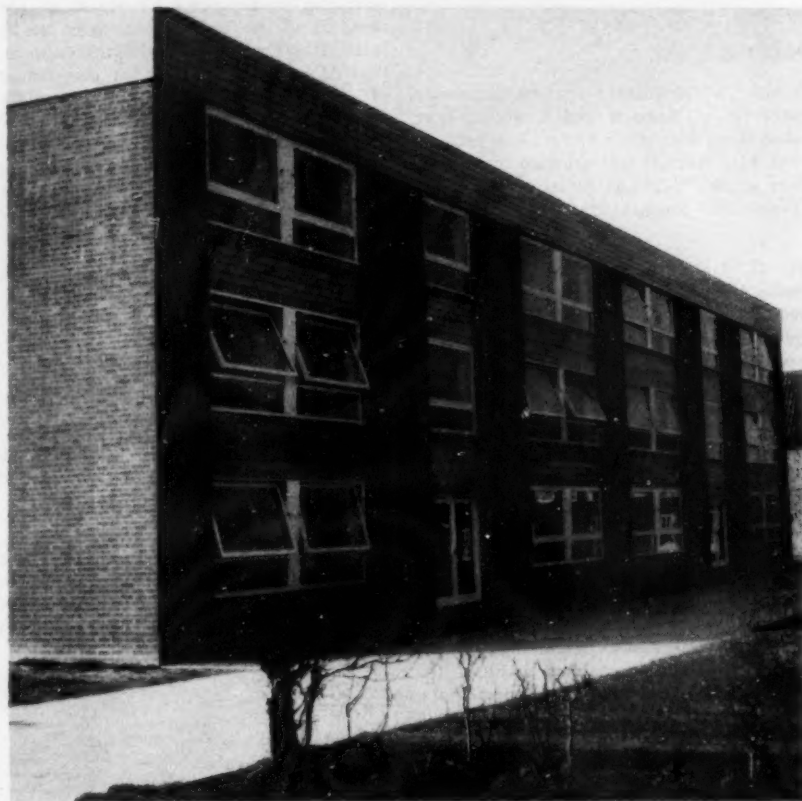
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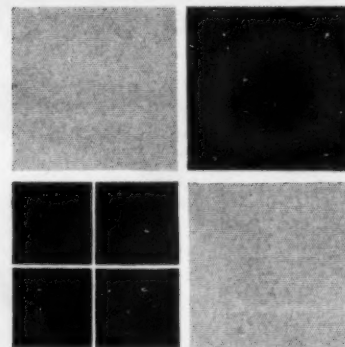
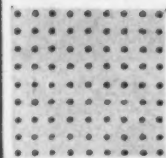
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Study Bedrooms at Cranfield

This block of 42 study-bedrooms for the Royal College of Aeronautics, designed by Stillman and Eastwick-field, is part of a larger scheme with two further blocks laid out to form a courtyard with the existing building. The rooms are all about 150 sq. ft., but vary in shape. They are grouped round two access stairs, seven rooms on each landing with utility rooms, bathrooms and w.c.s. Each room is provided with a fitted wardrobe and cupboard containing a lavatory basin, and a wide low sill running the full width of the outside wall. The structure of load-bearing brick has external facings chosen to match those of the existing building, with timber windows and cedar boarding left natural. The approximate cost of this first block is £35,000, including external works and service connections.



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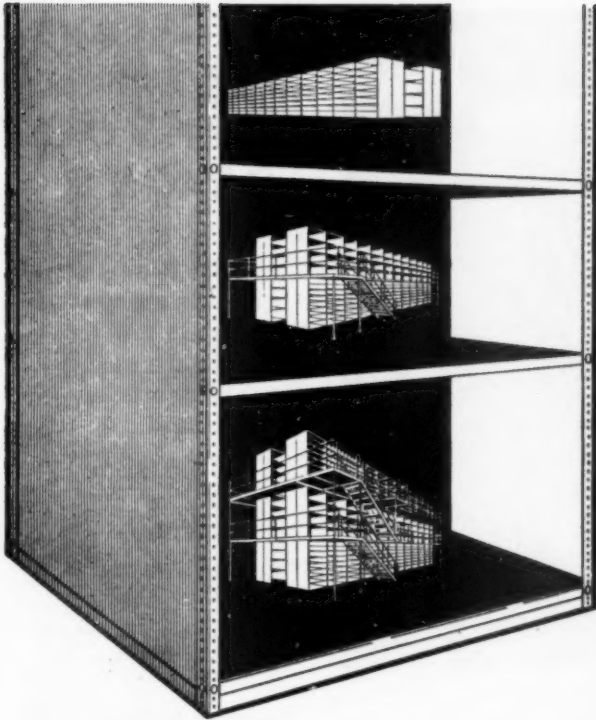
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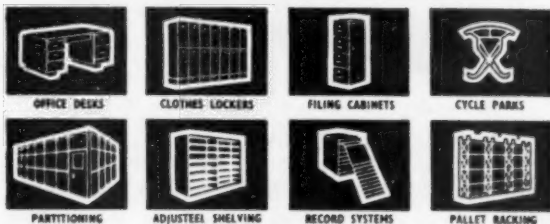
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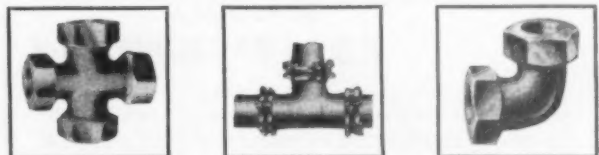
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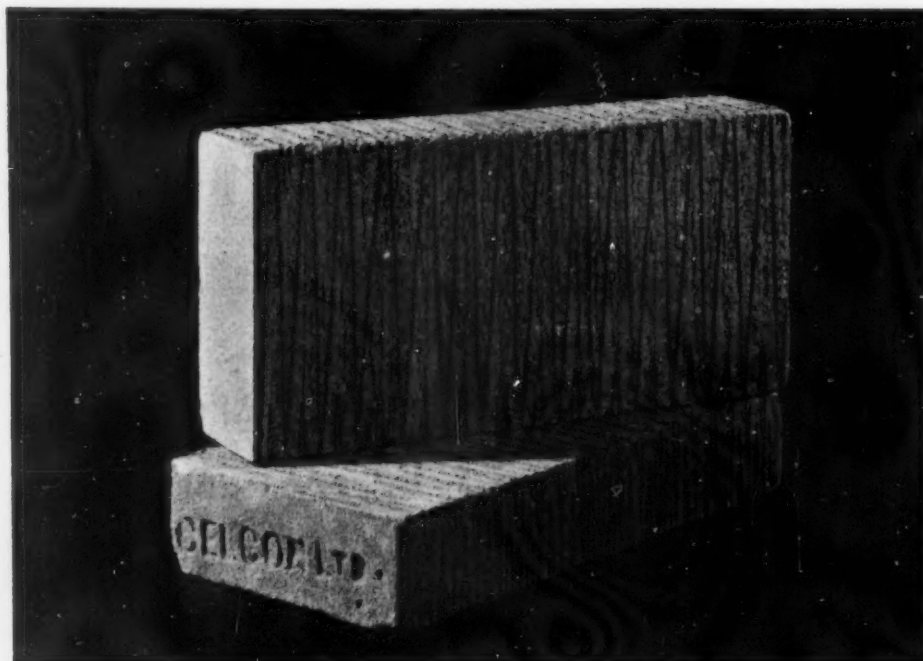
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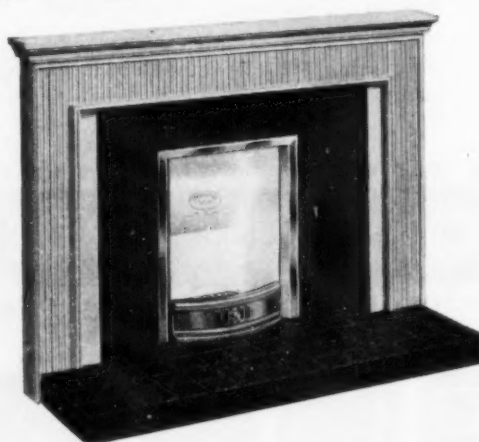
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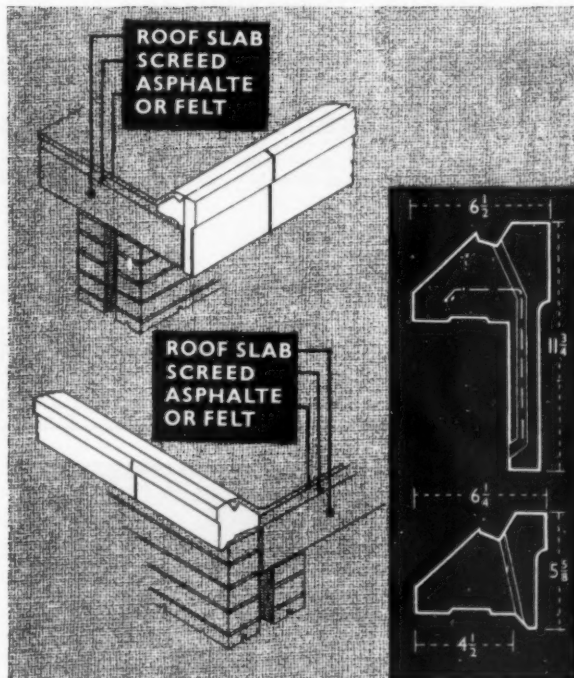
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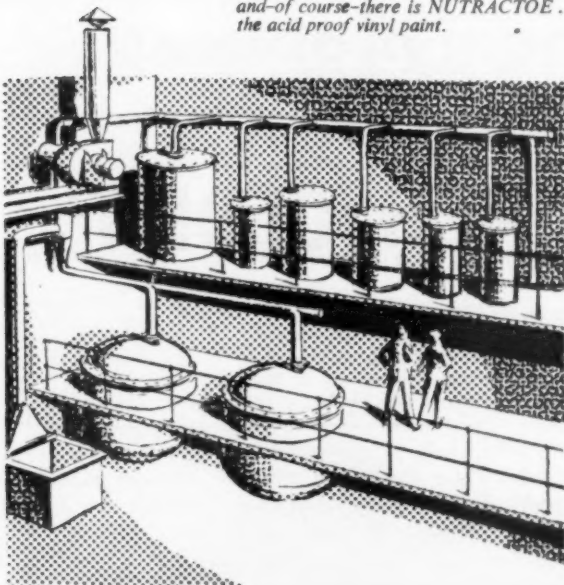
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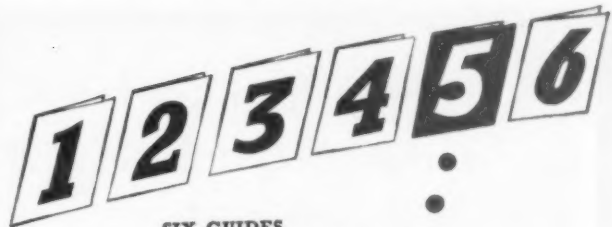
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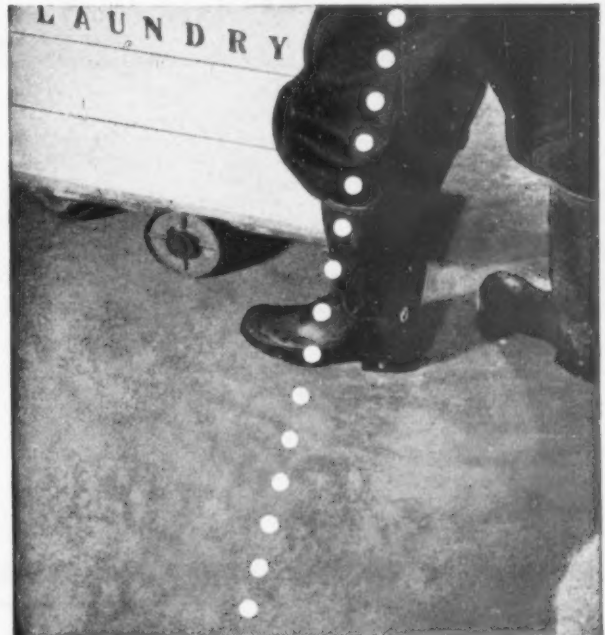
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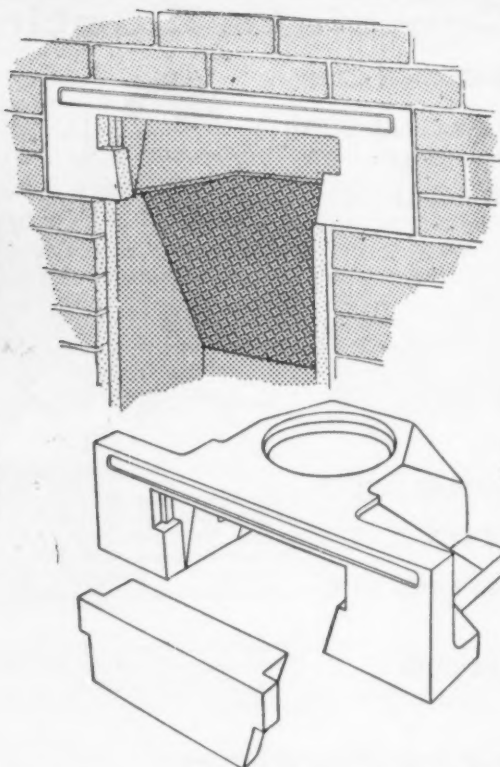
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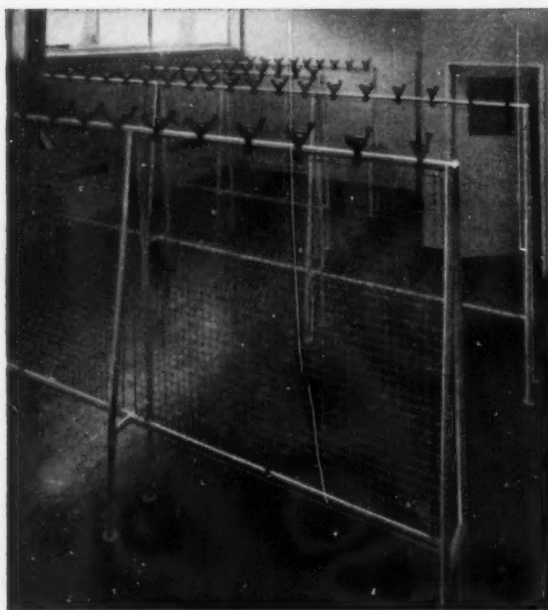
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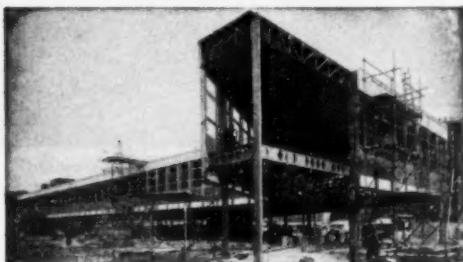
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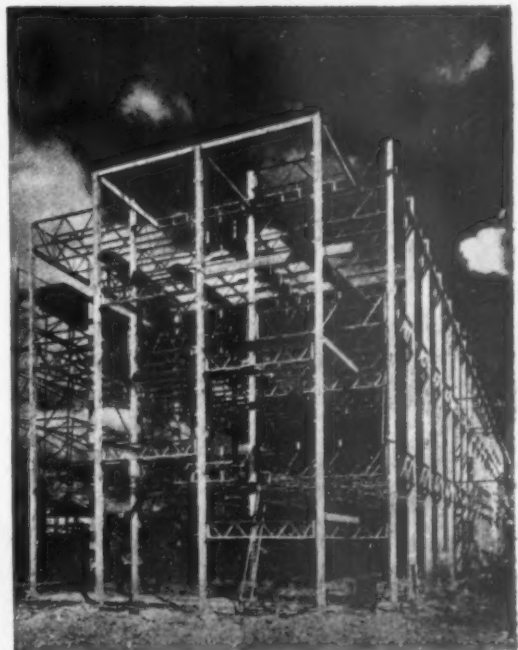
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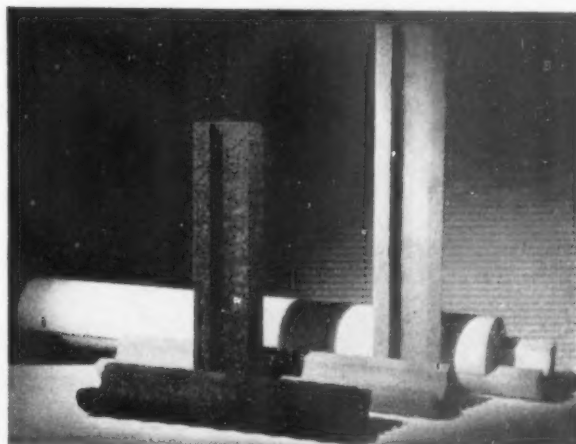
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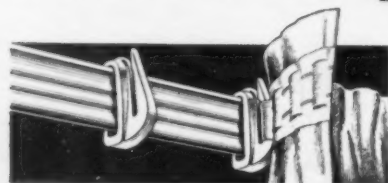
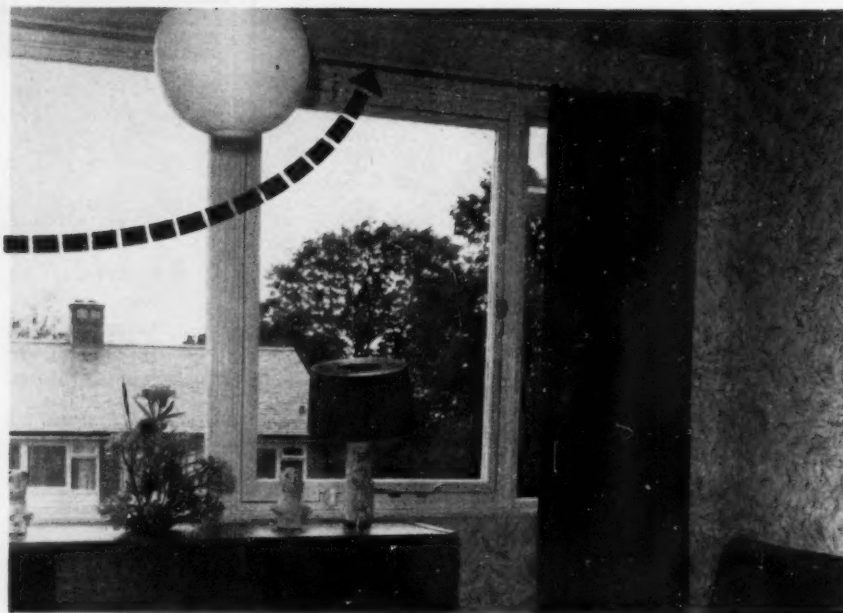


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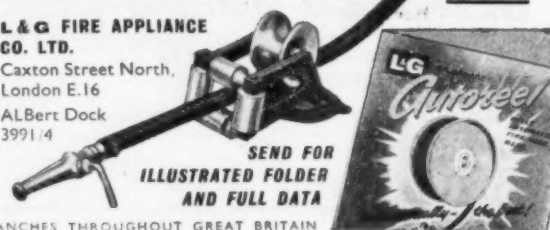
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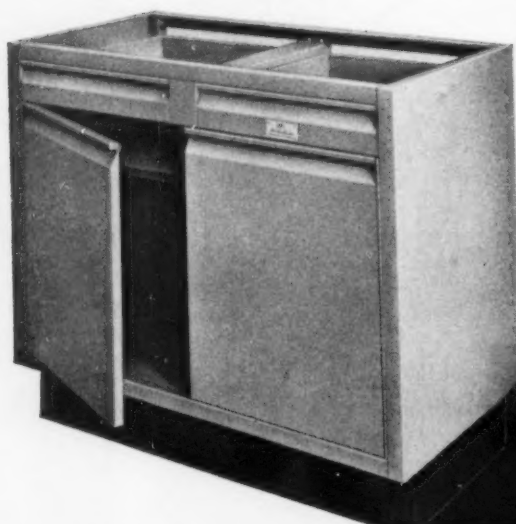
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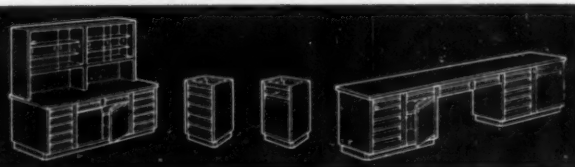
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CLASSIFIED ADVERTISEMENTS

Advertisements should be addressed to the Advertisements Manager, "The Architects' Journal," 9, 11 and 13, Queen Anne's Gate, Westminster, S.W.1, and should reach there by first post Friday morning for inclusion in the following Thursday's paper.

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

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

Public and Official Announcements

36s. per inch; each additional line, 3s.

MIDLOTHIAN COUNTY COUNCIL invite applications for the post of SENIOR QUANTITY SURVEYOR on the Scale £1,055-£1,200. Applicants must be Associate Members of the R.I.C.S. and be prepared to take charge of a small section of Surveyors' Applications, giving details of previous experience and naming two referees, to the County Clerk, County Buildings, George IV Bridge, Edinburgh, 1, as soon as possible, quoting reference RC/4/1961. 5271

AIR MINISTRY require QUANTITY SURVEYING ASSISTANTS Grade III at R.A.F. and Ministry of Aviation stations throughout the United Kingdom. The work includes abstracting and billing, site measurement and preparation of estimates. Candidates must hold ONC (Building or Builders Quantities) or equiv. and have had good experience under Quantity Surveyor or Building Contractor. Knowledge of W.D. Schedule an advantage.

Commencing salary, which is dependent upon age, quals. and exp., ranges from £745 (age 25) to £925 max. in Grade III. There are pension prospects and also opportunities of advancement to numerous posts in the higher grades, vacancies which as a rule are filled by promotion of Grade III staff, viz.:-
Technical Grade II: £925-£1055 123 posts
Technical Grade I: £1055-£1200 42 posts
Technical Grade B: £1200-£1491 6 posts
Technical Grade A: £1385-£1630 6 posts
Overseas tours for which special allowances ranging at present up to £1800 p.a. are payable in addition to a higher salary. Financial assistance and time off allowed for recognised courses of study leading to higher quals. 5 day week with 18 days paid leave a year initially.

Applicants who must be natural born British subjects should write stating age, quals. and exp. to Manager (PE2), Ministry of Labour, Professional & Executive Register, Atlantic House, Farrington St., London, E.C.4. Candidates selected will be interviewed in Air Ministry, London, and certain expenses reimbursed. Only applicants selected for interview will be advised. 5349

CITY OF CANTERBURY
SENIOR ASSISTANT ARCHITECTS
A.P.T. III/IV (£960-£1,310)

Applications are invited for the above appointments in the Department of the City Architect and Planning Officer. Commencing salary according to ability and experience.

The successful candidates will be engaged on one of the following:-
Housing
General Works
Public Buildings
Education
Housing accommodation will be made available if required.

Applications, with names of two referees, to the City Architect and Planning Officer J. L. Berriers, F.R.I.B.A., A.M.T.P.I., by Saturday, 4th February, 1961.

Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury. 5383

ASSISTANT FIELD ADVISER: NATIONAL PARKS COMMISSION. Pensionable post in London for active man or woman at least 25 on 1.1.61. Duties include advising on designation and preservation of National Parks and areas of outstanding natural beauty. Field visits and considerable travelling involved. Candidates must have keen aesthetic sense, appreciation of countryside, and ability to visualise effect of development and afforestation on landscape. Should preferably have degree or diploma in town and country planning, architecture, landscape design, forestry, geography or similar subject, or appropriate professional qualification. Salary £1,258-£1,470. Starting salary may be above minimum. Promotion prospects. Write Civil Service Commission, Burlington Gardens, London, W.1, for application forms, quoting 5258.61. Closing date 28th February, 1961. 5595

CITY OF BIRMINGHAM

Applications are invited from enthusiastic and imaginative fully-qualified ARCHITECTS for a number of new appointments on the SENIOR OFFICERS' SCALE "C" - £1,560 + £70 (3) + £55 (1) - £1,825 per annum - to take part in a large programme of work being carried out by the CITY ARCHITECT'S DEPARTMENT.

The architectural work on hand includes a Major Exhibition Hall, multi-storey Office Blocks, new Central Library, and other buildings forming part of the Civic Centre Development Scheme, in addition to Colleges of Further Education, Schools, and schemes of Comprehensive Housing Development involving multi-storey flats and associated buildings.

Commencing salaries within the scale will be according to capabilities and experience.

Pension Scheme. Five-day week. Medical Examination.

Applications stating age, present position and salary, qualifications, experience and names of two referees, to reach the undersigned by 17th February, 1961.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1. 5493

BOROUGH OF BEXLEY

ARCHITECTURAL DRAUGHTSMAN

Applications are invited for the above appointment. Salary within Grade A.P.T. II (£815-£960 per annum) plus London Weighting.

Candidates should be good draughtsmen and have a general knowledge of building construction and specification work.

Form of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 20th February, 1961. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

5482

BOROUGH OF MAIDENHEAD
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT

ARCHITECTURAL ASSISTANT

Applications are invited for the appointment of an Architectural Assistant on Grade A.P.T. III of the National Scales (£960-£1,140) commencing salary according to qualifications and experience. Preference will be given to Associates of the Royal Institute of British Architects.

Housing accommodation is provided and contribution made towards removal expenses in approved cases. The Council is operating a five-day week.

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

Applications stating age, qualifications, experience, and accompanied by the names of two referees, must be sent to C. T. Read, M.B.E., M.I.C.E., F.R.I.C.S., M.I.Mun.E., 14, Crauford Rise, Maidenhead, as soon as possible but not later than Monday, 13th February, 1961.

Canvassing will be a disqualification and candidates must disclose whether to their knowledge they are related to any member or senior official of the Council.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead. 5421
January, 1961.

CITY OF NOTTINGHAM

ESTATES & HOUSING COMMITTEE

APPOINTMENT OF SENIOR ASSISTANT ARCHITECT, A.P.T. Grade V, £1,310-£1,480

Applications are invited from qualified architects of experience for the post of Senior Assistant Architect at a salary of £1,310-£1,480 in A.P.T. Grade V, to take charge of a small group dealing with the development of housing estates under the direction of the Chief Architect.

There is also an interesting programme of comprehensive redevelopment schemes including multi-storey dwellings, part of which may be undertaken by this group.

The appointment will be subject to the National Joint Council's Scheme of Conditions of Service. Applications stating age, qualifications, experience, present appointment and salary, and naming two referees, should be sent to the Estates Surveyor & Valuer, The Guildhall, Nottingham, by Thursday, 9th February, 1961.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham. 5429

WORCESTERSHIRE COUNTY COUNCIL

Applications are invited for the following posts:
(1) SENIOR ASSISTANT ARCHITECT, Scale Grade "A" (£1,365-£1,565). Candidates should be A.R.I.B.A. and have had considerable experience of school design and running large contracts.

(2) ARCHITECTURAL ASSISTANT, Grade A.P.T. III (£960-£1,140). Candidates for this post should have passed the Intermediate R.I.B.A. Examination.

(3) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£815-£960).

Application forms should be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14, Castle Street, Worcester, not later than 17th February, 1961. (1212.) 5569

COUNTY BOROUGH OF

BARROW-IN-FURNESS
BOROUGH ENGINEER AND SURVEYOR'S
DEPARTMENT
TECHNICAL STAFF

Applications are invited for the following appointments:-

(a) SENIOR ARCHITECT (2 vacancies), Grade IV, £1,140-£1,310.

(b) ARCHITECTURAL ASSISTANT, Grade II-III, £815-£1,140.

(c) PLANNING ASSISTANT (Redevelopment), Grade IV-V, £1,140-£1,480.

In each case the commencing salary will be fixed within the limits indicated.

Qualifications required: (a) A.R.I.B.A., (b) Intermediate, (c) A.M.T.P.I.

Housing accommodation available, alternatively a subsistence allowance will be paid. Removal expenses reimbursed. Car purchase scheme in operation.

The Department works a five-day week and has an interesting and varied programme of schemes.

Full details of the post, conditions of appointment and application forms may be obtained from the Borough Engineer and Surveyor to whom completed forms must be returned not later than Friday, 10th February, 1961.

LAWRENCE ALLEN,
Town Clerk.

Town Hall,
Barrow-in-Furness. 5381

HORNCHURCH URBAN DISTRICT COUNCIL

(Population 123,000 - Area 20,308 acres)

APPOINTMENT OF ADDITIONAL ARCHITECTURAL STAFF

Following a review of establishment, applications are invited for the following additional appointments on the Council's permanent staff:-

PRINCIPAL ASSISTANT ARCHITECT-Grade A.P.T. V (Salary £1,310-£1,480 plus London weighting equivalent).

Applicants must be corporate members of the R.I.B.A. and have sound experience of municipal works.

The successful applicant would be responsible to the Deputy Architect for the detailed organisation of the Department, the establishment of which numbers 15 assistants.

An essential car user allowance would be payable and consideration given to the payment of a proportion of approved removal expenses.

The Council's policy permits advances of up to 100 per cent. of the Surveyor's valuation to be granted to members of the staff, or alternatively, consideration will be given to the provision of housing accommodation.

TWO JUNIOR ARCHITECTURAL ASSISTANTS-Grade A.P.T. I (Salary £645-£815 per annum plus London weighting equivalent).

Applicants for these posts must be probationers of the R.I.B.A. and actively studying for the Intermediate R.I.B.A.

The Urban District is still expanding and has been recommended for Borough Status by the Royal Commission Report.

Saturday mornings normally free from duty. The appointments will be subject to the provisions of the Local Government Superannuation Acts, to the passing of a Medical Examination, the National Joint Council Scheme of Conditions of Service, and one month's notice on either side.

Forms of application, with full details of the appointments, are obtainable from the undersigned, by whom completed application forms should be received by noon on Friday, 17th February, 1961.

F. L. COX,
Clerk of the Council

Council Offices,
Billet Lane,
Hornchurch. 5607

BOROUGH OF SOLIHULL

APPOINTMENT OF ASSISTANT QUANTITY SURVEYORS

Applications are invited from Quantity Surveyors with suitable qualifications and experience for appointment as Assistant Quantity Surveyors in the Architect's section of the Borough Surveyor's Department at a salary in accordance with A.P.T. Grade IV (£1,140-£1,310 per annum) commencing according to experience.

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an Exempted District for education and in April, 1961, is assuming delegated powers for health and welfare services. It has also been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital work on hand and to be undertaken in the future.

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

In appropriate cases the Council will assist in the provision of housing accommodation and half the removal expenses will be paid. Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of three referees, should be submitted to the Borough Surveyor, 90, Station Road, Solihull, not later than Friday, 17th February.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull. 5606

BOROUGH OF SOLIHULL
APPOINTMENT OF SENIOR ASSISTANT ARCHITECTS AND ASSISTANT ARCHITECTS

Applications are invited from Architects with suitable qualifications and experience for the under-mentioned appointments:—
(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade V (£1,310—£1,480).
(b) ASSISTANT ARCHITECT, A.P.T. Grade III-IV (£960—£1,310 p.a.) Commencing salary according to experience.
(c) ASSISTANT ARCHITECT, A.P.T. Grade I-II (£645—£960 p.a.) Commencing salary according to experience.

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an Exempted District for education and in April, 1961, is assuming delegated powers for health and welfare services. It has also been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital work on hand and to be undertaken in the future.

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

In appropriate cases the Council will assist in the provision of housing accommodation and half the removal expenses will be paid.

Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of three referees, should be submitted to the Borough Surveyor, 90, Station Road, Solihull, not later than Friday, 17th February.

W. MAURICE MELL,
Town Clerk.

The Council House, Solihull. 5603

COVENTRY

Applications are invited for the following Architectural posts:—

(a) EDUCATION: A.P.T. V (£1,310—£1,480). To be a member of Group working on an interesting variety of school building projects.

(b) CENTRAL AREA: A.P.T. V (£1,310—£1,480), A.P.T. I, II or III (£645—£1,140). Point of entry according to qualification and experience. Central redevelopment works such as multi-storey shops, flats, offices, car parks and central baths.

Housing accommodation in approved circumstances or 95 per cent. advance for house purchase. Removal expenses loan. Five-day working week.

Application forms from Department of Architecture and Planning, Council House, Earl Street, returnable by 23rd February. 5604

HERTFORDSHIRE

COUNTY ARCHITECT'S DEPARTMENT
PRINCIPAL BUILDING SURVEYOR (salary £1,710—£1,975) required to lead a group of about 20 Building Surveyors engaged on repair and maintenance of County buildings.

Applicants should be registered Architects or Chartered Surveyors with wide experience in the field of maintenance and small works; they should be good administrators interested in working closely with Architects dealing with capital works and be prepared to accept delegated responsibility for the work of the Section as a whole.

An "Essential" car user allowance is payable and previous Local Government experience is not essential.

Further particulars and form of application from Geoffrey Fardell, M.B.E., A.R.I.B.A., County Architect, County Hall, Hertford, to whom they should be returned by 13th February, 1961. 5541

HOLLAND COUNTY COUNCIL

LINCOLNSHIRE

COUNTY ARCHITECT'S DEPARTMENT
Applications are invited from qualified Architects for the appointment of ASSISTANT ARCHITECT on Grade A.P.T. IV—£1,140—£1,310 per annum. The appointment will be subject to the provisions of the Local Government Superannuation Acts, the N.J.C. Scheme of Conditions of Service and a medical examination.

The County Council would consider making a contribution towards the cost of removals. Forms obtainable from the County Architect, should be returned to the undersigned by 16th February, 1961.

H. A. H. WALTER,
Clerk of the County Council.

County Hall, Boston. 5543

WEST SUFFOLK COUNTY COUNCIL

APPOINTMENT OF DEPUTY COUNTY PLANNING OFFICER

Applications are invited from Corporate members of the Town Planning Institute for the appointment of Deputy County Planning Officer. Post pensionable, J.N.C. Scale "C," £1,560—£1,825 per annum, five-day week, car allowance, appointment subject to medical examination. Staff house may possibly be available.

Forms of application from the County Planning Officer, Shire Hall, Bury St. Edmunds, to whom they should be returned by 24th February, 1961.

ALAN F. SKINNER,
Clerk of the West Suffolk County Council.

Shire Hall, Bury St. Edmunds. 5613

METROPOLITAN BOROUGH OF BATTERSEA

Applications are invited for the following permanent appointments:—

- (1) ONE ASSISTANT ARCHITECT—A.P.T. Grade III.
- (2) THREE ARCHITECTURAL ASSISTANTS AND TWO DRAUGHTSMEN—A.P.T. Grade I.
- (3) TWO ASSISTANT BUILDING SURVEYORS—A.P.T. Grade II.
- (4) ONE ASSISTANT BUILDING SURVEYOR—A.P.T. Grade I.
- (5) ONE JUNIOR ASSISTANT BUILDING SURVEYOR—General Division.

Salary ranges:
A.P.T. Grade III—£960—£1,140 per annum.
A.P.T. Grade II—£815—£960 per annum.
A.P.T. Grade I—£645—£815 per annum.

General Division—£260—£780 per annum.
London weighting payable in addition—£40 per annum (at age 26 or over) for grades below A.P.T. III, £45 per annum for Grade A.P.T. III. Commencing salaries will be according to qualifications and experience. Local Government experience is not essential.

For appointment:
(1) Applicants should be Registered Architects or have passed the Final R.I.B.A. Examination and have had several years' through office experience.

(3) and (4). Preference will be given to applicants who are taking examinations of the Royal Institution of Chartered Surveyors (Building Sub-division).

Appointment (5) is for an office junior and offers opportunity to train as a Building Surveyor. The appointments are subject to the Local Government Superannuation Acts 1937-1953. Further particulars and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, Battersea, S.W.11. Closing date 20th February. 5544

BOROUGH OF REDCAR

READVERTISEMENT.
APPOINTMENT OF SENIOR ARCHITECTURAL ASSISTANT
GRADE A.P.T. IV

Applications are invited for the appointment of Senior Architectural Assistant from persons qualified by examination for Associateship of the Royal Institute of British Architects. Housing accommodation will be made available and the Council will consider the payment of removal expenses and the travelling expenses of the successful candidate and his family.

Applications on forms obtainable from me are to be submitted to me on or before Tuesday, 21st February, 1961.

HUGH CALDWELL,
Town Clerk.

Municipal Buildings, Redcar. 5573

METROPOLITAN BOROUGH OF WOOLWICH

ASSISTANT ARCHITECT

Applications are invited for the above permanent appointment in the Borough Engineer's Department. Salary within Grade A.P.T. III (£960 to £1,140) plus London weighting. Superannuation scheme.

Applications, stating experience, qualifications and age, and giving names of two referees, to Town Clerk, Woolwich, S.E.18, by 15th February, 1961. 5575

STAFFORDSHIRE COUNTY COUNCIL

APPOINTMENT OF AREA PLANNING OFFICER

Applications are invited for the appointment of Area Planning Officer to be responsible for both the Central and the Eastern Planning Areas of Staffordshire. The Eastern Area Planning Office is at Lichfield. The salary is J.N.C. Scale "D" (£1,710—£1,975 per annum), and the appointment will be made within Scale "D" at any point commensurate with the qualifications and experience of the applicant.

The Area Planning Officer is responsible for the control of development and for the preparation of Town Maps and Central Area Redevelopment proposals. The area includes historic towns such as Lichfield, Tamworth and Stafford, industrial towns, and large tracts of Green Belt land and open country. The Area Planning Officer consequently will have to play a large part in the design of central area redevelopment schemes and in architectural and amenity proposals generally.

Applicants must be corporate members of the Town Planning Institute and in addition a qualification in architecture would be an advantage.

The Council grant a lodging allowance of 35s. per week for a period of six months and second class railway travel home every two months during the initial six months to married applicants maintaining a home outside the geographical County. Considerations will also be given to the granting of financial assistance in appropriate cases towards removal expenses.

Applications, giving details of age, education, technical training, qualifications, present and previous appointments, experience and the names of two persons to whom reference may be made, should be sent to D. W. Riley, County Planning and Development Officer, 41a, Eastgate Street, Stafford, not later than Tuesday, 14th February, 1961.

Relationship to any member or senior officer of the Council must be disclosed. Canvassing will disqualify.

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

5598

CWMBRAN NEW TOWN

MONMOUTHSHIRE

Applications are invited from suitably qualified Architects for the undermentioned posts. The programme of future work includes large scale residential development of new areas, the New Town Centre and a variety of smaller projects.

(a) SENIOR ASSISTANT ARCHITECT, Grade V, £1,310—£1,480. Candidates must be Associates of the R.I.B.A. with suitable office experience.

(b) ARCHITECTURAL ASSISTANT, Grade II, III, £815—£1,140. Candidates should have passed the Intermediate Examination of the R.I.B.A. and have had some office experience, particularly in the preparation of working drawings.

The posts are superannuable and Conditions of Service are similar to those in Local Government. Housing accommodation is available to rent or purchase if required.

Applications, stating age, experience, details of present and former employment (together with applicable salaries), and the names and addresses of two referees, must reach the undersigned by first post on Monday, 20th February, 1961.

J. C. P. WEST, ESQ.,
A.R.I.B.A., M.T.P.I.,
Chief Architect.

Cwmbran Development Corporation,
Victoria Street,
Cwmbran, Mon. 5605

BOROUGH OF GUILDFORD

Applications are invited for the appointment of an ASSISTANT ARCHITECT, commencing salary at a point within Grade A.P.T. III (£960—£1,140) according to qualifications. Applicants should have passed the Intermediate Examination of the Royal Institute of British Architects, and have had practical experience in general architectural work and housing.

Housing accommodation will be provided if required, and half removal expenses paid.

Five-day week is in operation.
Application, with names and addresses of two referees, must be sent to the Borough Engineer and Surveyor, Municipal Offices, High Street, Guildford, by Tuesday, the 14th February, 1961.

HERBERT C. WELLER,
Town Clerk.

Municipal Offices,
High Street,
Guildford.
23rd January, 1961. 5597

DERBYSHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

SENIOR ARCHITECTS required. Senior Officers' Scale "A," Salary £1,370 × £70 (2) and £55 (1) to £1,565 per annum.

This department provides scope for qualified and enthusiastic architects who possess considerable experience, and have a sound knowledge of modern trends in design and the latest forms of construction. A knowledge of large-scale public building projects such as: Schools, Welfare and Children's Homes, Hostels, Clinics, Occupational Centres, Police, Fire and Ambulance Stations, in addition to Housing will be an advantage.

Local Government Superannuation Scheme. Five-day week. Scheme of allowances towards removal and lodging expenses in appropriate cases. Nationally negotiated conditions of service. Canvassing disqualifies.

Application forms from: F. Hamer Crossley, Dipl. Arch. (Lpool), F.R.I.B.A., County Architect, County Offices, Matlock, Derbyshire, to whom they should be returned as soon as possible. 5582

NIGERIAN COLLEGE OF ARTS, SCIENCE AND TECHNOLOGY

DEPARTMENT OF ARCHITECTURE

IN ARCHITECTURE

Applicants should be Associates of the R.I.B.A. with professional experience, and hold a degree or diploma of a recognised School of Architecture. Preference given to those with teaching experience.

Contract salary scale: £1,164—£1,917 p.a. plus inducement addition £240—£300 p.a. for overseas appointees and gratuity of £25—£37 10s. for each completed three months' residential service. Entry point according to qualifications and experience. Appointments offered for two tours in the first instance.

Partly furnished quarters at one-twelfth basic salary rental. Free passages, including wife, Children's U.K. maintenance grant up to £150 p.a. and passages assistance.

Further information from the Council for Overseas Colleges, 12 Lincoln's Inn Fields, London, W.C.2, to whom applications (eight copies) giving age, qualifications, experience and names of three referees, should be sent by the 23rd February, 1961. 5579

CITY OF CARDIFF

CITY SURVEYOR'S DEPARTMENT

Applications are invited from suitably qualified persons for the following vacant positions:

PRINCIPAL TOWN PLANNING ASSISTANT,

J.N.C. Scale A (£1,485—£1,565).

SENIOR TOWN PLANNING ASSISTANT,

A.P.T. Grade 5 (£1,310—£1,480).

General Conditions of Appointment may be obtained from undersigned, to whom should be sent all applications, in envelopes suitably endorsed, stating age, experience, qualifications and names and addresses of three referees. Closing date: 11th February.

S. TAPPER-JONES,
Town Clerk.

City Hall, Cardiff. 5598

designing for London

New houses, flats, maisonettes, schools, town development schemes (including houses and factories), hostels, youth centres, out county housing, club rooms, shops, supply depots, homes for old people, fire stations, drill towers, pumping stations and sewage works, ambulance stations, maternity and child welfare clinics, health hostels, health training centres, children's homes, reception centres, approved schools, road improvements and associated architectural works.

Adaptations, modernisation, rehabilitation, improvements.

have you thought of joining the L.C.C.?

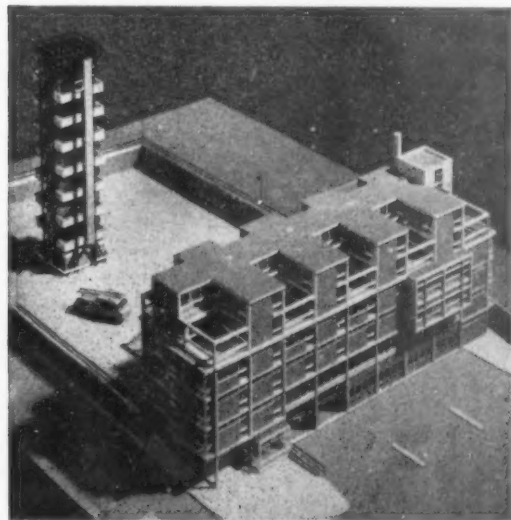
- Unique opportunity to produce buildings for the public service with the highest possible standards of design
- Wide range of buildings enables individuals to be used according to their special abilities
- Contact with the latest developments and techniques through the central materials and development section
- Promotion strictly on merit
- Design opportunities in accordance with ability
- Flexible salary reviews within grades
- Permanency after probationary service
- Recognition grants for good work

Starting salaries for Architects up to £1,500 according to quality and experience.

Whatever changes may result from the Royal Commission Report, the enormous programme of work will have to be done and service now with the L.C.C. provides the best training ground for opportunities in the future.

And there is room for a few part-time architects.

Application forms and further particulars from Hubert Bennett, F.R.I.B.A., Architect to the London County Council, County Hall, S.E.1, quoting reference EK/51/2.



**ROYAL COUNTY OF BERKSHIRE
SENIOR ASSISTANT ARCHITECT, A.P.T.**

Grade V, £1,310-£1,480.
Candidates must be Associates of the R.I.B.A. and have had considerable experience in design and the running of contracts. The post will rank as second in a group of eight.

BUILDING INSPECTOR, A.P.T. Grade IV,

£1,140-£1,310.
Applicants must have a thorough knowledge of building construction, materials and contract procedure and have passed the Final Examination of the R.I.C.S. in the Building Surveying Section.

ARCHITECTURAL ASSISTANT, A.P.T. Grade

II, £815-£960.
Candidates should have passed the Intermediate Examination of the R.I.B.A. One day per week will be allowed for study at a recognised School of Architecture.

The office is engaged on all types of County buildings and owing to the rapid increase in population a very full programme lies ahead.

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

Application forms obtainable from the County Architect, Wilton House, Parkside Road, Reading, are to be returned by the 14th February, 1961. 5576

BEDFORDSHIRE COUNTY COUNCIL

Applications are invited for the following posts:—

- (a) SENIOR ARCHITECTS, Grade A.P.T. IV/V (£1,140-£1,480).
- (b) ARCHITECTS, Grade A.P.T. III/IV (£935-£1,310).
- (c) ARCHITECTURAL ASSISTANTS, Grade A.P.T. I/II (£645-£960).
- (d) SENIOR QUANTITY SURVEYORS, Grade A.P.T. IV/V (£1,140-£1,480).
- (e) QUANTITY SURVEYORS, Grade A.P.T. III/IV (£935-£1,310).

Applicants for posts on Grades IV and V must be members of the R.I.B.A. or R.I.C.S. as appropriate. Consideration will be given for appointment on A.P.T. III to applicants who have passed the Intermediate Examinations. Applicants for posts (c) must be Probationers of the R.I.B.A. and following a recognised course of study for the Intermediate Examination.

Suitable candidates will be appointed to grades and points within grades in accordance with qualifications and experience.

Housing accommodation may be made available in certain circumstances.

The office has an extensive programme of work which includes a new County Hall, Training Colleges, Further Education and School Buildings, Police and Fire Stations, and other public buildings.

Application forms obtainable from the County Architect, Shire Hall, Bedford, to be returned by 18th February, 1961. 5574

**COUNCIL OF THE COUNTY OF ABERDEEN
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited for an appointment as ASSISTANT ARCHITECT in the above Department. Salary £960 x 4 at £35 and 4 at £40 to £1,260 per annum. Placing on the scale may be given according to experience. Applicants must be Associates of the Royal Institute of British Architects. The appointment is superannuable. Application forms and conditions of appointment may be obtained from the undersigned. Closing date for applications 10th February, 1961.

JAMES L. CRAIG,
County Clerk.

County Buildings,
22, Union Terrace,
Aberdeen. 5512

BOROUGH OF LUTON

Applications are invited for the appointment of SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,140-£1,310).

Applicants must be Chartered Architects and the commencing salary will depend on qualifications and experience. Consideration will be given to the provision of housing accommodation and payment of reasonable removal expenses.

Luton is a rapidly developing borough with a large and varied programme of capital works in hand or projected which offers exceptional opportunities of gaining experience.

Application forms from the Borough Architect, Town Hall, Luton, returnable by 15th February, 1961. 5529

BOROUGH OF WEMBLEY

ASSISTANT ARCHITECTS and ARCHITECTURAL ASSISTANTS are invited to apply for appointments on commencing salaries according to experience and qualifications within Grades A.P.T. I-IV (£645 to £1,310 per annum) plus London "weighting" of £15 to £45 per annum according to age and grade to work on a varied programme of public buildings, housing and parks projects. Scale A.P.T. IV-£1,310 is applicable to Associates of the R.I.B.A. or Registered Architects.

The successful applicants will be employed at the Town Hall where excellent transport facilities are available and a five-day week is in operation. Previous local government experience is not essential. The Council is unable to offer housing accommodation.

Application forms, to be returned by 13th February, 1961, are obtainable on request to the Borough Engineer & Surveyor, Town Hall, Wembley, or by telephone-ARNold 1212, Ext. 67. 5533

**CITY OF ROCHESTER
ARCHITECTURAL ASSISTANT
GRADE A.P.T. III/IV (£960-£1,310)**

Applications are invited for the above permanent appointment in the City Surveyor's Department.

Candidates must be Associates of the Royal Institute of British Architects, and have a good general experience. The commencing salary will be according to qualifications and experience.

Housing accommodation available if required. Approved removal expenses paid after one year in appointment.

Applications, with details of age, qualifications, education, and experience, including past and present appointments, together with the names of two referees, should be delivered to James A. Peel, Esq., A.M.I.C.E., M.I.Mun.E., City Surveyor, 66, Maidstone Road, Rochester, not later than Wednesday, 15th February, 1961.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
23rd January, 1961. 5535

**COUNTY BOROUGH OF OLDHAM
BOROUGH ENGINEER & SURVEYOR'S
DEPARTMENT
APPOINTMENT OF SENIOR ARCHITECT**

Applications are invited for the post of Senior Assistant Architect, Grade A.P.T. V (£1,310 to £1,480 per annum).

Applicants must be A.R.I.B.A. or hold a Diploma in Architecture of a recognised University, and preferably have wide experience in Local Authority work.

The Department can offer varied and interesting experience on programmes of redevelopment in both central and urban areas and on major building works.

The appointment is subject to the N.J.C. Conditions of Service and the Local Government Superannuation Acts. The commencing salary could be offered near the top of the Grade to candidates with suitable experience and qualifications.

Housing accommodation is available if required. The Council operate a five-day week.

Applications suitably endorsed, together with the names of two referees, should reach me not later than Wednesday, the 15th February, 1961.

A. L. HOBSON
Borough Engineer & Surveyor.

75, Union Street,
Oldham. 5537

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

Applications are invited for the above appointment at a salary in accordance with Grade IV of the A.P.T. Division of the Scales of Salaries of the National Joint Council commencing at £1,140 per annum and rising by annual increments to £1,310 per annum the point of entry to be determined having regard to the experience of the applicant.

Applicants must be Associates of the R.I.B.A. or Registered Architects.

The appointment will be subject to the provisions of the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service and the satisfactory passing of a medical examination.

Applications, stating age, qualifications and details of experience, together with the names of three referees, should be forwarded to the undersigned by 10 a.m. on Tuesday, 14th February, 1961.

Housing accommodation will be made available if required and removal expenses will be paid by the Council.

A. E. F. WALKER,
Clerk of the Council.

Council House,
Burton Road,
Carlton,
Nottingham.
23rd January, 1961. 5530

ZETLAND COUNTY COUNCIL

Applications are invited for the following appointments in the Architect's Department of the Council, viz. —

- (a) DEPUTY COUNTY ARCHITECT. Salary Scale £1,248 x £63 (4) - £1,500 in Range "A" of the Scheme for Chief Officials.
- (b) ASSISTANT ARCHITECT. Salary within Scale for Professional Assistants (£850-£1,150).

Candidates for both appointments must be Registered Architects and should have had wide experience in the preparation of sketch plans, working drawings and details. Preference will be given to candidates who have had Local Government experience in the planning and supervision of school projects, and who are conversant with the Scottish Education Department's regulations for school planning. Both appointments are superannuable. Housing accommodation will be considered.

Applications, stating age, experience and qualifications, and accompanied by copies of two recent testimonials, must be lodged with the undersigned by 18th February, 1961.

JOHN N. SINCLAIR,
County Clerk.

County Buildings,
Lerwick, Shetland.
21st January, 1961. 5531

**CHERTSEY URBAN DISTRICT COUNCIL
ARCHITECTURAL ASSISTANTS**

Applications are invited for the appointments of Two Architectural Assistants in the Engineer and Surveyor's Department, at a salary in accordance with Grade A.P.T. III (£960-£1,140).

Applications from candidates suitable for Grade A.P.T. I or II would also be considered. Housing accommodation available if required.

Interesting work available on multi-storey housing, community centres, central library, etc.

Applications, stating age, qualifications, present and previous appointments, and experience, together with names and addresses of two referees, should be sent to:—

The Engineer & Surveyor,
The Orchard,
Staines Lane,
Chertsey, Surrey.

before 15th February, 1961.

Canvassing or failure to disclose relationship to a member or senior officer of the Council will be a disqualification.

L. W. WAY,
Clerk of the Council.

Council Offices,
Chertsey. 5621

**COUNTY COUNCIL OF THE WEST RIDING
OF YORKSHIRE
OFFICE OF THE COUNTY ARCHITECT**

Applications are invited for the undermentioned appointment. Five-day week operated.

SENIOR ASSISTANT ARCHITECT—J.N.C.

Scale "A," £1,315-£1,565 per annum.

Applicants, who must be qualified Architects, should possess a sound knowledge of contemporary design and construction and be able to handle major building contracts in their entirety. Applications to be submitted by the 14th February, 1961, on forms to be obtained from and returned to the undersigned.

A. W. GLOVER, F.R.I.B.A.,
County Architect.

Bishopgarth,
Westfield Road,
Wakefield. 5618

**METROPOLITAN BOROUGH OF GREENWICH
APPOINTMENT OF JUNIOR
ARCHITECTURAL ASSISTANT**

Applications are invited for the position of JUNIOR ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary Grade A.P.T. I (£645-£815 per annum, plus London weighting) or A.P.T. II (£815-£960 per annum, plus London weighting). Commencing salary in accordance with experience.

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

Application forms obtainable from the undersigned, to be returned by noon on Wednesday, 1st March, 1961.

G. C. TURK,
Town Clerk.

Town Hall,
Greenwich, S.E.10.
January, 1961. 5671

CITY OF PETERBOROUGH

Applications are invited from qualified Architects with Local Government experience for the appointment of a SENIOR ASSISTANT ARCHITECT in Grade IV, A.P.T.

Housing accommodation, if desired, will be provided.

Forms of application from the City Engineer, Town Hall, Peterborough. Closing date for applications 16th February 1961.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough. 5572

**THE ARCHITECTURAL ASSOCIATION
SCHOOL OF ARCHITECTURE
APPOINTMENT OF ART MASTER**

This appointment is part-time (18 hours per week) and commences on 24th April. Starting salary £1,000 p.a. The Art Master is required to give specialist teaching in drawing and a course of lectures on the History of Art, or a course allied to his own sphere of specialisation. Closing date for applications, 1st March. Full particulars from the Secretary, The Architectural Association, 36, Bedford Square, W.C.1. 5528

ADMINISTRATIVE COUNTY OF LEICESTER

(a) PRINCIPAL ASSISTANT ARCHITECTS.

£1,410-£1,565.

(b) CHIEF ASSISTANT ARCHITECT, £1,310-£1,480.

(c) SENIOR ASSISTANT ARCHITECTS, £1,140-£1,310.

Candidates for (a) must be members of the R.I.B.A., have had sound experience and be capable of acting as Group Leaders on an extensive programme of education buildings. For (b), candidates must be members of the R.I.B.A., have had considerable office experience and be capable of taking charge of contracts from inception to completion, and for (c) should be members of the R.I.B.A., have had office experience and be capable of taking charge of small contracts.

Lodging allowance and removal expenses may be paid to a married man. Apply by Thursday, 16th February, 1961, on forms obtainable from County Architect, 125, London Road, Leicester. 5583

Architectural Assistants

required immediately for expanding programme of interesting commercial and industrial projects in the re-development of departmental stores, shops, etc. Technical qualifications not essential, but candidates should have sound experience in the preparation of sketch schemes, working drawings and details. Knowledge of modern shop-fitting and contemporary decor an advantage. Salary range £750-£1,150 according to experience, plus bonus.

Permanent positions with attractive Superannuation scheme. Five-day week.

Apply in writing, giving age, details of experience and qualifications to:—

A.L. Foreman, A.I.A.A., Architect,
Royal Arsenal Co-operative Society Ltd.,
Commonwealth Buildings,
21 Woolwich Church Street,
London, S.E.18.

Cadbury's

require

ARCHITECTURAL ASSISTANTS

of Final or Intermediate R.I.B.A. standard either for a post at their **Bournville** Factory or for a post at their new Factory at Moreton, Wirral, Cheshire for work on a varied and interesting programme. Experience in industrial and commercial building design desirable. Five day week, attractive working conditions and amenities, pension scheme. Salary according to qualifications and experience.

Applications stating age, qualifications and salary required should be addressed to

Chief Architect,
Cadbury Brothers Ltd.,
Bournville, Birmingham

Architects Architectural assistants

We have vacancies in the Architects' Department in LONDON and EPSOM for qualified men and those who have passed an Intermediate R.I.B.A. Examination.

These are permanent positions: luncheon vouchers, five day week, pension scheme.

Please write fully in confidence to:

THE PERSONNEL MANAGER,
W. S. ATKINS & PARTNERS,
158 VICTORIA STREET,
LONDON, S.W.1.

YORKSHIRE BANK LIMITED

(ESTABLISHED 1859)

offers a

SECURED FUTURE

in Leeds to an

ARCHITECTURAL ASSISTANT

Commencing Salary in the range £815—£1,140

Candidates must have passed the Intermediate Examination of the R.I.B.A.

Pension Scheme

Favourable House Purchase Terms

Staff Luncheon Club

Well-equipped Sports Ground

Possession of a driving licence an advantage

Apply to:

The Manager, Premises Department (351),
Yorkshire Bank Ltd., P.O. Box 155,
Infirmary Street, Leeds, 1

Expenses for interview will be refunded



NO MATTER HOW

LARGE

OR HOW SMALL

If you have a catering equipment problem Stotts of Oldham are at your service. No matter if your enquiry is for a complete scheme or just a single item, our experienced designing and installation staff will be made immediately available.



For further details of service & equipment please send this form.

NAME

ADDRESS

"Stotts of Oldham" VERNON WORKS OLDHAM LANCs

SOMERSET

REORGANISATION OF COUNTY ARCHITECT'S DEPARTMENT

Bernard Adams and Martin Kenchington, the new County Architect and Deputy, are setting up a new group system to handle about £2 million worth of buildings a year. Proposals include a new town centre, an experimental approved school (first in UK since 1938), a residential youth centre, area and village colleges, a farm institute, development of a college of adult education as well as the normal County buildings.

ARCHITECTS AND QUANTITY SURVEYORS of first rate ability are needed; lively minds are more important than previous experience. Job architects and surveyors will be responsible for all stages from briefing to final account. In addition to running jobs, some architects will do development or specialist work on modular co-ordination, technical information, furniture, UR, landscape, etc.

- 3 Assistant County Architects Scale 'D' £1,710-£1,975, to lead groups of about 8 architects directly under the County Architect.
- 5 Senior Architects Scale 'A' £1,340-£1,565.
- 7 Senior Architects A.P.T.V. £1,310-£1,480, and a number of Architects in A.P.T.IV max. £1,310 and A.P.T.III max. £1,140.
- 1 Senior Quantity Surveyor Scale 'A' £1,340-£1,565, to set up a cost planning service and be deputy to F. P. Goodsman, the Chief Q.S.
- 2 Senior Quantity Surveyors A.P.T.V. £1,310-£1,480, to lead small teams of surveyors, and a number of Quantity Surveyors in A.P.T.IV max. £1,310, A.P.T.III max. £1,140, and A.P.T.II max. £960.

Write to County Architect, The Crescent, Taunton, or telephone one of those named above at Taunton 3451 for details and form by February 16th 1961.

**LONDON ELECTRICITY BOARD
ARCHITECTURAL DRAUGHTSMAN**

Applications are invited for the above position under the supervision of an Architect in the Chief Engineer's Department in Central London (Waterloo).

The post is graded under Schedule "B" of the National Joint Board Agreement, as Grade 13, Class BX, and the commencing salary will be in the range of £780 to £1,065 per annum, inclusive of London Allowance.

Application forms obtainable from the Construction Engineer, Lesco House, Stamford Street, London, S.E.1. Please quote ref. PER/V 3162 A. 5557

WEST SUFFOLK COUNTY COUNCIL

Applications are invited from suitably qualified persons for the post of JUNIOR ARCHITECTURAL ASSISTANT within A.P.T. Grade 1 (£645-£815).

N.J.C. Service Conditions; post pensionable, medical examination.

One day per week will be allowed for study at a recognised school of architecture.

Application forms obtainable from The County Architect, 13, Westgate Street, Bury St. Edmunds, Suffolk, to be returned as soon as possible. 5563

**METROPOLITAN BOROUGH OF GREENWICH
APPOINTMENT OF PRINCIPAL
ARCHITECTURAL ASSISTANT**

Applications are invited for the appointment of a PRINCIPAL ARCHITECTURAL ASSISTANT in the Borough Engineer and Surveyor's Department. Salary grade A.P.T. V (£1,355-£1,525 per annum, including London weighting). Commencing salary in accordance with qualifications and experience.

Candidates must be Registered Architects, preferably Associates of the R.I.B.A., with experience in housing and other municipal projects.

Application forms, obtainable from the undersigned, to be returned by noon on Wednesday, 1st March, 1961.

G. C. TURK
Town Clerk.

Town Hall,
Greenwich, S.E.10.

January, 1961.

5570

KENT COUNTY COUNCIL

Applications are invited for the appointment of ASSISTANT ARCHITECTS in the office of the County Architect. Salaries within scales £1,310-£1,480, £1,140-£1,310 and £960-£1,140 according to qualifications and experience.

The Council's expanding building programmes contain many large and interesting projects including schools, colleges, residential homes and other public buildings.

Further details and application forms from County Architect, Springfield, Maidstone. Closing date 13th February, 1961. 5488

Architect has vacancies for ARCHITECTS in both Senior and Junior capacities. Group working in operation on large and small projects consisting of Cinemas, Bowling Centres, Studios, Shops, Offices, etc. Salaries in accordance with ability. Canteen facilities and free Staff Pension Scheme. Applicants should have initiative, aptitude in design and construction, and should write or phone to C. J. Foster, L.R.I.B.A., Architect to Associated British Picture Corporation Ltd., 50/54, Beak Street, London, W.1. GER. 9234. 5596

MIDLOTHIAN COUNTY COUNCIL invite applications for the posts of ARCHITECTURAL ASSISTANTS (UNQUALIFIED) on the Scale £915-£1,055. Applications, giving details of previous experience and naming two referees, to The County Clerk, County Buildings, George IV Bridge, Edinburgh, 1, as soon as possible, quoting reference RC/2/1961. 5272

BOROUGH OF EDMONTON

**ASSISTANT QUANTITY SURVEYORS
BOROUGH ARCHITECT'S DEPT.**

Applications are invited from suitably qualified persons for the appointment of Assistant Quantity Surveyors. Salary within Grade A.P.T. II, £815-£960 plus London weighting. Training and financial assistance scheme, five-day week.

Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, must be delivered by the 14th February, 1961. 5539

**FERMANAGH COUNTY EDUCATION
COMMITTEE**

**NORTHERN IRELAND
ARCHITECTS' DEPARTMENT**

ASSISTANT ARCHITECT required for an estimated period of not less than five years. Salary Scale: £805 to £1,260 (under review).

Qualifications—Registered Architect, A.R.I.B.A., and/or University Degree or Diploma in Architecture.

Post subject to the provisions of the Local Government (Superannuation) Act (Northern Ireland) 1950. Commencing salary determined within Scale by age, experience and qualifications.

Form of application and conditions of appointment may be obtained from the undersigned, with whom completed applications must be lodged not later than Thursday, 16th February, 1961.

Other things being equal, preference will be given to ex-Service candidates possessing the required qualifications.

J. MALONE
Chief Education Officer.

Education Office,
County Buildings,
Enniskillen,
Northern Ireland.

23rd January, 1961.

5560

ARCHITECTS FOR CORREY NEW TOWN

For young keen ARCHITECTS a few vacancies exist in the Chief Architect's Department which will offer unique experience of absorbing work in a rapidly developing New Town.

Commencing salaries are as high as £1,140.

The appointments carry generous increments and emoluments; work will be available for years ahead and there are excellent prospects of promotion.

Good housing is available in pleasant surroundings, removal expenses are paid and there is a Superannuation Scheme under Local Government conditions.

Write at once for an interview stating age, present appointment and salary, details of qualifications and experience, and the names of two referees.

R. F. BROOKS GRUNDY, ESQ.,
General Manager.

Corby Development Corporation.

Speaner House,
Corby,
Northants.

5564

SENIOR ARCHITECTURAL DRAUGHTSMAN required. Capable of supervising a Drawing Office, with ability to prepare plans, working drawings, details, specifications, rough estimating, site surveys and levelling. Superannuation Fund. Salary £875-£950 per annum.

Applications, in writing, to be addressed to:—

Divisional Manager,
British Road Services Limited,
30, Harborne Road,
Edgbaston,
Birmingham, 15. 5626

**STAFFORDSHIRE COUNTY COUNCIL
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited for posts within the following salary ranges:—

ASSISTANT ARCHITECTS:
£1,310-£1,480,
£1,140-£1,310,
£960-£1,140.

ARCHITECTURAL ASSISTANTS:

£815-£960.

The Architect's Department is a busy and expanding office, offering valuable experience within groups working on a wide variety of projects, including Fire Stations, Colleges, Schools, Police Stations, Offices, Ambulance Stations, Clinics, Libraries, Hostels, etc.

The Council may be able to assist with housing accommodation in cases of need, and also has a scheme for loans to employees wishing to purchase their own houses.

Good working conditions; assistance with removal expenses; post entry training, etc.

Forms of application from P. Woodcock, F.R.I.B.A., County Architect, Green Hall, Lichfield Road, Stafford.

Closing date: 15th February, 1961.
T. H. EVANS,
Clerk of the County Council. 5624

**CITY OF ST. JOHN'S
NEWFOUNDLAND-CANADA**

Applications are invited for the following appointment:—

PLANNING ASSISTANT, at a salary of not less than \$5,000 per annum, depending on experience and qualifications.

Duties will include survey and analysis for completion of a Development Plan, re-zoning and implementation of development control. The appointment offers scope for independent and responsible work for a Metropolitan Area of 100 sq. miles and a population of 80,000.

Applicants must have considerable practical experience, preferably in a local Government Office and should possess professional qualifications. Appointment will be on a contract for two years in the first instance with a view to a permanent appointment for the selected officer. Successful applicant will be expected to commence duties in May or June.

Please reply to the undersigned with details of age, experience, present salary and qualifications together with copies of recent testimonials before 31st March, 1961.

TUDOR JOHN,

City Planning Officer.

City Hall,
St. John's,

Newfoundland.

5496

**COUNTY COUNCIL OF STIRLING
COUNTY ARCHITECT'S DEPARTMENT**

Applications are invited to fill a number of vacancies in the School and Housing Sections. The vacancies provide excellent opportunities for Assistants with good experience in contemporary design and construction.

(a) SENIOR ASSISTANT ARCHITECTS.
Salary £1,150 to £1,320. Applicants must hold A.R.I.B.A. and have good general experience.

(b) PROFESSIONAL ASSISTANTS' GRADE.
Salary £850 to £1,150. Applicants must hold A.R.I.B.A. and placing will be in accordance with experience.

Appointments are superannuated and subject to medical examination.

Applications, stating age, qualifications and experience, together with names of two referees, should be lodged with A. T. Smith, A.R.I.B.A., F.R.I.A.S., County Architect, Spittal Street, Stirling, not later than 28th February, 1961.

JAMES D. KENNEDY,
County Clerk.

Viewforth,
Stirling.

5601

AIR MINISTRY require SENIOR WORKERS UP in Quantities Division in London. Must be fully experienced and competent to Work UP entire Bills of Quantities. Candidates must hold O.N.C. or C. & G. (Quantities) or equivalent technical qualifications. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 12 days paid leave a year initially. Salaries on annual incremental basis ranging from £975 (age 30 or over) to £1,115. Commencing salary according to qualifications and experience. Applicants, who must be natural born British subjects, should write stating age, qualifications and experience to Manager (PE 519), Ministry of Labour, Professional & Executive Register, Atlantic House, Farrington Street, London, E.C.4. No original testimonials should be sent. 5499

BOROUGH OF EDMONTON

BOROUGH ARCHITECTS' DEPARTMENT
Applications are invited for the following appointments:—

REDEVELOPMENT ASSISTANT—Salary within Grade A.P.T. V, £1,310-£1,480 plus £45 London weighting.

SENIOR ASSISTANT ARCHITECTS—Salary within Grade A.P.T. IV, £1,140-£1,310 plus £45 London weighting.

Applications on forms obtainable from the Town Clerk, Town Hall, Edmonton, N.9, must be delivered by the 11th February, 1961. 5553

**GLASGOW CORPORATION TRANSPORT
VACANCY FOR ARCHITECTURAL
DRAUGHTSMAN**

Applications are invited for the appointment of an Architectural Draughtsman. The salary will be in accordance with the Scale Grade E.D. III (£785-£945).

Applicants must have served a recognised architectural apprenticeship, and have appropriate technical education.

Applications should be lodged with the Subscriber not later than 14 days after the date of this advertisement.

E. R. L. FITZPAYNE,
General Manager.

46, Bath Street, C.2.

19th January, 1961.

5510

**NORTHUMBERLAND COUNTY COUNCIL
APPOINTMENT OF DEPUTY COUNTY
ARCHITECT**

Applications are invited for the appointment of Deputy County Architect of Northumberland. Candidates must be Associate Members of the Royal Institute of British Architects, and preference will be given to those having appropriate local government experience. Salary £2,280 rising by annual increments of £100 to £2,580.

Further particulars and application forms from the Clerk of the County Council, County Hall, Newcastle upon Tyne, 1, to whom applications should be sent not later than the 25th February, 1961. 5516

UNIVERSITY OF ADELAIDE

The University invites applications for the following new posts:

IN THE FACULTY OF ARCHITECTURE
SENIOR LECTURERS (2).

Salary scale: £2,450-£90-£2,900, with superannuation on the F.S.S.U. basis. The initial salary may be fixed within the scale in accordance with the successful candidate's qualifications and experience.

Further information: (a) The Calendar of the University may be consulted in the Library of any University which is a member of the Association of Universities of the British Commonwealth at the office of the Association. Inside the covers are plans of the University buildings and site and of the Waite Agricultural Research Institute at Glen Osmond (four miles from the University). (b) A potential candidate for any post should also seek from the Registrar of the University or from the Secretary, A.U.B.C., 36, Gordon Square, London, W.C.1, the following documents: (i) General Conditions of Appointment, which include particulars of tenure, superannuation, removal expenses, invalidity and study leave; (ii) a statement giving further particulars of each post and of such matters as help in housing, conference grants and special support for research; (c) The University will gladly supply any further information desired on request to the Registrar.

Applications, in duplicate, should give the information listed in the final paragraph of the General Conditions of Appointment, and should reach the Registrar, The University of Adelaide, Adelaide, South Australia, not later than February 28, 1961. 5524

ARCHITECT, Grade III, for design and construction of buildings in parks and open spaces. Excellent opportunity for experience of collaboration with landscape architects. Up to £1,250 according to qualifications and experience. Apply Chief Officer, L.C.C. Parks Department (A1 A/199/2), County Hall, S.E.1 (phone Waterloo 5600, Ext. 8076). 5540

MIDLOTHIAN COUNTY COUNCIL invite applications for the post of ASSISTANT ARCHITECT (QUALIFIED) on the Scale £850-£1,150. Applicants should hold A.R.I.B.A. Applications, giving details of previous experience and naming two referees, to The County Clerk, County Buildings, George IV Bridge, Edinburgh, 1, as soon as possible, quoting reference RC/3/1961. 5273

Competition

36s. per inch, each additional line 3s.

BURGH OF MOTHERWELL AND WISHAW NEW CIVIC CENTRE

THE Town Council of the Burgh of Motherwell and Wishaw invite Architects resident in the United Kingdom to submit designs for a Civic Centre, to include Public Halls, Municipal Offices and Shopping Development.

Assessor: A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., A.M.T.P.I.

The competition will be run in two stages, the six successful competitors in the first stage taking part in the second stage. Each of these six competitors will receive the sum of £500, and the premium for the design placed first will be £1,000 (to be merged with the fee).

The last day for submitting designs in the first stage is 1st June, 1961.

Last day for questions is 1st April, 1961.

Conditions may be obtained from the Town Clerk, Town Hall, Motherwell. Deposit £1 ls.

An applicant for the Conditions must state his registration number.

ALEXANDER MCINTOSH,
Town Clerk.

Town Hall,
Motherwell.
24th January, 1961. 5552

Tenders Invited

36s. per inch, each additional line 3s.

BOROUGH OF OLDBURY GYMNASIUM BLOCK

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SENIOR ASSISTANT ARCHITECTS required for responsible positions in progressive Manchester Office. **ARCHITECTURAL ASSISTANTS** also required. Intermediate standard or above. Salary by arrangement. Box 5565.

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ASSISTANT ARCHITECT (A.R.I.B.A.) required by Horne Brothers Ltd., men's outfitters, for design of new shops and modernisation. Permanency for right man, pension scheme, five-day week. Apply C. E. Horne, 50 Newman Street, London, W.1. Museum 3321. 5577

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ARCHITECT (A.R.I.B.A.) required for interesting work on housing and industrial projects to work with a minimum of supervision in Leeds Office. Apply with details and salary required to the Group Architect, Hickson & Welch Ltd., Ings Lane, Castleford. 5588

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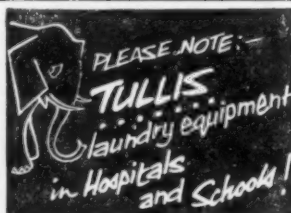
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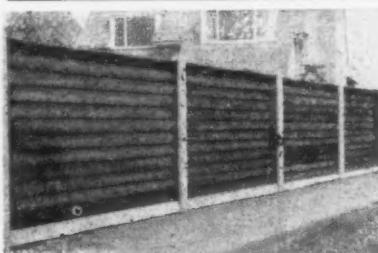
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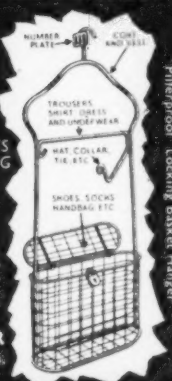
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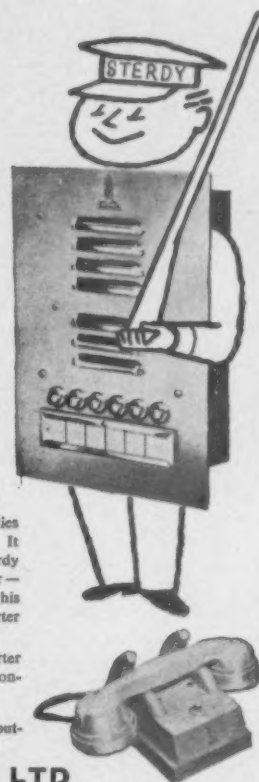
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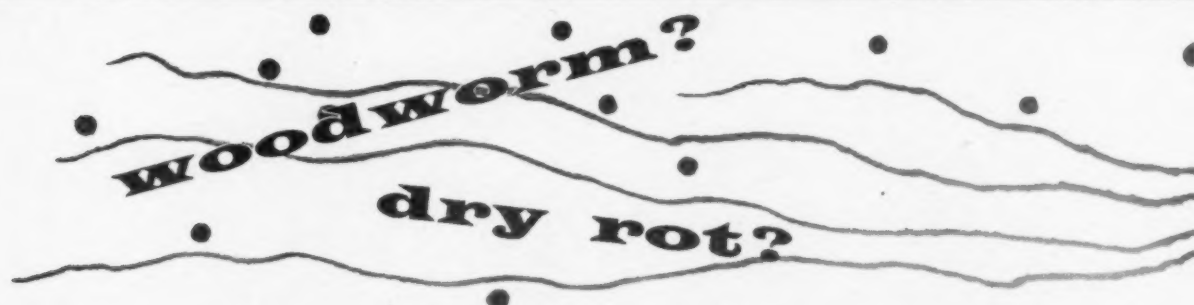
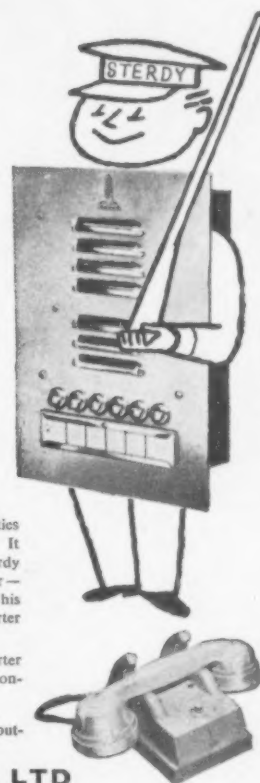
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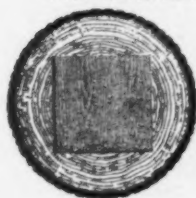
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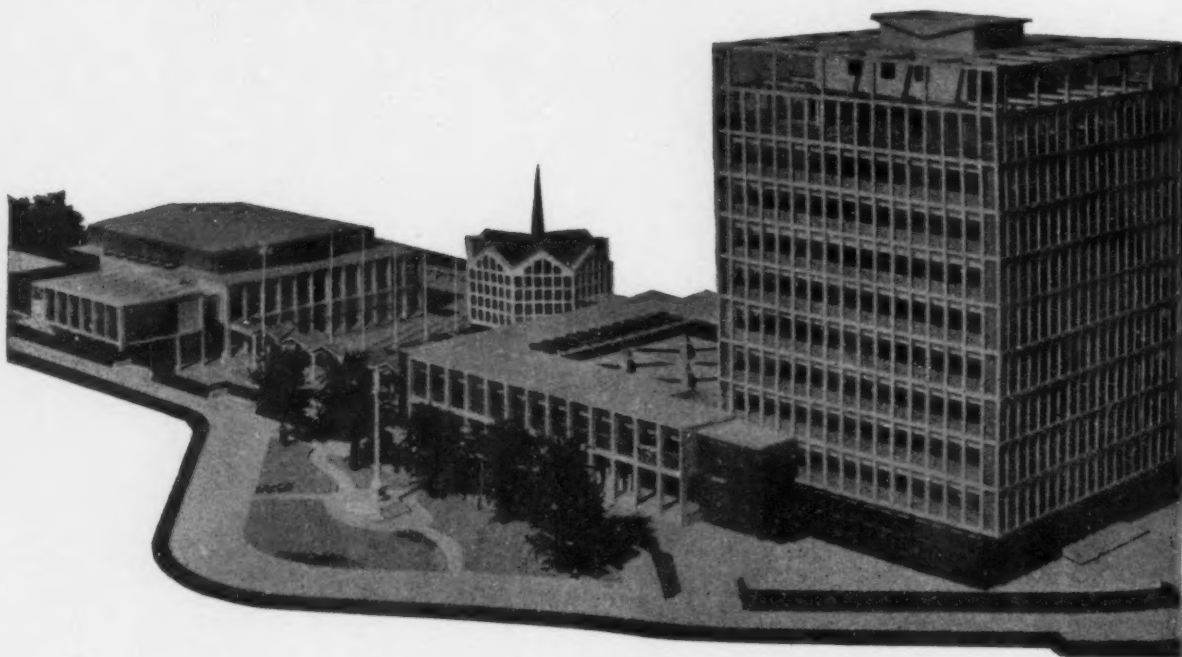
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