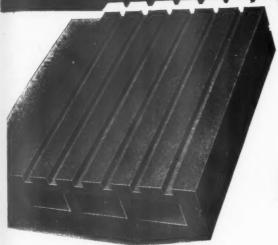
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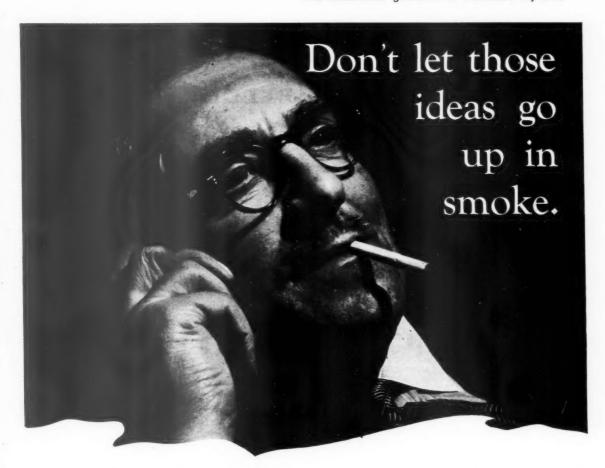
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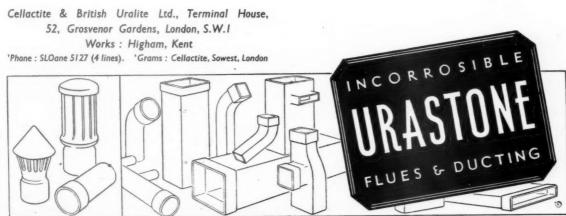
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Control of Civil Building DEFENCE (GENERAL) REGULATIONS, 1939, REGULATION (S.R. & O. 1941 No. 1596 and S.R. & O. 1941 No. 1986)

### TO ALL PERSONS INTENDING TO CARRY OUT ANY BUILDING OR CONSTRUCTION WORK

AS from 1st JANUARY, 1942, a revised Defence Regulation 56A will come into force. Under the new Regulation, no work of

REPAIR (including repair of WAR DAMAGE) MAINTENANCE OF PREMISES DECORATION

REDECORATION

CONSTRUCTION RECONSTRUCTION ALTERATION DEMOLITION

is permitted in the United Kingdom if the total cost of the work exceeds £100, unless a licence to carry out such work has first been obtained from a Regional Licensing Officer of the Ministry.

In addition, no work of the kind mentioned above may be undertaken on any single property in the United Kingdom if the cost of such work together with the cost of any other such work carried out on that single property during the 12 months immediately preceding exceeds the sum of £100 unless a licence has first been obtained in respect of such work.

### NOTE: This limit of £100 includes cost of labour in every case.

Local or Highway Authorities and Public Utility Undertakings require to obtain an authorisation from the appropriate Government Department for work of construction, reconstruction, or alteration only, the cost of which exceeds £100.

Copies of the new Defence Regulation 56A may be obtained from H.M. Stationery Office, or through any bookseller.

Copies of a new (third) edition of the "Notes for the Guidance of Applicants" may be obtained from the Regional Licensing Officer, Ministry of Works and Buildings at one of the following centres:—

London Edinburgh Cardiff

Tunbridge Wells Reading Cambridge

Birmingham Nottingham Bristol

Leeds Manchester Newcastle

IN THEIR OWN INTERESTS EMPLOYERS NOT REGISTERED as Building or Civil Engineering Contractors who have in their direct employment staff engaged on the maintenance of their own premises, and who have not made the return on form B.C.E.4 (available at Employment Exchanges) SHOULD DO SO IMMEDIATELY.

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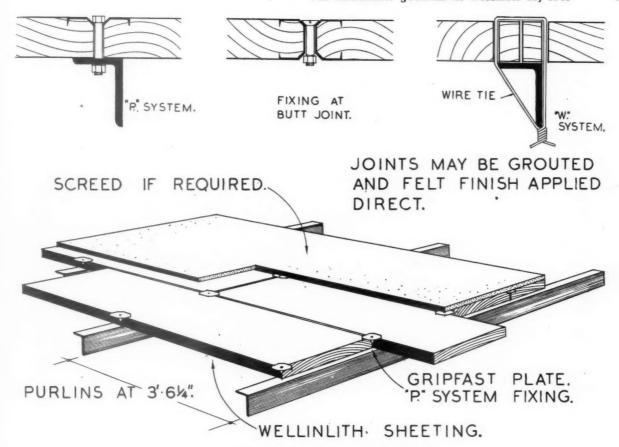
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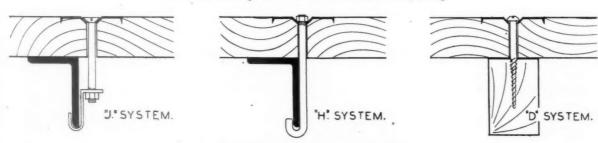
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### JOURNAL

THE ARCHITECTS' JOURNAL WITH WHICH IS INCORPORATED THE BUILDERS' JOURNAL AND THE ARCHITECTURAL ENGINEER IS PUBLISHED EVERY THURSDAY BY THE ARCHITECTURAL PRESS (PUBLISHERS OF THE ARCHITECTS' JOURNAL, THE ARCHITECTURAL REVIEW, SPECIFICATION, AND WHO'S WHO IN ARCHITECTURE) FROM 45 THE AVENUE, CHEAM, SURREY

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The Editor will be glad to receive MS. articles and also illustrations of current architecture in this country and abroad with a view to publication. Though every care will be taken, the Editor cannot hold himself responsible for material sent him.

THURSDAY, DECEMBER 25, 1941. Number 2448: Volume 94

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The fact that goods made of raw materials in short supply owing to war conditions are advertised in this JOURNAL should not be taken as an indication that they are necessarily available for export.

Owing to the paper shortage the JOURNAL, in common with all other papers, is now only supplied to newsagents on a "firm order" basis. This means that newsagents are now unable to supply the JOURNAL except to a client's definite order.



### In the days of Justinian

The empire of Justinian is hardly more than a myth. The fame of his encouragement of Architecture is unlikely to perish. The cathedral of the Holy Wisdom, the palaces whose polychromed marbles were reflected in the blue waves of the Golden Horn, the numerous churches of the Levant and Near East, the precious mosaics—the age was

both daring and mature, the opportunity was splendidly accepted . . . . We in this country will shortly be favoured with one of the great building opportunities of history. We join with architects in looking confidently ahead—and in the days to come, trust that Celotex will make an essential contribution.

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When, happily, architects, engineers and town planners are working enthusiastically on post-war reconstruction STRUCTURAL STEELWORK by DAWNAYS will be a reassuring sign of planned progress.

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In common with every other periodical and newspaper in the country, this Journal is rationed to a small proportion of its peace-time requirements of paper. This means that it is no longer a free agent printing as many pages as it thinks fit and selling to as many readers as wish to buy it. Instead a balance has to be struck between circulation and number of pages. A batch of new readers may mean that a page has to be struck off, and conversely a page added may mean that a number of readers have to go short of their copy. Thus in everyone's interest, including the reader's, it is



important that the utmost economy of paper should be practised, and unless a reader is a subscriber he cannot be sure of getting a copy of the Journal. We are sorry for this but it is a necessity imposed by the war on all newspapers.

from AN ARCHITECT'S Commonplace Book

"If every man confined his observations to subjects upon which he is qualified to speak there would be throughout the world an almost deathly silence."

Chinese Proverb.

### CUT DOWN YOUR BUILDING

Defence Regulation 56 A, summarised on page 411, appears at first sight to differ little from regulations already in force. But in fact it represents a big tightening-up of the control over civil building.

The two main differences are: (1.) The old regulations applied only to construction, reconstruction and alteration, but the new regulations cover every type of work including maintenance decoration and the repair of war damage; (2) the old regulations related to a single building operation. The new apply to a single property as defined for Schedule A income tax assessment. The amount that can now be spent on any one property within 12 months is limited to £100 unless special licence is first obtained from the Regional Officer of the Ministry of Works and Buildings. The aim of existing regulations was primarily to establish an order of priority. The aim of the new regulations is to restrict civil building to the absolute minimum necessary to keep the country going in order to free building labour now employed locally for work of national importance. If any operation is executed or work is carried out in contravention of these regulations, the person who pays for the work, the contractor who executes it, and the architect (or any other person employed in an advisory or supervisory capacity) will each be considered guilty of an offence against the regulation and be liable to prosecution.

### NEWS

### SOCIAL SURVEYORS

Mr. Clough Williams Ellis opening the Exhibition, Living in Cities, which is now on view at the housing centre, compared architects to stage carpenters, whose job is to carry out the instructions of others, and disclaimed on their behalf responsibility for setting the programme that should be followed when cities are rebuilt.

The business of programme setting, he suggested, should be carried out by members of a new profession, and he boldly asked for the expansion of existing beaurocracy to include what he called social surveyors as opposed to district surveyors, whose training should be based on the new sciences of psychology, sociology and anthropology as opposed to engineering and the

study of drains.

Sections of our towns are adequate if they are judged purely from a physical and technical point of view. But though a medical officer of health might be reasonably content with the physical condition of many citizens a social surveyor confronted with the best of them, would exclaim in horror: "These people are not even happy; their reaction to æsthetic stimuli is alarmingly poor: they are socially pigeon-chested.

Social surveyors, he contended, would not encroach upon the position of architects, but would support them, and brief them, realizing their value, just as a solicitor is anxious to secure the services of a clever barrister on behalf of his client. They would prefer artists to aldermen, poets to politicians, and accord to architects the homage at present reserved for arch-

angels.

His audience agreed in thinking that technical considerations rather than theoretical optimums should determine the size of towns, and that controlled satellites had in practice proved unsuccessful. It was generally agreed, however, that neighbourhoods and subcentres should be planned as optimum social units, making use of existing local feeling which has been greatly revived by the war.

Mr. Austen Hall, in a pithy and picturesque argument, heartily endorsed the need for a social surveyor. At present, he said, everything is determined by the road engineer who is conscious only of his duty to design curves suitable for motor traffic. The radius of the curve and the width of roadway dictate the position of the gutter: add on to that the width of the curb and you get the building line. Build on that until you are stopped by a height restriction and you have a town. Our present environment is simply a gutter plan projected in the air.



The English landscape has been shaped by Englishmen—that is the story of this issue—and its unusual variety and charm is due, perhaps, to the fact that the Englishman himself is more of a mongrel than most. The two portraits reproduced above might be said to represent the original strains of a cultural marriage, represented in this case by a classical Roman and a Celtic Briton. The larger of the two is probably a portrait of the Emperor Claudius who conquered Britain in 41—54 A.D. It is monumental in character, but at the same time the artist has emphasized individual features—the ugly ears, the contemptuous mouth. The other is its British counterpart of the

contemptuous mouth. The other is its British counterpart of the same period. The general plastic modelling and the realistic detail is Roman. The rest is pure Celt. The bulging eyes have an expression no Roman sculpture ever had and the reddish colouring, of which traces are still visible, must have emphasized the uncanny appearance. These two heads, so similar in subject, so dissimilar in execution, illustrate forcibly a temperamental difference which underlies English and continental art, a difference which shows itself by a preference for intensity of expression rather than perfection of form, for line rather than volume, for movement



rather than repose. These opposite sets of values have waged a tugof-war over our landscape ever since, neither gaining complete mastery. Their manifestations have been called respectively Gothic, romantic, picturesque and naturalistic on the one hand; classical, academic, sublime, beautiful and boring on the other. Both have contributed much to the English scene. Photographs reproduced from an exhibition called English Art and the Mediterranean now on view at the Warburg Institute, Imperial Institute Buildings, one of the best exhibitions ever held in this country, which all who can should see.

### ROMAN INTO ENGLISH

### HOUSING CENTRE

Following meetings are to be held:—
Tuesday, December 30. "Planning for
Post-War Gloucestershire." By Gordon
Payne, F.S.I., M.T.P.I., County Planning
Officer, Gloucestershire. 1 p.m.
Tuesday, January 6. "Location of
Industry." By Professor Sargant Florence.

### MINISTRY OF HEALTH

Loans sanctioned during the quarter ended September 30, 1941, to Local Authorities in England and Wales.

Housing, £138,567; Municipal Services (including Clinics, Sanatoria and mental

hospitals), £274,527; Swimming Pools, Playing Fields, Recreation Grounds, Open Spaces, etc., £26,766; Water Supply, £155,096; Disposal of Waste Products (Sewerage and Sewage Disposal and Refuse Destruction), £69,342; Education Services (including Libraries and Museums), £342,399; Air Raid Precautions, £312,573; Roads and Bridges (including Private Street Works), £123,684; Other Services, £86,268. Total, £1,529,222.

### FUTURE OF BUILDING

Building societies, after two years of war, are better equipped to face the future than they were at its outbreak, declared Mr.

David W. Smith, Chairman of the Building Societies' Association and General Manager of the Halifax Building Society, speaking recently at the annual meeting of the Yorkshire County Association of Building Societies.

He intimated that he would shortly invite the Council of the Building Societies' Association (which represents 369 societies with £750,000,000 assets) to issue a considered statement on the movement's attitude towards the housing problem that would confront the nation at the conclusion of hostilities.

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need for houses and for a colossal building programme," declared Mr. Smith. "Not only will arrears accumulated during the years of building suspension have to be made good, but thousands of houses, as well as commercial, industrial and ecclesiastical buildings will be needed to replace those destroyed by enemy action. Public works held in abeyance will have to be started to rehabilitate industry and to create employment. Given adequate Government support, the building industry can exercise a vast influence in averting or controlling the deplorable booms and slumps which brought suffering and loss to so many in the last post-war era.'

### EXTENDED CONTROL OF CIVIL BUILDING

At the Ministry of Works and Buildings last week it was announced that, as from January 1, 1942, a revised Defence Regulation 56A will come into force which will extend the existing control over work of construction, reconstruction and alteration, to include the following :-

REPAIR (including the REPAIR OF

WAR DAMAGE),

MAINTENANCE OF PREMISES,

DECORATION.

DEMOLITION,

PROTECTION OF PREMISES AGAINST HOS-

TILE ATTACK.

The position, after January 1, 1942, will be that no operation, consisting of work of any or all of the above categories (excluding maintenance), will be permitted in the United Kingdom if the total cost of such operations exceeds £100 unless a licence to carry out such work has first been obtained from a Regional Licensing Officer of the Ministry of Works and Buildings.

In addition, no work as above-mentioned (including maintenance) may be carried out on any single property in the United Kingdom if the cost of such work, together with the cost of any other such work carried out on that single property during the 12 months immediately preceding, exceeds the sum of £100, unless a licence has first been obtained in respect of such work. The 12 months' period will be reckoned as the 12 months immediately preceding the date of application.

The position as regards Local and Highway Authorities and Public Utility Under-takings remains unchanged. Such authorities and bodies require as at present to obtain an authorisation from the appropriate Government Department for work of construction, reconstruction and alteration only, the cost of which exceeds £100.

Note.—In computing the cost of an operation or work for which an authorisation or licence is required the value of materials (whether new or second-hand) in the possession of the building owner or his agent and the cost of labour, over-head charges, profits, and fees for professional services (e.g., Architects' fees, etc.) must always be included

be included.

The revised Regulation introduces a new system of "rationing" applicable to a single property. This rationing system is largely necessitated by the inclusion, of "maintenance" work within the control. Its inclusion means, in effect, that a licence from the Ministry of Works and Buildings will almost certainly be required if only one man is permanently employed on the maintenance of a single property because wages are included in the £100 limit.

The Ministry will grant-an annual licence in respect of maintenance where more than £100 has to be spent on essential maintenance work on a single property during any one year. This licence will be granted in advance for the year and will allow the building owner to carry out (subject to such conditions as may be specified) the numerous small items of work necessary for the maintenance of the property.

THE JOURNAL WISHES ALL ITS READERS

### $\mathcal{MERRY}$ $\mathcal{CHRISIMAS}$



### UNCOMIC STRIP

T is twelve years since this JOURNAL was last published on Christmas Day-Wednesday, December 25th, 1929 to be precise. "Life is good, life is fat and plenteous, life will bring things to us anon," wrote the leader writer of that day, and he was right in thinking life would bring us It has. If it has brought us rather more than we expected there is enough in his contention—"on this day we may forget all things that trouble us "-to furnish an excuse for the diversion provided by the present issue. For this issue, though it is concerned with a battle-even though it is concerned with what is called on the next page a Battle of Britain —is only concerned with the present battle in so far as that little affair may be regarded as a phase in a greater contest which is going on around us all the time.

Let the confession be made. The accident of publication on Christmas Day, 1941 has prompted the JOURNAL\* to embark on an enterprise alien to its chastely technical habit: nothing less, to be frank, than an experiment in popular journalism, or more accurately an attempt to apply popular journalism to an unpopular subject. A piece of land-Our Village—has been treated as though it were the Principal Boy in a novel kind of Christmas pantomime in which One Thing After Another happens in a rapid succession of scenes. Or if that seems too fanciful a statement, let us put it in terms of Fleet Street rather than Drury Lane and say Our Village has been made the hero of a new kind of uncomic comic-strip.

The comic-strip, of course, is the form in which in the earlier days Pip, Squeak and Wilfred, and in later, Colonel Up and Mr. Down were (and are) presented daily to a

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<sup>\*</sup> With the collaboration of the Housing Centre.

grateful public. The only novelty of the present adaptation of that art lies in the application of the comic-strip technique to a subject which is not comic and to a theme not quite so

warmly human as Pop or Popeye.

Whether the experiment succeeds or not, most architects —and certainly most educationists—would agree that there is a real need that someone should dramatize contemporary problems in a way that will mean something to the Dot and Carrie public. The distinction made by the man in the street between good entertainment and highbrow stuff is largely unreal; it springs from what amounts to an unconscious classification by him of subjects into those which brilliant showmanship has brought to life and those which have never left the clutches of the dons. There is a point no doubt where this ceases to be the case—the most brilliant exposition could hardly be expected to make the calculus clear to an unmathematical mind—but there is a wide range of subjects mere human curiosity would lead most of us to investigate if we knew a sure way of side-stepping the academic preliminaries; and of these subjects, one, we do most seriously contend, is the history of the land which makes clear so much of what is meant by planning.

So here and now we put this belief to the test. Not however on the public it is designed for. At first sight it may seem odd, in view of what has just been said, that this popular technique designed for the man-in-the-street should be tried out on a public of specialists cradled in the problems of planning and the facts of land. The explanation is a very simple one. It is also, the JOURNAL believes, a very important one. The idea of the specialist as a kind of monster figuring out unintelligible answers to inexplicable problems, is going out of date. Instead in many minds the feeling grows that it is not merely a pious ideal, it is a pre-requisite of democracy, that the individuals democracy is made up of should understand the problems democracy is up against, even when they are difficult ones. Unfortunately, these problems need expertly stating, and the opinion, long held, that there were contact men—journalists were thought to be amongst them—who by popular exposition could bridge the gap between expert and public, has turned out to be, except in a few isolated cases, a false one. The non-specialist middle-man only falsifies a difficult issue when he sets out to simplify it. The only man who can state a case simply is the expert himself, which means that it is the architect, the planner in our particular field, who must prepare himself to interpret the problems of planning in terms the man in the street can understand; indeed this is one of the greatest jobs before the architect. What follows then is an attempt, not a very bright one perhaps, but an attempt, to provide the specialist with an example of the kind of job of popularization he has got to do. Those who sympathize with the intention are asked to treat the result with the tolerance their native good humour suggests, for as we started out by saying, it is after all Christmas Day, and Christmas is Christmas, even in 1941.



The Architects' Journal
45, The Avenue, Cheam, Surrey
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### NOTES & TOPICS

CHRIST CHURCH MALL

On November 6 I ventured to criticize the route proposed for Christ Church Mall. Mr. Gilbert T. Gardner and Carfax, the author of the scheme, have both written to rebuke my temerity. Carfax has the advantage of me; he knows the locality far better than I do, and is almost certainly right when he says that a by-pass south of the river is impossible. I do not doubt his word, but would like to know more precisely why?

Let me say exactly where I'd like to put the Mall, and then if Carfax will take up the critic's part, we may get somewhere. Starting from the Iffley Road, it would run down Jackdaw Lane instead of across playing fields and slap through a pavilion, leaving the athletes in their shaggy white trousers to pick their way as best they could through streams of motor traffic. Then instead of slewing round to traverse Christ Church Meadow it would cross the River Thames at a point just below the junction between the New Cut and the main stream, a point not shown on Carfax's map. He says a skew bridge 350 ft. wide would be needed here. Why? As far as I can see the only difference it would make would be to remove the need for a separate bridge across the New Cut.

Once across the river two alterna-

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tives lie open. The Mall could, if necessary, follow the south bank and cross Abingdon Road at the point chosen by Carfax (Scheme II). Alternatively it could continue straight ahead and cross it about a quarter of a mile further south (just north of the recreation ground). Apparently it could do this without disturbing anyone more important than the cows on Eastwick Farm.

From here onwards progress is easy. The new by-pass could run parallel to the railway line and close beside it for the rest of its length, on land that is useless for any other purpose, partly because it is near the railway, partly because it is liable to flood. Nobody would ever be tempted to build along the new ring road.

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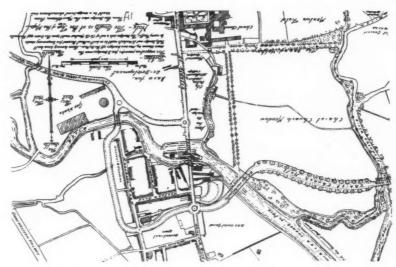
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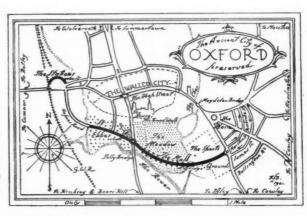
Measured on the map with a piece of string, this route is about a quarter of a mile longer than the route indicated on Carfax's scheme (second version). It has, however, the advantage of being a smooth curve instead of a series of awkward bends; it leaves college sports grounds and river banks to athletes and idlers who are in a position to enjoy them; and it skirts round the town instead of plunging through it. There may, of course, be objections that are not so obvious.

The question really at issue appears to be one of principle. Is a motor road a good way of opening up amenities? Carfax clearly thinks it is. "The Mall," he says, "will give the river walks to Oxford and not merely to the fortunate few lacking other employment." I should have said that modern town planning theory flatly contradicted this view.

There is nothing selfishly exclusive about the river walks at present; anyone who cares to step aside from St. Aldates is free to enjoy them. The only qualification for admittance is that he must go for pleasure and go on foot. No doubt the meadows are sometimes empty—it is part of their charm. Would more people really enjoy them if they were full of cars and lorries? The only people who would then be in a position to see both the river and the silhouette



Below, the original and above, the new suggestion for an Oxford by-pass (to the High) running through Christ Church Meadows and called Christ Church Mall. The scheme is referred to by ASTRAGAL on page 412. The top map is turned upside down in order to make the North Point correspond with that on the map below.



of Oxford would flash by at 30 m.p.h. with their attention riveted on the number plate in front.

The redemption of the High is held out as a possible bait. But everyone knows by now that the usual result of a by-pass is an increase of traffic on the new road without any corresponding decrease on the old.

Later on in his letter Carfax says "The Mall has the further advantage of opening up a derelict area, St. Ebbes, for the commercial expansion of Oxford." Quite apart from the question whether any sane person wants the commercial expansion of Oxford, is it wise to run a by-pass through the middle of an area thought to be suitable for re-development as a town centre?

SOLDIERS DO CARE

The industrious director of the Institute of Adult Education, Mr. W. E. Williams, is now with the

Army in a newly constituted Army Bureau of Current Affairs. Amongst the current affairs which Mr. Williams finds the Army has an interest in is reconstruction. In fact he tells me that both officers and men have an insatiable appetite for material which serves discussions on the kind of physical world we can rebuild when the war is over.

Mr. Williams had ready at hand the exhibition, "Living in Cities" which Ralph Tubbs prepared for him a year ago, and which has been circulating ever since in town halls, rest centres and shelters. It is being duplicated in miniature for army Now he has commissioned huts. Noel Carrington and Elizabeth Denby to prepare a complementary exhibition on Homes. This will cover utilisation of space, furnishing equipment, decoration and use of garden. It is being undertaken in collaboration with the D.I.A., which is showing signs of life again.

ASTRAGAL



### LETTERS

GILBERT T. GARDNER, F.R.I.B.A. "CARFAX"

R. R. MEADOWS

E. S. W. ATHERTON

### Christ Church Mall\*

Sir,—I have read Astragal's notes in the JOURNAL of November 6 and I have noted his suggestion in regard to the by-pass being placed on the south side of the main river.

I suggest, however, that he has overlooked the main principle underlying the proposal as sketched by Mr. Dale, viz., the provision of an *inner* ring road that would obviate the present necessity for all internal east and west bound traffic to traverse High Street and Carfax.

I have developed the scheme a little more in detail with the variation that Christ Church Meadow would be interfered with as little as possible and instead of the join-up taking place north (or city) side of Folly Bridge, it would be on the south side of this bridge; the reasons are indicated by a note on the plan enclosed herewith.†

GILBERT T. GARDNER.

SIR, — "Astragal," reviewing my diversion on this subject, states the case with petrifying insight. That is the whole trouble—the swish of the cows' tails in the meadow! However, I did state that when the Mall was built there would still be room for the cows to chew their cud. I forgot to mention their tails, but there would be room for them, too.

As for separating Oxford from the Isis, this is just the reverse of what the Mall would do. At present it is a sabbath afternoon's journey to the river walks. A friend of mine remarked to me that when he was there he said to himself "How perfectly lovely!" but, he added, "I had to say it to myself." The Mall will give the river walks to

Oxford and not only to the fortunate few lacking other employment. The college barges are doomed in any case. The cost of their maintenance is too high and they serve little purpose other than that of grand stands and reduce the width of the river. They are to be replaced by boathouses further downstream, so that the Mall will have a clear view of the river on one side and a silhouette of Oxford on the other.

Astragal, I am glad, admits that a road south of the city is required, and I did state that south of the river was impossible. Apart from the fact that it entails three bridges (one a skew bridge 350 ft. span across the Thames, I ask you!), it would not do the job that is essential, that of providing an alternative route for the local traffic from east to west in order to relieve the traffic in the High; the High is now only a shambles.

The Mall has the further advantage of opening up a derelict area, St. Ebbe's, for the commercial expansion of Oxford, the lack of which is steadily destroying the character of the ancient

But, there, Astragal has stated the case for the Defence, the swish would not be heard; the case for the Plaintiff is that granting the greatness of the loss, the gain would be even greater.

. .

Oxford.

### Impington at Work

SIR,—In your issue of November 13 Capt. G. G. Haythornthwaite criticises Impington College as exemplifying all the shortcomings of contemporary Architecture.

The first criticism is of "finality of composition." In so far as the masses are static, every building composition is final. It is true that transitory features of environment may have an effect on composition, but this will occur less in the case of contemporary than in "traditional" design, for the composition of the former is far less rigid and self-contained than that of the latter. Far from "objecting to people," modern architecture is a rational attempt to provide a scientific and æsthetic background to living; giving primary consideration not so much to the building, as to the life which goes on, in and around it.

which goes on, in and around it.

The second criticism is of "utter dependence on specially selected landscape. . . " All truly representative architecture has recognised landscape and climate as influential factors in design. Instances of this are the considerations of silhouette and the use of sharp-chiselled sculpture in relation to the strong sunlight of Greece and Egypt, and the deeper profiling and use of colour in building materials in the diffused and modified light of Northern Europe. Modern architecture is essentially conscious of its collation with its natural environment.

The last criticism is of "meanness in detail and materials." The logical refusal to confuse features of decorative and plastic art with the æsthetic expression of function, will produce what would be regarded as meanness in detail, only if judged according to an old æsthetic standard. Moreover modern architecture is concerned with the full exploitation of the properties of materials, and the utilisation of the results of scientific research and experiment.

Relics of the past may be admirable expressions of their own age, but can in no way be compared with Twentieth Century Architecture except in basic principles and first causes, for each age expresses itself according to its knowledge and particular set of values.

The achievement of a more ordered society will not be possible so long as there is a willingness to compromise with the past, and a refusal to acknowledge the potentialities of the present and the future.

R. R. MEADOWS.

Hull

### Enamel Basins

SIR,—I feel that I cannot let Miss Ledeboer's explanation and attempted justification for the use of enamel wash-basins go by.

Taking the question of cost first, I recognised in my letter the obvious fact that a range of fixed basins with all the necessary drainage and water connections is more expensive than a range of enamel basins. From the financial point of view, however, this first cost must be balanced against in the case of enamel basins the ultimate cost, that is, the cost of enamel basins plus the cost of the extra labour involved over the entire life of the building for the additional supervision required. I myself cannot believe that the extra first cost involved in providing fixed basins would be sufficient to determine whether or not a scheme was to be carried out.

As to the chances of infection, obviously this must be greater for the very reason that several children will use the same water.

The line of argument that movable basins give the child similar conditions to that which he or she is used to at home seems to me to be illogical, for if this line of justification were followed to its conclusion we will never get progress, for one might argue that one was justified in providing in a new house a kitchen range or an outside w.c. or c.c. just because the possible occupants of the new house had been used to these.

Whilst the architect describes the scheme as a temporary war-time scheme I cannot but feel that the building will have a life of at least 30 years, I therefore feel that my criticism was justified.

E. S. W. Atherton Harrow-on-the-Hill

<sup>\*</sup> See Astragal's notes on page 412. † The plan is reproduced on page 413—ED., A.J.

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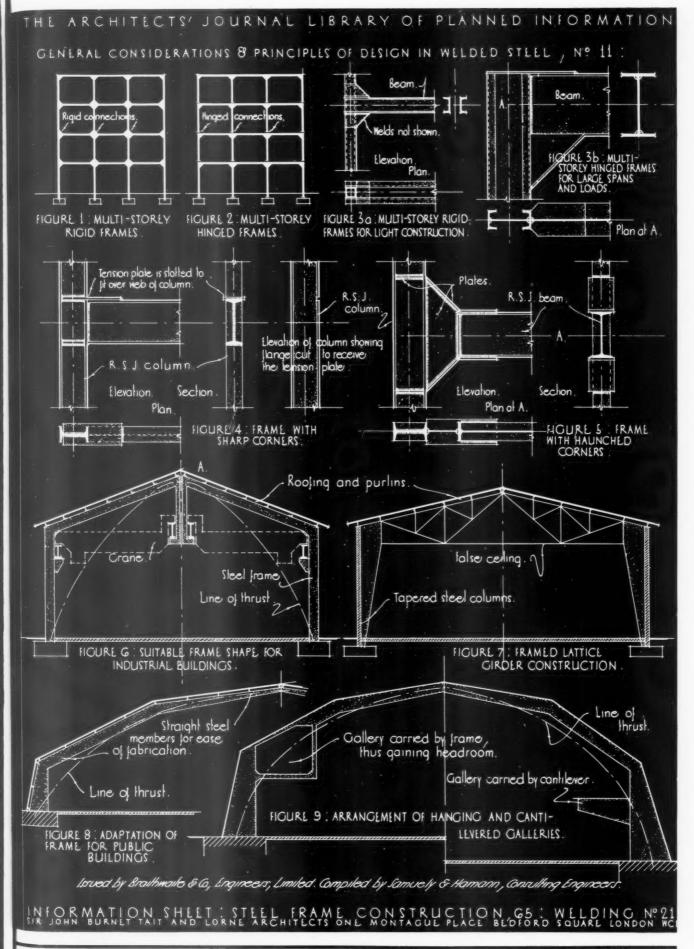
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### SHEET INFORMATION

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### STRUCTURAL STEELWORK

Subject: Welding 21: General Considera-tions and Principles of Design in Welded Steel: No. 11, Frames (a).

This series of Sheets on welded steel construction is a continuation of a preceding group dealing with riveted and bolted con-struction, and is intended to serve a similar purpose—namely, to indicate the way in which economical design as affected by general planning considerations may be obtained.

Both the principles of design and the general and detailed application of welded steelwork are analysed in relation to the normal structural requirements of buildings. economies in cover and dead weight, resulting from lighter and smaller steel members and connections, are taken into consideration in the preliminary arrangement of the building components in order to obtain a maximum economy in the design of the steel framing.

This Sheet is the eleventh of the section illustrating the general considerations and principles of design in welded steel, and is the first of four Sheets on the systems of

welded frame construction.

### Multi-storey Frames:

Frames may be used for multi-storey buildings as well as for one-storey buildings. In the latter case distinction must be made between multi-storey rigid frames (Figure 1), and a number of one-storey frames placed one on top of another (Figure 2). Such a series of frames is considered to be hinged at every support and the general rigidity of a building formed in this way is somewhat less than with multi-storey rigid frames. Preference should be given to multi-storey rigid frames where lightness of construction is employed assisted by every additional stiffness which can be provided, rather than to an arrangement involving large spans and loads, where heavy sections and strong corners would be required to give the necessary rigidity in spite of the hinges. This is explained by means of comparison in Figure 3a and b.

### Erection:

Erection is usually simpler when a series of one-storey frames is used, than with multistorey frames, as rigid joints need not be provided at the side.

### Application: (a) Multi-storey:

In commercial buildings the shape of the frame is dictated by the space available, and only vertical and horizontal members will be employed. Frames can have either sharp corners (see Figure 4) or haunches (Figure 5). Haunches are cheaper and give greater rigidity, while sharp corners would be used where architectural requirements demand

### (b) Single Storey:

For one-storey buildings (or for the roof of a multi-storey building) it is possible to vary the shape of the frame.

A compromise is to be found between:

(a) A shape which approximates to the line of thrust (see Sheet No. 14, Figure 8a), which provides the most economical steel construction.

(b) A suitable fall of roof to provide the

cheapest covering; and (c) Considerations of space, e.g. headroom, heating, etc.

Figure 6 gives a suitable section for industrial buildings, allowing space for a crane. For planning purposes, the height at the centre is usually unimportant as such buildings are not generally heated, but a better form results if the centre is raised.

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For ease of erection the equivalent of a hinge can be arranged in the centre (point A). Figure 7 shows a case where, due to the arrangement of a false ceiling, considerable constructional depth is available over the whole width-possibly to provide space for ducts or storage. In this case the horizontal part of the frame may consist of a lattice girder while, where space is limited, the columns would be of plate girder section.

Figure 8 shows a form of construction which can be used for public buildings, e.g. market halls, exhibition halls, public baths, railway stations, etc. In all these cases the shape can conform as closely as possible to the most economical one (i.e. to the line of thrust) while remaining polygonal to allow straight members to be retained for ease of fabrication.

A hinge may or may not be arranged in the centre, depending on local conditions. Where galleries are required these can be arranged by means of hangers or by rigid cantilevers, as shown in Figure 9.

### **Previous Sheets:**

Previous Sheets of this series on structural steelwork are Nos. 729, 733, 736, 737, 741, 745, 751, 755, 759, 763, 765, 769, 770, 772, 773, 774, 775, 776, 777, 780, 783, 785, 789, 790, 793, 796, 798, 799, 800, **6**01, 802, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 816, 819, 821, 822, 823, 824, 826, 827, 828, 830, 832, 836, 837, 838, 839, 840, 842, 843, 845, 847, 848 and 849.

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### FOREWORD

By Kenneth Lindsay, M.P.

[Late Parliamentary Secretary to the Board of Education]

E are all in this rebuilding business together, no one can escape, but children especially like building if they are given the chance. I know that there are obstinate and tiresome problems of money, materials and priorities, but we must make up our minds what sort of villages and cities and countryside we really desire. It is not only a question of buildings and architecture: we must also envisage the education and social life we think best for ourselves and our children.

I will be bold and tell you my own dreams and plans. First of all comes the home, because family life matters most and the best way to make it happy is by relieving the hardest worker in the land—the mother—from as much drudgery as possible. There are a score of different ways by which this can be achieved, but one thing is essential, women must have much more to do with the planning of homes in the future.

in the future.

Second in importance I put the community centre, in the heart of which will be a series of schools for all ages. This will come under the new Ministry of Youth and Arts. Here will be found a nursery wing and clinic, offices for juvenile employment and the educational court (we shall not recognize juvenile crime as such), the gymnasium, swimming bath and playing fields. These will be in constant use and will need careful planning by teams of architects with a practical social vision.

Thirdly and covering a wider region, there will be civic buildings which express the main needs of the area. Apart from markets and shops where wares are exhibited and commercial buildings with light airy offices to make the clerk and typist's life more interesting, and apart from factories which would need a separate article to describe, we will have civic buildings like town halls, libraries and theatres. Over a still wider area there will be rest-homes and camps, some in the chain of national parks stretching from Cornwall to the Cairngorms, Universities with their hostels, and colleges of adult education, museums, galleries and art schools.

• But all these buildings and the arteries of transport which connect them may easily demand changes in land-ownership, so that the maximum use can be made of this little island, in whose defence so many will have given their lives. "Land is the platform of all human activity," as my friend Mr. Pepler says, and even airmen have to land.

This is no idle dream, but unless those now at school and in youth organizations grow up with a longing to create beautiful cities, no dream can come true. Perhaps some of them will be architects or builders or will serve in local government or become teachers; but all of them want a home of their own, a fine education, happy working conditions and rest and recreation among the beauties of nature.

It is for this reason that we must all take a share in rebuilding, even if it means national service for five years. Why not? and what an example to the stunted, mechanized German government to see a real democracy re-creating its own life. That is my dream. You must work out the plans and blue-prints.



eyes and mouth shut



2 eyes shut but mouth open



3 eyes and mouth open

but still

### ASLEEP



4 look again. The eyes are open but see nothing because the child is a doll. Millions of people are like this doll—they look but they don't see. That's why the street opposite is possible. But can human beings really enjoy life

B

is

ar

C

### **8** What is the missing word?



5 in this kind of neighbourhood?



6 Or would they be better off here? who is going to decide? We are asking you to decide.

### 7 WHY YOU?

Because your country
is a
and only by the active
co-operation of
can it be
planned for the benefit
of the whole community

\*HE missing word is DEMO-CRACY, an ugly one, possibly the ugliest in this Journal. It is a long word, familiar to the child and to the man, yet to most men its meaning is no clearer than to most children. Government by the Demos, or people-you and me that is to say-means in practice that we elect representatives, called in this country members of Parliament, who go up to the House of Commons to act for us and to administer the affairs of the nation as we would wish them to be administered; to let it be known for instance that we mean to fight (rather than let the world become Schickel-gruber's football). This procedure is called democratic. Every adult in his right mind (and a good many out of it) is supposed to have a say in the councils of the nation.

A nice idea? Not a doubt about that, but it is an idea which can be abused when conditions are observed. Of these conditions, one, the first, is that we must be sufficiently all there to know what we want and to judge whether the clever gentlemen who represent us in Parliament are choosing the best means of getting it for us. Since we control Parliament and Parliament controls our destiny, it follows that if that destiny goes bad on us, as it has shown signs of doing, we have no one but ourselves to blame. It isn't enough to leave everything to Parliament, and then grumble when something happens one doesn't like.

Consider. Generations Englishmen have fought for freedom, freedom of action, freedom of conscience. liberties we accept as laws of nature were struggled for through centuries by people who looked on them as an unlikely ideal. Under freedom, they thought, the freedom provided by a democratic way of life, every individual would be at liberty to make his own personal contribution to the common weal and within the framework of the common law, to enrich the world according to his own ideas and capacity. Ideas were seen as the real forces behind human conduct, acting like yeast, creating out of ferment marvels.

And they were right. Ideas, if not the only thing in life, are amongst the really fundamental things. They are like yeast. They do perform marvels. The whole structure of democracy is designed on the understanding that the unhindered expression of ideas is vital to the growth of society and to the health of a nation. The democratic system is the political structure of men who believe in the potency of ideas, and



The progress from oppression to anarchy (of which we have seen such an awful example\*) is not more natural, than from the ease of freedom and security, to indolence and apathy. Let England beware; let her guard no less against the one, than against the other extreme; they generate each other in succession, for apathy invites oppression, and oppression is the parent of anarchy.

LETTER TO H. REPTON, ESQ., FROM SIR UVEDAILE PRICE. 1795

\* The French Revolution.

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who persist in thinking that in the realm of ideas no man can claim a prerogative.

And so when I demand my rights I am automatically claiming for my neighbour the right to have ideas different to mine; and we refrain from punching each other over the garden wall because we know, or think we do, that the battle of ideas isn't to be won in that way since it depends on powers inherent not in a fist, but in ideas themselves. What the men who fought for freedom didn't see was that liberty, which seemed to them the very button upon the cap of progress, might create a generation free from social ties and annoyances to a degree that would cause it to overlook both its privileges and its responsibilities. Yet this is what happened. Few people to-day have any clear idea of the privileges they enjoy under democracy or any conception of the responsibilities they owe, except those that are purely financial, like taxes.

There are, of course, those who think of democracy as nothing but a hollow mockery (the Other Camp thinks it is) but whatever critics of democracy say no one has ever questioned its preeminence as a jumping off ground for ideas. The quintessence of a democratic state of things is that the battle of ideas shall be carried on as a free-fight-for-all on the assumption that every individual is capable of having a good idea, and that the best one will win

in the end. The law, the police, and the army are there to see no one gets it into his head he can put his ideas across by bumping off the other side. Ideas have their own way of realizing themselves. So thinks

the democrat.

How does one fight with ideas? Just as one fights with weapons, single-handed sometimes; preferably in organized contingents; best of all with mechanical equipment. Of the mechanized army built up for the War of Ideas, books might be described as the tank division-they are mobile and turn up in ones and twos in unlikely places, doing enormous execution (this issue is a whippet, or pocket, tank)but there are many other kinds of fighting units with their own machinery and headquarters staffs. The particular H.Q. which sponsors what follows is known as the Housing Centre, and it is made up of people (knowing something about how good housing could be and how bad it is) who feel that if they could pass on their ideas to " public enough people, "public opinion" would insist upon seeing the standard of housing improved. From this improvement the Housing Centre would not profit financially because the Housing Centre doesn't make money. It is an example of the kind of institution which can be set up in a democracy by people who want to spread what they think to be the truth, and though democratic procedure allows them no chance

to bully or blackmail others into sharing their opinion, it does give them the right to air their opinion and so spread it by legitimate idea-machinery of speeches, exhibitions, radio,

Now let us go back again for a moment to this question of responsibility. There is one thing everybody has got to get wise to, which is that the socalled democratic procedure we have tried to describe, so dear to the hearts of Englishmen and Americans, involves responsibilities as well as privileges. Half our present troubles arise out of the fact that we thought we could have privileges without responsibilities, which was silly. The individual who isn't prepared to take the trouble to understand the problems society is up against, and to exert himself to solve them is a slave, not a democrat, and to slavery he will return. This is obvious. If you and I aren't prepared to go through the necessary discipline to understand what's going on we can't expect to be consulted for long. joke-Thomas Carlyle's-about England consisting of 27 millions mostly fools, i.e., people without valuable ideas (which Ibsen put in another way in The Doll's House) is actually the most searching piece of criticism the democratic principle has ever had to face, because it is in fact true that the democratic principle simply doesn't work for people who are without the impulse to think and learn and choose. Though most of us bolster ourselves up with the thought that we have a certain amount of common-or horsesense and that we are nice and kind to our friends and relations, we know all the time we are a whole lot more ignorant than we ought to be about a number of absolutely vital things. This is another way of saying we are irresponsible. Well, democracy can't work for the irresponsible. There are a few ways in which no man can afford to overlook his responsibilities any more than a railwayman working on the line can afford to overlook the 8.53, because if he happens to stand on the wrong rail he may be unlucky. Democracy is like that. If you get careless as to what it's all about and why it matters, it comes back and smacks you down. In days less packed than these with drama it was easier to miss this truth, but to-day we see two things more clearly: that being hard up, or living in a slum, or having to do uncongenial work, or just being bored-states like these are the punishment that is meted out to one for being irresponsible. These at least are the personal punishments. The collective result of all being irresponsible together is bound to be nothing less than the conquest of our fools' paradise by another, a Nazi paradise perhaps, which accepts the fact that England consists of so many millions mostly foolsor sheep-or both-and sets up on top a tough guy, who isn't either, to impose his will on the crowd. As Mr. Vernon Bartlett said recently, the value of democracy to you is that as a democrat you have power you couldn't possibly have under a dictatorship—unless you were the dictator. You have power, it is true, but only on condition you use it. And you can only use that power constructively if you know what your particular responsibilities are.

Now one-perhaps the firstof your responsibilities is to This the land you live on. issue is trying to review your responsibilities towards that. It called Your Inheritance because you do inherit the land -it is the one thing that remains constant throughout a nation's history; it is the stuff from which the visible history of a nation is worked up. Even its buildings, even its people, are bits of land. What you see as you go about therefore really is your national inheritance. On you as a member of what is glibly termed a free democracy rests the prime responsibility for knowing when the land is and is not misused. To know what is proper use, and what improper use of the land, it is important to know its history under the hands of those who have gone before us, for it is their work both good and bad that we benefit by, and it is according to how we ourselves remodel what they have done in the town and the country, by farming, road making and building that we carve out our own idea of how life should be lived. To-day when every problem has to be thought out afresh it is a practical way of approach even to housing, even to questions of town and country planning to think of them in terms of the use-or abuse-

of land.

## NTRODUCTIO

The pages which follow tell in simple language a story that calls for an explanation. When the days of reconstruction come architects will not be asked to take over executive control of the machinery of government. On the contrary, decisions will be made by a great many people who, till now, have thought very little about what reconstruction means. They must be educated in time. Every exilted in the country should be at least as familiar with the history of our own land as with the Latin alphabet. The man in the street should know enough history to understand that land can be anything he chooses to make it; he should

know what conditions have produced good results in the past so that he has some standard by which to judge what's going to happen to-morrow. History is interesting to some people for its own sake, but not to many. Most people like it only in so far as it helps to explain how and why things came to be as they are. Historians, unfortunately, don't bother much about the convenience of ordinary people, but actually it is very important that a way should be found of presenting history in a form the man in the street can digest without a pain, for upon the man in the street depends the success or failure of the coming Battle of Britain. In this battle, as in the last Battle of Britain, we must be ready to fight in the streets, in the hills, and on

A professional army is not enough; we need a home guard that knows its business and is always on the watch; always ready to detect and to distract enemies wherever they appear, and to contain them until the regulars can take over. This issue, done in collaboration with the Housing Centre, whose exhibition you's INHERITANCE, now touring the schools, both inspired the idea and provided much of the material, sets out to supply if not a plan of campaign, at least some of the powder and shot. Not, we repeat, for the expert, but for the many thousands of ordinary men and women—the Home Guard—who, under democracy, are the arbiters of the New Order.

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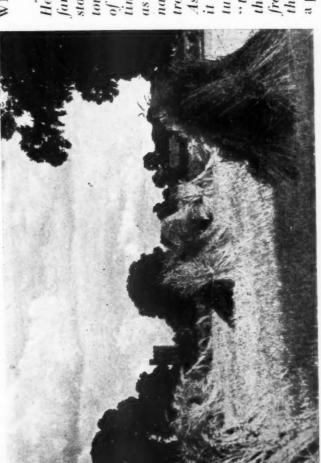
selves one in y, by build-

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D

# DRAWINGS BY ROBERT AUSTIN, A.R.A. RITANC



Here is a typical English field, a piece of turning it into "town." To most people "town" is ugly and "country" isn't. So to from something beautiful but useless to somefarm land with sheaves of corn drying in of our ordinary background that we someas if England had been handed over to the them Progress means a gradual transition thing useful but unlovely. They think, it's stooks, elms in the hedgerous and a church tower in the distance. It is so much a part times talk of it as OUR INHERITANCE: nation, ready furnished with all the houses, trees and country lanes ready in position. As if our only choice lay between preserving it as "country" or building over it and a pity but it has to be.

This column which crops up all through the following pages is a frankly a CUMP. It is the place that is to say where the notes delay veloping the argument of the main theme (large type) are dumped. It nothing is lost if you don't look at it at all. It is only useful for those who want detail.

I paleolithic man was a hunter and an eater of roots and berries. He was not a cultivator and left the was not a cultivator and left the country unchanged. Neolithic man came from Europe bringing his live stock with him—dogs, oxen, sheep and pigs. He needed pasture for his flocks. He did not attempt to clear the forest but settled on downs and uplands.) The Brythonic Celts or Brittons brought iron from Europe. Tree felling was easier. Forests were cleared and rectangular wooden houses became common. Agriculture made strides. Horses became common and poultry appeared for the first time.

complex organizations; large farms under single ownership Actually, the whole landscape is continually 2 Virgilian husbandry reigned until (possibly absentee), run by many officials, each responsible for a particular type of animal or crop, They produced for export. In time of Julian the Apostate, 800 and worked by groups of slaves Britain to the garrisons in Gaul. Jethro Tull. Roman villas complex organizations; changing, even the soil has been made what it is by earlier generations of men and women who lived here before us. The climate, the contours, the coast line and the subsoil are "All nature is beautiful and only man is vile" forgot that he himself had never seen Country is as man-made as the town. Long before the Romans', men were hard at work, changing the face of the land3. For better or That is what this story has to decide. really the only fixtures. Everything else is continually being changed by us. What we the only things we have made. Whoever said nature uncultivated by man. For the English see round us is the work of our own hands. Dirty black sprawling shapeless towns are not worse?

3 in small ways and large, by intention—and by accident. In Quiller-Channel crossed he flings worn-out mud-caked springs up on British soil a wild that never grew there Roman boot was made of single piece of leather, soles studded with iron nails—ancestor Couch's story Roman legionary muddy of our hob-nailed boot. boots into ditch. slogs through I flower



farm), cultivated by villagers who owed him this service in return as service; eggs at Easter, fines on marriage of a daughter, or sale

with large demesne

evolve. Heyday Black Death, 1348.

for their land. Levied dues as well

of a horse. Next the freeholders. Owed no service. Then the lesser

load by boat load, fighting their way across Britain. They settle as they go, some on the clearings in the forest which echoes to the Roman towns, tumbling down to grass. For the to the earlier civilization. They are farmers Prehistoric men, the British, the Romans, Then come the Saxons, boat grunts of their swine, thus the manor\* comes of trees with islands of arable. As the South still run the Roman roads, now, like the Saxons, always conservative, won't modify their way of life to include anything that belonged as here, in Inch by inch the forest is cleared vet mile after mile of it remains, a sea Saxons call it, The Wild. Through The Wild not traders, countrymen not townsmen. good Roman lands, some, into existence. come and go.

holding: strips on the open field of 30 acres (10 always fallow).

tenantry, mostly villeins.

They tilled lord's land as well as their own, gathered his harvest. Below them cotters; men with pasture or common field. Usually had 5 acres by cottage, which

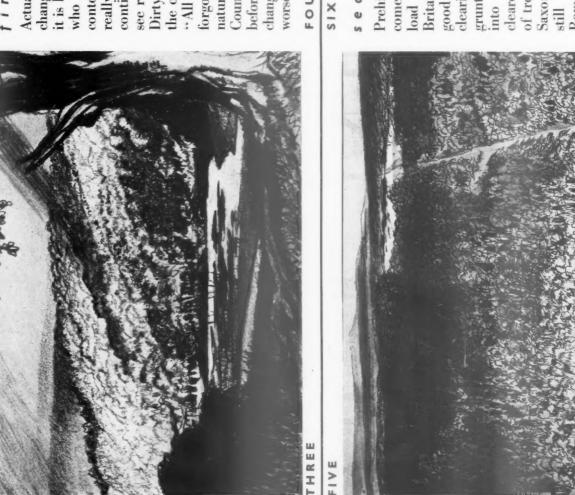
out oxen, without

Cowherds, woodwards (in charge forest), greaves (who kept ; also tradesmen

ditches clear)

village servants who worked for their keep plus a small wage.

they dug with spades.



fishers, fowlers, bakers, smiths.
Usually landless. Most things used on manor were made

occasional marling and liming.

SEVEN

W Z Z

acres of land attached to each, called a croft or toft. Manor house or hall was larger, and surrounded by the demesne, a Usually five or six scattered over toft on a grand scale. in village, not landscape.

e teams of eight oxen were needed to pull clumsy wood ploughs of Saxons and Normans. Few men could master whole team (though often as many as 80 teams in a village), so they combined together to plough land held in

owner of plough irons; third strip—owner of "exterior sod ox"; fourth strip—owner of ox team; the strips and their produce divided thus: First driver; sixth, seventh, eighth, ninth, tenth and eleventh—owners of remaining six oxen; twelfth— man who maintained and repaired 9 twelve strips ploughed with eight plough (itself common property). strip—ploughman; second stripexterior sward ox "



different villagers, but they are worked by a malled pannage: at the end idea of the looks of strip cultivation. Roads. Battersea and Streatham to the high bough should you hunt his game. common plough. The illustrations give an are mere tracks. The England we know is unrecognisable. As for the forest, once free to for every ten you quarter there", and hangs you outlaw and honest man, it has been claimed by and as in an allotment the strips belong to the lord of the manor so that he exacts a pig

three-year rotation: (1) Wheat each man fair proportion of good and bad land. Houses all together or rye, (2) barley, oats or beans, 10 usual custom of manor

field to graze and to fertilize soil with their droppings. This was only dressing worth speaking of village fields got besides (3) fallow—a year's rest during which cattle were turned into

Another privilege of Lord was right of free warren—right to keep large tracts of ground for rabbits, hares and pheasants in charge of a warrener. 1340, Bishop of Chichester's rabbits season all swine from woods There were no fences and no were driven to hall to be taxed in seven, in Sussex I pig in ten. ate most of wheat in village field. Herbage dues also levied. redress.

So the Roman Villa gives way to the Saxon phase third

Callica Civilization.

0 P

LUCY are larrifers Usually landless. Most things used on manor were made there. not traders, countrymen not townsmen.

and tenants, as it were, shared the land, each enjoying certain rights, each bound to perform certain private property made between land, their common means equally binding on both. existence and chattels. Sunder Feudal system determined distinction was chattels were duties ran his on British slave labour the Saxon Their main difference—that while the Roman lord ceorl, though he has to work for his lord is no slave, for he holds land in return for his Both are farming machines.

6 a complete survey was made of all land and farming stock in be taxed every piece of land had to have a tenant and be held of some Lord, even rabbit warrens. Britain, called Doomsday Book. taxation result, to entrench feudalism. assess Purpose, to

in our sense of the word.

This, the Normans, whose church tower now crowns the village green, erect into a cast

service which is the basis of the feudal ideas.

iron system. From now on for many centuries, Saxon, Dane, Norman, or as in time they become, the English, farm the way of the Saxon settlers co-operatively (rather like the Russians

into three vast arable fields and a pasture. Beyond them common land, waste or forest. Arable fields divided into strips to give 7 cultivated land usually divided

today) on what has come to be called the Open

Field System'—" open" because the fields are

not fenced. Like an enormously magnified allotment the landscape stretches to the woods

EIGHT

## phase fourth

But valuable though it is in giving the reveals a grave flaw; it progressively exhausts More men have to work harder Little Man a stake in the land the Open between 1250 and 1348 system the soil". Field



ELEVEN

THIRTEEN

13 from 1300 onwards, as trade increased and money filtered to manor, villeins and arranged for money payments to down, but price of hired labour rose. The medieval manor ceased lords, for mutual convenience, remained the same, yields went to pay, and began slowly to break Break up speeded up by became more plentiful, take place of service.

Just when more hands are needed. Hnot an isolated incident, but last the Black Death<sup>14</sup> wipes out a third of The ploughman is laid under short of hands. "Sheep" says the lord of the manor "need less labour" than crops, they his own sod, which means the manor goes ask nought but a fence. I will enclose my demesne lands and put them down to grass. the village. 12 farmyard manure was scarce since, owing to shortage of feeding during winter. Most slaughtered winter eating. Custom of manor required bestowal of lion's share of manure on lord's demesne, where villagers were obliged to common pasture, which stuffs, herds couldn't be kept each autumn and salted down for fold their flocks for stated periods.



TWELVE

now the game of enclosing the open fields began. "They call me

extortioner, tyrant, cormorant or intruder on my poor neighbour's right, or grand encloser of what 18 gangster methods were used to I'll therefore buy some cottage Which done I'll make my men Ride o'er his standing corn and

was common, to my private use.

evict even rival owners.

near his manor.

Or dreading the difficulties of the labour shortage, he lets the demesne farm to one of once the capital of the Cotswold wool trade). forthwith, and as new opportunities come agriculture starts to wind itself up. For his retainers in return for a money rent. Passing the buck this is called. Thus Farmer-Chief becomes Gentleman of leisure; villein, Yeoman Farmer; personal initiative outs collective effort. Enclosure and individualism are catching complaints, and they turn out More and more manors enclose<sup>18</sup> to men of enterprise, life returns to the where there are fences stock can be intensto be as catching for arable as for grass. Stock too can be bred for type behind process ively grazed, exhausted land put into good heart, bigger crops grown. Bigger crops mean From a running - down fences. land.

Which I can spare but will soon

and suits expenses,

When I have harried him thus

beggar him.

Set fire on his barns or break These trespasses draw on suits

in the night

his cattles legs,

break open his fences

I will pretend some title; want To put it to arbitration; then

will force him

two or three year

For half the value, he shall

if he sell

And I possess his land. New way to pay old debts

have ready money

Massinger 1600.

and worst of a series of plagues, which swept over England for a as trade booms and Other name, hundred years or the great pestilence. slumps do now. regularly

deprived of work by sheep farming or enclosure. Profits flew up and trade expanded. 15 English wool was exported long exports went to be woven in monopoly of continental markets manor declined domestic manufacture of cloth increased. After Black Death home woven cloth gave employment to many England had virtual called "the flower and strength Later as both gild and the conquest; till fourteenth century. the revenue and England." Later as b Flanders. before

for sheep farming, he was saved the expense of the small army of 16"Whether he leased his demesne servants and officials needed to -(Curtler: History of Agriculture). run the medieval manorial farm." (home farm) or

> serious hardship, for till then they had been largely confined to forest or demesne land. But century did enclosures give rise to In not till latter half of the 15th Where there was wheat there shall be wool!"." (Upon wool grew up many an English own, Chipping Campden for instance, above,

breeding possible. On commons animals could mate at will with the worst. The statute 27 Hen.

optimism and enterprise, enterprise leads to experiments with methods and machines, crops 

the Industrial Revolution, which might be a between 1710 and 1795 the called the village industry end of the agri- more than doubled largely owing to the efforts of Dishy and Bake.

heart, bigger crops grown. Bigger crops mean But town, Chipping Campden for instance, above, forest or demesne land.

optimism and enterprise, enterprise leads to experiments with methods and machines, crops and animals19. Thus the turnip jumps the garden wall<sup>20</sup>, which means the farmer is saved from killing off his stock each winter (a revolution mand better prices, better prices wealthier farmers. Wealthier farmers put more back into the land by stocking" and manuring, and the plus thus built up millions of men, freed from the necessity of tilling their own strip, turn their fertile minds to the production of other goods than food. To the production of goods manure, bigger crops, bigger crops bigger cities, bigger cities more demand for food, more deland yields a greater surplus. Upon the surand so is born the next major development they apply the same revolutionary enterprise. or catastrophe, whichever way you look at it) in itself). More stock, more manure.

(hands) at least. Another statute no entire horse under 15 hands is to feed on the enclosures made scientific breeding possible. On commons animals could mate at will with VIII., c. 6, mentions great deterioration in horses, cause being that stature and valeu be suffered to the worst. The statute 27 Hen. "in most places of this Realme little horsis and naggis of small therefore owners of deer parks shall keep two brood chase, waste, or depasture and also to covour marys and felys of very small "hand fulles 2 common land. that forest. state

field the right of villagers to (which are a winter crop), to be used as cattle food. Turnip Speed, 1659, first suggested grow-(clover and rye grass), (4) wheat, called the Norfolk four-course. 20 only on enclosed land. In open change of rotation. ing large quantities of turnips made them new rotation: (2) barley, (3) used as cattle food. 1730. prevented o Turnips, graze

enclosure: "The yield of corn well. By 1795 beeves weighed 800 calves 143 lbs., as compared with 50 lbs., and sheep went up from 28 lbs.to 80 lbs. One of the results of was now much greater than in the 21 between 1710 and 1795 the weights of cattle sold at Smithfield more than doubled largely owing to the efforts of Dishly and Bake lbs., as compared with 370 lbs. cultural revolution. For the roots of the called the village industry end of the agri-Industrial Revolution go down to those fences which enclose the old Open Fields. Don't imagine though all the open fields were enthe Industrial Revolution, which might be



was partly due to the much abused enclosures." -- Curtler: Short History of English Agri-

of 6 or 8, barley 36 bushels; oats 4 or 5 quarters . . . no doubt this

middle ages: rye or wheat well tilled and dressed now produced -20 bushels to the acre instead







closed at the same time. Enclosures were being carried out from the time of the first Enclosures Act, 1235, until the 19th century, though the greatage of enclosures was the 18th. Tudor house with its formal garden and avenue England. As to Our Village, from the new it is clear the land has been enclosed<sup>22</sup> by the beginning of the 17th century. Let us give the picture a date, April 23, 1616". By this time in Our Village the agricultural revolution place are those neat fences which speak of the new spirit, the new methods, and the new men. For the civil war and the Revolution of 1688 sees the old feudal world put down by the Parliament men, the first modern at Epworth in Lines., the last example in is complete. The forest is gone, the common is gone, the open fields are gone, and in their Even to-day strip-cultivation is still practised

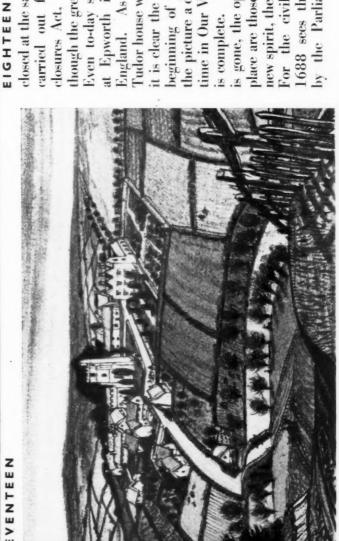
Landlords had to maintain their Right of paths are closed once a year to Landlords for sheep only, but to prevent it becoming again what it was to manorial rights were largely founded on usage or custom. enclosed forest and waste, not start with, the property of the capitalist class from the towns depends on custom produced Farmers enclosed establishment their money into sheep. saved labour; 22 landlords enclosed already tillage rights or lose them. in competition with public right of way. crops ; o were community. way still methods prevent farming bigger

author of Don Quixote, and at Stratford - on - Avon author of Hamlet, breathed their last, while at Sidney Sussex College, Cambridge, a young man of 16, Oliver Cromwell by name, Oliver Cromwell by name, matriculated as a fellow-comon which in Madrid, 23 day

enclosure and the overthrow of

the open field system.

### SEVENTEEN





Englishmen, products of personal enterprise whether in town or farm, whose leaders, known play henceforth the leading part in English political life. Since land still represents social and political power they buy it; get themselves "The most agreeable titles and country seats25 in the modern26 style: to the history books as the Whig Nobility", become landed gentry.

and the like. About 70 families ruled England in the 18th century. 24 Cavendish, Russell, Bentinck

rupting avenue from garden. Later invention of ha-ha (ditch ut of garden) which for hedge and thus fashion of bringing country right up to house. It was a ha-ha John like a small moat to keep park avoided this annoyance to the Mytton jumped in his tandem when he wagered £150 he could drive cross country from house eye, made possible later English where he was dining to the turn-pike. He won. 25 notice hedges in photo, intercattle out of deputised

To-day " nobility and gentry " to remember they were the red hot modernists. Working man "betters." Typical true story:
a nobleman had two estates on
one of which a four-coultered M what we call "Georgian." servative and much irritated his but in 18th century important are looked on as the die-hards, was the died-in-the-wool



of their lives a work that "shines down the perspective of history like some masterpiece "The grand style in painting, the 'correct' in of natural art"," which under their hands the society England has ever known" they cultivate letters, the Latin tradition in oratory," making countryside<sup>28</sup> itself becomes.

TWENTY

TWENTY-TWO

TWENTY-ONE NINETEEN

## 29 ' Cromwell's men,' and fines phase fifth

But a new crisis has gripped the countryside. Exhaustion has overtaken not the land this time but the forest". By the Restoration men down-the trees-for centuries the background of English life. The lords of Admiralty grow sponsors Evelyn's Sylva<sup>30</sup>, said afterwards to be Suddenly landowners, old and new, become Planting. Plant they do, at first in the congeometrical shapes on the model of Louis XIV's Versailles. Badminton for instance, or Boughton, whose second Duke's activities got find that something besides a king has been cut pale, but Charles II, alive to the danger, responsible for the planting of a million trees. alive to the duty, the profit, the spirit of tinental manner, as they have always done, in symmetrical patterns, straight avenues and him the title Planter John.

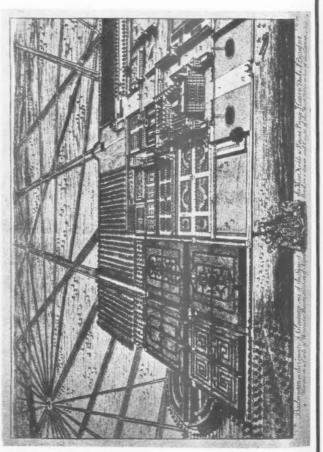
streamlined modernity) had been So he sent another to his second estate, but furrow ploughed, bailiff steward and servants saying plough was unusable. "No argument his to be convinced; till at last my lord went into the field, set the four-coulters with the wedges lordship could urge to convince them of their mistake prevailed, because they were resolved not himself, threw off his coat (and ensigns of honour), then ploughed a whole land. . . At this the ploughmen were so ashamed they condescended to plough well with the four-coultered ploughs. latest punoj umop -Jethro Tull. 1733. successfully used. (the

27 Lord David Cecil: The Young Melbourne.

17th and of 18th 28 contrast in these two Avenues v. about which more anon. trations very marked formal landscape of informal landscape century.

incurred during the civil wars, had brought supply of timber periously low. Restoration planting gave us the oaks that won Trafalgar and the Nile. brought to bed of a daughter (considering that wood and timber 30 " I have read of a certain frugal man who, after his lady was was coming on while the owners on his lands oaks, ashes, and other profitable and marketable trees and undoubtedly calculating that each of these trees might be and most industrious Italian noble number of 100,000 were asleep), commanded servants immediately to to the

intended to be given to his daughter for a portion. This was good philosophy."--From would amount to 100,000 francs Sylva (1678) by John (Evelyn's Diary) Evelyn (1620-1706). worth 20d. before his daughter (which is near £10,000 sterling) marriageable, became



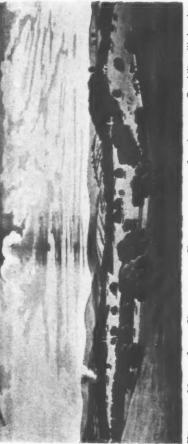


## phase sixth

gentry, brilliant and individualistic, evolve what shaftesbury in 1711; he could no constitutes England's greatest contribution to in him for things of a natural European arts although few neonly imaging kind he said. Note the word But as the 18th century develops the new Whig Manifesto of the aesthetic it to be other than Nature in the Raw. Kent and Bridgman, Shenstone European art<sup>31</sup>, although few people imagine kind he said.

TWENTY-THREE

revolution was penned by Lord natural. Leaders of revolution



Boughton, whose second Duke's activities got Diary Evelyn (1620-1706).

him the title Planter John.

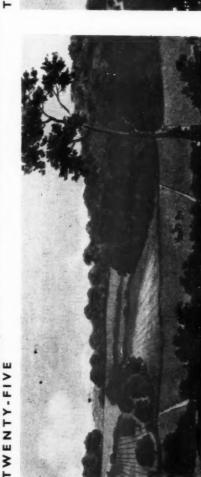
Specialist and of the speed the second the second s

out in favour of the new informal art of France, Germany and Russia. Was avenues, formal patterns have been thrown of European formality. Symmetry, a masterly Compare this with 21. Another redistribution of the timber in the first sicture he re-creates in the second an Ideal revolution-this time in taste. Watch Humphry Repton. andscape.

Humphry Repton, first man to Brown, Between them, though constantly (or naturalistic Payne Knight, Uvedaile Price. or informal) landscape, antithesis quarrelling, they evolved theory style himself landscape gardener the poet, Capability capabilities of picturesque

## TWENTY-SIX

TWENTY-FOUR



First in their parks and pleasances, and then in the countryside itself where they drop their the gentry plant ideal landscapes by Claude. acorns in the hedgerow and rebuild the cow-The Beautiful, the Sublime, house as a ruin. Tree planting of course is the Picturesque" are with us. Urged to plant landscaping.

known on Continent as the English, in England as the Modern, style.

(1756), defined passion caused by the great and sublime in nature as astonishment or horror, passion excited by beauty as love and complacency. Price defined picturesque as quality painter looks for in an object. 32 Burke's Sublime and Beautiful



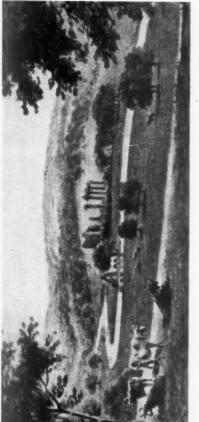
33 Humphry Repton, 1752-1818. not the only trump in the landscape gar-Without water no scene can be oblique ride is a little masterpiece. From said to be complete. So Repton<sup>13</sup> obliges with a lake." An object lesson is how to turn an the terrace at Bayham Abbey he is lucky to honest bit of arable into landscape. dener's fist.

overflow weir which villagers incorrectly call "the waterfall." If you do you will know that lake is an improvement, the word a lake go to place where original stream runs out. You will nearly always find a dam there with an the 18th century had for improv-34 next time you find yourself near ing upon nature. to dramatise



proved taste, awaiting only the full growth of Too many ruins he thinks. He pulls one down, and with it the distracting conifers. He tidies up the river. The finished article" is in the apspot a ruin, two ruins<sup>35</sup> in fact.

35 Ah! then most happy, if thy Wash with the crystal cool-36 Repton did number of what he called Red Books for improving Some mouldering abbey's ivyness of its rills vested wall. vale below,



from the Bayham Abbey Red Book, 1799-1800, are illustrated through the kindness of the through the kindness of suggested improvements. Marquess Camden. BEFORE designed the trees which it is worth remembering the should see this landscape as Repton really meant it to look, if it were there to look Read on and compare. improver himself will never live to sec. at. But is it?

37 This isn't a misprint.

side is example of industrial development (agriculture) carried modern scientific treatise on tillage. Said weeds exhausted get rid of weeds, and invented a drill to do the job. Claimed that hard ground, by preventing roots of plants from developing, reduced out by men with a sense of style. Jethro Tull published the first rows, so that horse-hoeing could food, so invented a horse-drawn harrow to clean and free from weeds, gave 38 In Horse Hoeing Husbandry, 1773, stir soil between growing crops. better results than traditional seed turnips as recommended drilling available supply of much Discovered that fertility

killing their stock, and thus to multiply herds and manurial dresseffective acreage in country by a third. One of the great figures in world agriculture.

Said to have increased

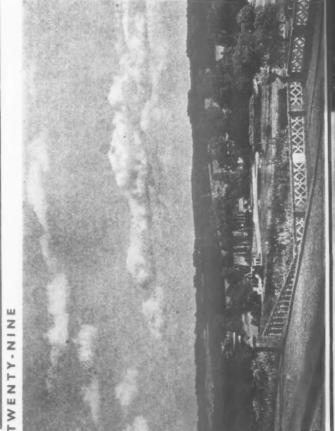
Such crops enabled

instead

farmers to winter

## TWENTY-EIGHT

Not a bit of it. Art. Great men whose names Here, grown to heir full size, are the trees Repton planted 140 years ago. Turn the page and you will come to its industrial" equivalent-with the church tower deputising for the ruin. Nature? are hardly known to the average Englishman, Coke, Kent, those dreaming squires Uvedaile Price and Richard Payne Knight; not to mention active farmer and improving landlord. But the common Englishman is a tenant now; he has lost his land and his rights of The farmhand gets a wage and no By the the veoman and the Open Field are dead even have created the conditions for this scene, Evelyn, Tull,38 Bakewell, Young, Townsend, middle of the eighteenth century the peasant, England longer has a field to keep a cow. if they won't always lie down. lere is the actual scene. pasture.

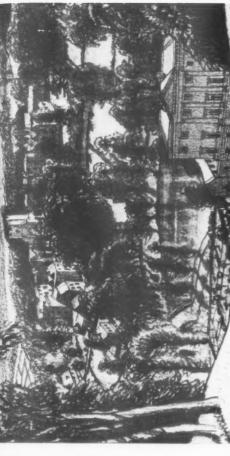


TWENTY-SEVEN



begins to look what we mean by England39, human in scale, full of incident and variety-

39 beginning of the 18th century about half arable land of country As the century advanced more and more parishes open. Still



yeoman and the Open Field are dead even effective acreage in country by a hey won't always lie down. England in world agriculture,

if they won't always lie down.

Inc

job practically completed by Enclosure Acts of early 19th century. were enclosed for cultivation the humanised landscape. Not that the men who made this masterpiece lived to enjoy it.

1776 and 1816 increased rent roll of his estate from £2,200 to £20,000. Spent half a million on 1818 was year of yet at his sheep-shearing of that of Holkham, between terrible distress all over England, improvement. 40 Coke,

tion of his estate, and not a single under cultivation largely by his ings, known as Coke's Clippings. 7,000 present at last one; English agriculture then acknowledged by European experts to be the year Coke had trebled the populaperson was out of employment, though everywhere else farmers were turning off hands and cutting Between 1790 and Transformed agriculture crowned king of European agri-culture. Experts travelled from all countries to his sheep shear-But for him the country would not have been able to grow enough food during the A great stepped aboard a ship built from most progressive in the world. an acorn planted by himself. down wages. Between 173 1810. 2.000,000 acres of planter when old he have been starved out. Napoleonic wars, land in England of England. efforts.

## THIRTY-TWO

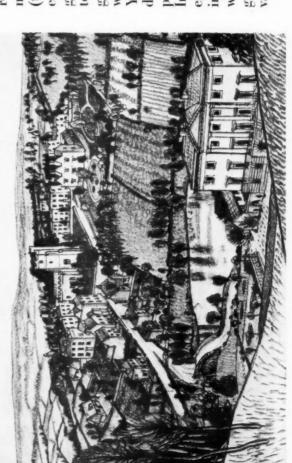
THIRTY-FOUR

They planted and improved; we reap the A landscape takes a long time to mature. Newly planted trees for instance got at it) look worse than no trees. You have take a peep at our village in the early eightdidn't like them. They made it immensely eighteenth century word. Not by exploiting it in the manner of the modern estate developer great landowners of the eighteenth century were very definitely men who loved their land. You would have to admit that even if you profitable to themselves but they did this by Improving it in every sense of that fashionable who buys land cheap and holds it idle till the eenth century when the improving landlord growth of a neighbouring town puts up its to be public-spirited to plant trees. value and he can sell out at a profit. result.

## THIRTY-ONE

THIRTY-THREE





conceive

evils which

some Mr.

we have just been inspecting; a

Mr. Escot: I confess, the sight

city, as it were, in its cradle of those manufactories,

have suddenly sprung up, like fungus excrescences, in the bosom me with as much

impressed

of these wild and desolate scenes horror and amazement as the sudden appearance of the stocking manufactory struck into the mind of Rousseau, when, in a lonely congratulated himself on finding a spot where man had never been Foster: The manufacturing system is not yet purified from

of the little colony (Port Maddock)

## FACTORICULTURE phase seventh

So far the story of Our Village has been traced These Their Wesley's chapel bells are ringing the Norman to the kind of rural apotheosis you expect in those books about Britain Beautiful that quote John of Gaunt's speech from Richard II on the title page. But now a grimmer scene is to be enacted which concerns us all. New machines working on water power are beginning to water. So to the river that his lordship damcompete with the handicraft of village craftshomes are tied to the power that drives them, church still dominates the scene. Then steam. med to make a lake, now come the mills. and to the mills come the villagers. Though men. Machine-made goods are cheaper and machines need homes". And hands. the market. drive the others off

valley of the Alps, he had just

Complicated are greatly overbalanced by their the spinning-whee machinery: behold its blessings Twenty years ago, at the door woman with her spinning-wheel of every cottage, sat the concomitant advantages. Escot Where

## THIRTY-SIX

## THIRTY-EIGHT

THIRTY-SEVEN THIRTY-FIVE

THE NEW MONSTER

as driving machines. Come the railways to food bought with the goods supports more Cottages go It is just an area of land which has been enup . . . more cottages . . . pack 'em closer. Before anyone can start in to get a system Don't be taken in by this. Here is no city. It is Our Village which has been swamped by an industrial camp. Shapeless, black and sprawlwhere do all the hands come from? From ing, the camp has neither end nor beginning. Steam engines replace water-power in factories. Steam is seen to be a way of pulling, as well ", And still gulfed by the lumber of mass production. And it grows. Municipal offices are built, and they put "city" after our village's name. haul goods" away and bring back food. hands than the village can house. going. Our Village is a "town."

near and far. Landless peasant, evicted tenant, Wherever lished, the children of the poor are plate the little human machines insulated occupation of the inthis boasted machinery is estabdeath-doomed from their cradles Look for one moment at midnight into a cotton-mill, amidst the smell of oil, the smoke of lamps, the rattling of wheels, the dizzy mechanism : contemthat keep play with the revolutions of the iron work, robbed at that hour of their natural rest, features, more ghastly in that baleful and malignant light, and tell me as of air and exercise by day complicated motions pale and dustrious cottager? observe their diabolical and



if you do not fancy yourself on the threshold of Virgil's hell."—Pedcock, Headlong Hall, 1816.

costs of production and therefore Latter, therefore, was thought which favoured concentration was were available (i.e., in the directly affected manufacturer's housing workers in towns didn't. need for personal contacts; for Cost of transporting centralized markets, exchanges, Cost of feeding Another iron, cotton unimportant. villages). profits.

mine position of factories previously scattered over countryside wherever labour and food

42 raw materials began to deter-

population of England was about 7 million; from then onwards trade. Now it is stationary at forty million, Greater London, 94 million. London was 400,000; of Bristol and Exeter, Plymouth and the rest These were the great merchant (as opposed to population increased as fast as Norwich 30,000; of Gloucester, population market) towns of the day. less than 10,000. 1600 43 about



authority.

to Our Village is it.



Landless peasant, evicted tenant, 94 million, greater

where do all the hands come from: x tom

near and far.

ful and malignant light, and tell me if you do not fancy yourself on the threshold of Virgil's hell."—
peacock, Handloom Hall, 1816.

FORTY

Where every man is for himself

And no man for all.

And hell without order

Not one taketh pain may it well call

Commons

But for the wealth of the Do seek their own gain

meed

For officers and all

That seek after

Robert Crowley

"meed" = gain

in 1852. The rich men who make their pile of croquet was played on Lord Lonsdale's lawn out of the machines hurry away to spend it in a sweeter part of the country. Not a nice end ting up a police force. It becomes the thing mitories rise beyond the slums with castles, gravel drives, wellingtonias, monkey puzzles, conservatories and croquet sets. The first game to leave the "town," to live outside it. Dordisease prosper. The "black coated workers" protect themselves and their property by seteach corner by the church. There is little else that they can afford to buy. Vice, crime, THRAVELLERS.4 A landless proletariat of are paid a wage and there's a gin palace on opposite, and the "Irish" sign LOGINS FOR "free" men, they owe no one allegiance. in the caubeen in the middle of the crowd No one owes them responsibility.

THIRTY-NINE FORTY-ONE

into Irish 4 children were pressed

mothers, and their children, crowd into barracks and worked a shift cellars and back-to-backs. See the Irishman to one bed. from Connaught cabins, their wives, their hand over orphans to factories. service. Poor law guardians would famished ruined village craftsmen,

FORTY-TWO



it would cost less to provide sanitary homes. Ministry of Health still town planning " in general all diseases are attended with charges immediate and ultimate, on the and suggested infectious aries are seized with vomiting or "The houses are never cleaned or ventilated. They literally swarm with vermin. It is almost 45 Chadwick reported in 1838 on sanitary conditions in London. Missionfainting upon entering them. impossible to breathe. Went on to say and poor rates," epidemics

in this country used electric

## SUBURBANISATION eighth phase

Now imagine a miracle. Imagine all that never 46 in 1938 83 per cent. of factories it was, only still more desirable when one re- "Speed limit of 4 m.p.h. removed happened in Our Village. Here it is just as members the bad dream on the page before. era has dawned—Electricity\* is replacing steam, For after all Our Village missed the railway this winding road. Safe? Not yet. A new and the roads are ruining the railways. With but because people don't think it looks like ribbon development<sup>46</sup>. In a way it is more sinister even than factory development for no the motor car" has come a new kind of camp, In a few months age. Perhaps it lay off the main route up unplanned development destroys the work "town" they just call it "development"generations of Englishmen. limit can be set to it.

Tempting persons
but actual cost of building. Land
lying back from road being in-

Fempting because no cost remains

A bad arrangement because it speed; (2) is dangerous for people living on it, including their

purpose of road-

defeats

children.

development" is only a ribbon.

48 new roads built for speed make sites for speculators.

in 1896. power.

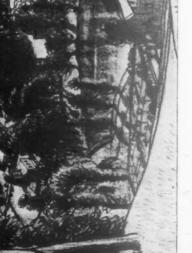
land means investing large sums in drains, roads, mains, wires and But developers don't lay Laid afterwards by town you and I pay for them. Thus estate developer is subsidized by 49 estate developers buy land cheap, and sell it dear for building Furning farm land into building





FORTY-SIX





FORTY-THREE

FORTY-FIVE



painful

are very



into a museum and its lake into a municipal industrial camp the great house was turned garden, but here so the house is left derelict. FORTY-SEVEN

FORTY-NINE

so These two drawings are by architect Maxwell Fry of an actual site. This is not improvement. Trees should be left standing so that country is not again stripped

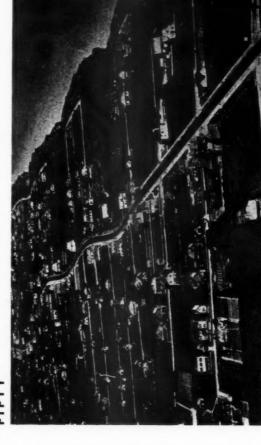


the trees cut down and the park "developed" bare. People want to get away from town. with Desirable Residences.

Well why not? their owners have to sell, turned Parks preserved as public into clubs or holiday homes.

### FIFTY

FORTY-EIGHT



to build houses in the charming field next are not as a rule particularly at the time-street widening, for successful, and instance. door without realizing that their action will Without a plan the turn country into town?

A few features are local feeling and a proper local government), lungs (open space), picture galleries and schools are even though all its organs may means allowing roads and houses bræ and flesh of cities; fine things in their way, but not all of what necessary too (civic centres and also some vital organs Theatres, concert halls, libraries, a town's brain. ing that a town is anatomically from the start, developed for many Unplanned development the land in the means this mass of flesh and bone can be given a human appearance reaches its majority. Apart from the inconvenience of 51 Roads and houses are the vertedrains, health services, factories), not to mention sinews to hold the thing together (clubs Finally, of course, it is desirable to have a brain. Planned development means seecirculation hopes that by to spread over and a good munications). not be fully is wanted. parts such like) correct. shops, in the absence of a plan who is to reconcile the self-contradictory wish of Mr. Smith to minutes from his office? Who is to prevent wrong is building yet remain 15 Smith's pleasure from being interfered not let them? Is there something intrinsically For consider.

What is pat

development,

building

not

development without a plan<sup>51</sup>

in the country and

live

vile about roads and houses?

contrary nothing better.

an uncomfortable childhood this procedure involves a number of very expensive operations which

by Mr. Brown and his friends who want

spends

The trains are nearly empty.

goes after it.

development

building

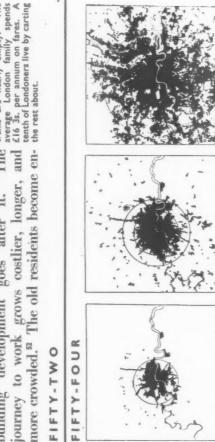


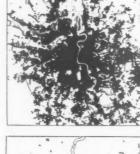
The new their Here is the process going on. and the Smiths are wasting always receding itself browns country efforts.

FIFTY-THREE

FIFTY-ONE

ing and 5 and 6.30 at night, majority of people go to work. During peak periods most passengers most passengers Rest of the day 52 between 8.30 and 10 in the morn-





Dutchman or neighbouring squire). Rigorous limit set to immigration good club, difficult to get in to. Elizabethan Statute of Artificers serving seven years' apprentice-ship. Also forbade anyone with-Fown was like a forbade anyone to set up in trade journeyman artizan without first drawn from agricultural pursuits to become an apprentice. No 54In middle ages town and country or even work for 2 applied equally distinct to opposite quite

FIFTY-TWO



Unplanning involves. Stretching into infinity, 4 from country. 7, 700 square London would regard the title we give this front of you, taking up with their travesty of a city as a slander on a great name. Stand on Epsom Downs on Derby Day and get an idea of the fantastic waste cars a few acres of the downs are a million One tenth of its entire popuall lies revealed to the eve. a small portion of "London," Londoners. miles in there in lliw nov





tirely built in. Look how London<sup>53</sup> has grown spawned over the Historic in the last hundred years. Nearly 30 miles London we call it, but of course it isn't. It is a shapeless rash Thames Valley from Chalk to Chalk. of building development across it measures now.

53 Eleven-twelfths of population (2 — 2½ million) worked on land in 1485. As manor declined, village zations, to govern their affairs. Trade as opposed to commerce was local. The names of gilds give a good idea of character of town life. Barbere for and formed gilds, or trade organiservants set up in trade in towns, Barbers, fishmongers, etc. 1935

And

muddle.

houses per acre meant A limited number of space for gardens. Bye-laws were made to control spacing. This Local Councils were given power to clear slums and to rebuild. meant wider streets allowed sunless courts & back to back houses, Uncontrolled building

eligible for apprenticeship as merchantorshopkeeper. Younger yeoman ō one under Some of lation. True their cars aren't quite as big as their houses but . . . . Circumspice.

FIFTY-SEVEN FIFTY-FIVE

was forbidden. of houses

enterprise got out—out of the town, outside jurisdiction of the gilds, back into countryside, into town Avoided Industry had same trouble with gild, as had homes of villagers put out of work by enclosure—and this saved their bacon in every sense farming with open field system gilds held back enterprise. city, Was planning in that age. became too inelastic. nobility modern into trade. anarchy

## FIFTY-SIX



tunity for reconstruction occurs, but the will is streets, asphale an exhausted public. And Homes for Heroes does the rest. The real housing work is done by the building societies, but it is unrelated lacking. Slogans like Safety First which seem to a general plan. In this way the speculative with houses an area as big as the 700 square builder between this war and the last covers miles of London we have just been looking monstrous enough to us breathe balm over

those 700 square miles must be taking life pretty easy. If all that waste meant freedom Reformers have been able to get improvements means just the opposite, inconvenience, frustration, and, paradoxically enough, congestion. we wouldn't need to worry. It doesn't.

at. At such a rate does Unplanning grow.

Overcrowding

One tenth of its entire popu- to become an apprentice. No

d HILLIAN

Londoners.

Barbers, fishmongers, etc.

I names Valley from Chalk to Chalk. Historic agood

1938

children born in Out of every

only 53 died before they were I year old. England & Wales.

solved 15. After the Great War a unique oppor- 15 Lack of space, filthy air, sunless playgrounds, result from through the lean times. in detail, but the real problem, how to live rural industrial) life has never yet been a handsome urban industrial (as opposed to

nor construct. That work is left to thousands of small builders, out of 3,998,000 houses built since last war have been built 56 Building societies neither plan usually without the resources to lay out roads and plan estates. Only when Mr. Brown decides to buy does building society step in. It lends him money if he can't afford to pay cash down, because builders won't wait. 2,885,000 builders won't wait. 2,88 out of 3,998,000 houses

433

# phase ninth

To the sound of And then one day the old regime cracks up. Very suddenly. On a moonlit night of good bricks and mortar coming down faster than visibility an epoch closes. they went up.

wich

November weather



spire.

for a hundred years.

water :

and

FIFTY-NINE

SIXTY-ONE

formed the battered streets, and already people are talking of the better planned Bristol that destruction will make possible. The city architect (Mr. J. Nelson 58 " demolition squads have trans-Meredith) foresees a new and more beautiful city." 59 " slowly but surely and with cheerful determination Southampton is making order out of the chaos created by air raids. Departmental stores are starting again in small shops. Business firms have found accommodation addresses in private houses."



# phase tenth

60 " mushroom shops built in a few hours are now open in Coventry for the duration. When Southampton, Coventry-and in Our Village tooin London, When the smoke clears,

burning. Not a pall of smoke, but a thin fog of smoke and steam like that strange new smell that this war has produced—mixture of the 57" Roads blocked, warehouses still a concentration of the blighted smells of saturated burnt timber and brick dust with the emanation the steamy sky a series of ragged loops . . . walls flaked and pitted, as if they had been under water from cellars and hidden places. The ruined cathedral a grey, meal-coloured stack in the foggy and still hot and wet from fire close; redder as one came nearer, finally presenting itself as a series of gaunt, red-grey facades, stretching eastwards from the dusty but erect tower and Outline of the walls against

SIXTY

SIXTY-TWO



men count the cost, and here they discover a curious thing; though the cost is high in terms of masonry, the damage done isn't on a scale to make replanning more essential And vet the will to plan which the industrial revolution and the Great War couldn't kindle, a few Reconstruction is born, and the age of transi-In Coventry they fill up the gaps with cheeky little asbestos shops designed hundred thousand incendiaries have set fire to. Reconstruction than it was before the blitz. to carry them through until tion is upon us.

blitz its main shopping centres were demolished. But Coventry Coventry after its heavy refuses to be wiped out. Not only have the bombed sites been cleared and these temporary, but attractive, little shops sprung up, but trees have been planted along generously wide pavements. A complete row of these shops can be run up in a day."

air attacks have long ago been rehoused; along the main ground of yawning craters and demolished houses is one of the thoroughfare rows of shops have 61 " the routine life of the inhabi-16,000 people left homeless by the savage November and April been established in temporary structures, and from one end of d phenomena of the war. Coventry against along methodically tants

the town to the other communal feeding centres are operating, serving an average of 7,000

can begin.

62 world-famous for Lady Godiva,

When the smoke clears, in London, South- 60" mushroom shops built in a few hours are now open in Coventry for the duration. When ampton, Coventry-and in Our Village too-

Reconstruction feeding centres are operating, serving an average of 7,000

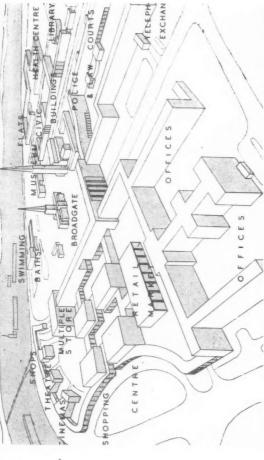
to carry them through until

can begin.

a day ... day

\*

remained as before, unrelated to market place, two or three churches and a network of narrow manufacturing motor cars, bicycles growth: queues of traffic, blocked streets that, were never designed to possible to 62 world-famous for Lady Godiva this ancient city has a Cathedral, streets. Round these a vast new up, receive it. When war began city architect was already preparing scheme to remedy congestion. prepare a much more ambitious scheme. So much of the centre of the town has been destroyed that it is possible now to redesign But centre of industrial area has sprung industrial Blitz has made it principally. new the



actually going up. The Government right now and two main railway stations boulevard will be space will abut. is spending £1,000,000 a day on building.

Underneath

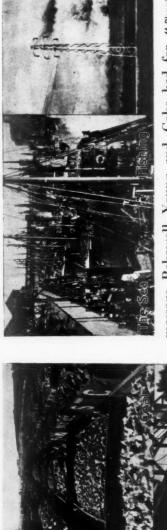
ever needed, and inside it in an area where no trams are to be allowed space is to be reserved underground railway if one for an enlarged civic centre. 64. Alderman Hogan said: "We yet, and we have not drawn up agreed that the slums must be rebuilt in such a way that they do not believe that we have finished with the bombing here plans, but we have will never be slums again." any detailed

are thousands of people waiting to be rehoused. This is going to be done partly by building new 65 "the authorities in Liverpool have too much work to do to with flat roofs so one-storey houses, a development so that an emergency measure will become part of permanent rehousing." on the one-storey shop idea, one-storey houses are to be built with walls of regulation shelter that after the war another storey spend much time talking. introduced in other towns. be added, thickness, Can

## SIXTY-SIX

That is why reconstruction should start now. is something that will get in the way when For every unplanned building that goes up now a bit. It takes many men to build a million pounds but very few can make a plan. We involves all of us. A few architects can make can start planning now. What we have to realise is that in a democracy the will to plan all the drawings. But they can't do all the ning are. And that is where you need to understand something about your inheritance. The planning, pick up thy musket. That was the planning begins. Is planning difficult? Not They can't tell the House of Commons its That is your job. To do that you have to understand what the problems of national planmessage the countryside is trying to pass on is a simple one: just to say in this matter of thinking. They can't do all the shouting.

SIXTY-FOUR When does Reconstruction begin? Answer, all we not yet public. Now. Here is a new plan for Coventry already Central feature of plan is said eleventh phase RECONSTRUCTION to be an inner ring road on in the round. But there are many other plans which most of the arterial roads it as a whole. SIXTY-THREE SIXTY-FIVE



farmers when agriculture broke away from the William the Bastard's Domesday Book was manorial system, that earlier international plan. is neither un-English nor new, but in each age a the basic problems of planning are always the message Bakewell, Young and Coke had for national planning on a grand scale. Planning new crisis develops new problems66 even though same:—How shall we use our resources? First

s so unpopular he his early trials by His machine was y the Browns, of exist Common, of Fenwick, Northuminvented first modern reaper, 1812, but like most new reaper for instance, out of the agricultural plan, and enters into every operation, large or a wonderful instrument, growing small. No machine would then repercussing on complicated by ideas it was had to make 66 Planning McCormick moonlight. improved organized without berland,

## SEVENTY

03

emigrated

who

Alnwick,

SIXTY-SEVEN SIXTY-NINE Canada, taking model of Com-

cultural implement makers)

Exhibition, 1851.

are to-day

SIXTY-EIGHT



into towns, ports, mining, grass, corn growing, and industrial corn growing, areas-

geographically and geologically call for their own special development—is called Regional Planning. 67 this mapping out of the country -that is into areas which

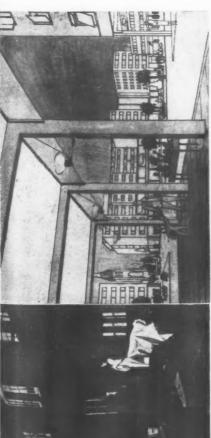


is 57 per 1,000. For Glasgow it is 103, Liverpool 86, Newcastle 80, Edinburgh 70, Manchester 71 England and Wales as a whole is 57 per 1,000. For Glasgow In 1936 one dwelling house out of every fifty in Leeds had to be treated for bugs. Sheffield 60,000 and Leeds 70,954 rate (clearance areas 120). Bracstill has 30,000 back to Birmingham mortality 68 Infant houses. Coventry needs it.

and foremost, how shall we use the basic raw housing ?47 How much to cleaning up the cities material, land? How much to agriculture? railways and golf-courses, to parks, suburbs and Hitler helped; now the city architect's depart-How much to industry? How much to roads, that need cleaning up.49



organize process of production at



ment is hard at work getting out schemes for the city's centre. Central Redevelopment", this planners discuss is what the inner ring of a is called in planning terms. The question city should consist of :- Factories and Flats? Shops and offices? Parks and public build-SEVENTY-ONE

parts of Manchester 61 per cent. of daylight is shut out by smoke. In London traffic is reduced to average speed of 8 m.p.h. Why not move out of old towns and build new ones? Because millions of = pounds have been invested in roads, 69 Why redevelop city centres ? railways, sewers and gas mains. work. Because they don't



COVERLY RECEGS II. In 1936 one dwelling house our y architect's depart- of every fifty in Leads had to be treated for bugs.

Hitler helped; now the city architect's depart-

mD.

that need cleaning

for their own special development
—is called Regional Planning.

century; airy, light, cheerful, and spotlessly clean (these two buildings are factories at Welwyn). Because good roads and electric power are widely available, planners realise that what are What do you think? Factories today are different to the mills of the nineteenth called the untied industries could be located SEVENTY-TWO

material, collect finished goods, make payments; in short to When roads were primitive, merchants and traders at home worked through representatives. 1582 the word factory used to mean an establish-ment for traders carrying on home factor's job was to hand out 70 Factory - derived from the word Factor, which meant agent. make payments; in short business in foreign country. and abroad

# SEVENTY-FOUR



Should industry be decentralised" they ask themselves, that is taken out of the towns which have grown too big, and sited in country districts where the If so what Should the at a greater density; for instance, by building ow densities? However we live we live in Our houses are arranged to be in shops, schools, clinics, cinemas, fire-stations, great cities be made smaller by building skyscrapers? Or do people prefer to live at touch with services that are there to serve usworkers can live near their work. will become of the country? in any of a thousand sites. groups.

ing workmen together in one building, word factory came to mean a building with a plant for the manufacture of goods. scattered amongst large numbers of cottagers and villagers. Later as custom grew up of collect-71. One way 'of decentralising in-

persuade people to go there. Letchworth and Welwyn not yet dustry is to build new towns. New towns round old city are called satellites. Two big difficulties: First to find a site that doesn't just join two existing towns together. filled to capacity.

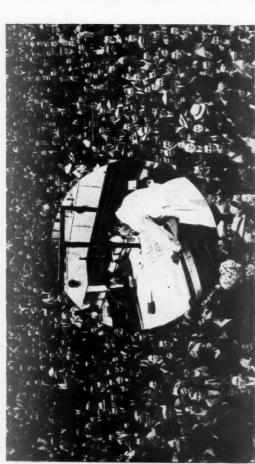
SEVENTY-THREE



plague flea. Their one good service; since then plague hasn't

One imported rat

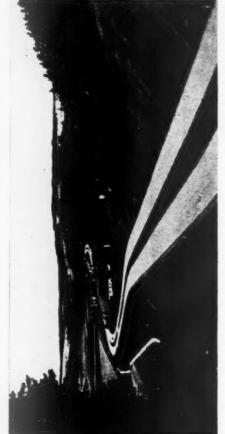
carrying plague might infect entire



post offices, town halls, police stations, gas, dama water, electricity and drains, along with killed which come an army of human parasites ship, and pests—rats, for instance?. Finally com- graduser.

S, damage; in Cardiff 36,983 were.

In killed in one year. Modern grey rat first entered England by 35 ship, 1730, from Russia, and gradually did in old English black 1- rat, which had carried deadly



munications which bring the milk, the paper, service: sin the post and the air mail. Which today enable carpeared one to breakfast in New York, and dine in population. London the same evening. Communications mattering provide the contacts by which our complicated fasted in Brissel lives; indeed largely determine where in Britain the in Britain the

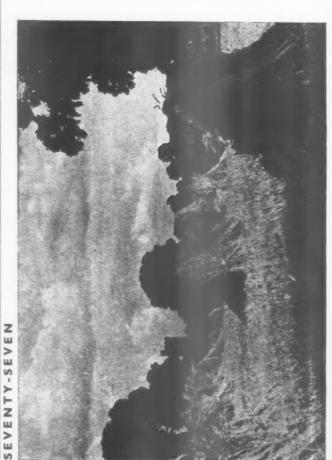
73Atlantic Ferry pilots have breakfasted in Britain, flown to Newfoundland, and returned to dine in Britain the some day.

#### that a modern state makes on its land surface. When a country is it is an outrage on posterity to misuse a single yard of land—the eral consent, would, I suppose, be worthy of being cherished is the occupies. . . I am concerned primarily with the proper utilization of the land surface of Great vast and the population small, the islands the matter is of extreme regarded as its greatest heritage, which a nation Britain, and it seems to me that the first thing to be decided is the question of the priority of claims hardly arises; but in these small not an inch of land to spare, and 74 The culture of a nation by gen but a heritage perhaps equally priority of the innumerable claims urgency. If we take any long view case there is obviously outrage has been land surface the First

sufficiently perpetrated already. Sir George Stapledon, The Land.

# SEVENTY-EIGHT

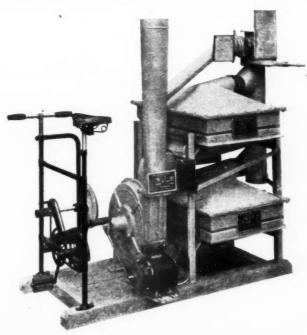
thought of as a large, a very large, Estate: mostly Whigs at heart). A big chance has come the way of the people on the estate, the We must learn what is the action. Remembering that the distinction we have been in the habit of making between the beautiful country and the dreary town is nice because our fathers took the trouble to a Survey-then a plan of action-and then The countryside is an industrial area, We can make it as vile as our quote "Our England is a garden." Our Engheap has run amok. But it might almost be run at the request of the life-tenants by 600 more or less carefully elected stewards (still When people get sentimental they land is not a garden. Or if it is the rubbish towns or our towns as good as our country. required of us. And then we must act. biggest in its history. make it so. it lives. false.





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Societies and Institutions

#### **POST-WAR** HOUSING

Following are extracts from a Chadwick Trust paper, "Post-War Housing in the light of War-Time Experience," read by Mrs. Blaise Gillie, of the Society of Women Managers, at a meeting of the Royal Society of Tropical Medicine and Hygiene, held in London on December 9.

THE problems of post-war housing and to a certain extent the experience derived from the war in connection with housing are bound up with the work done in the twenty years between the wars. To see the problems clearly it is necessary to review the work done and to note the mis-takes made in that time. The work done can be summarized under the following heads :-

Four million houses built by public authorities, nearly all of them bodies who had scarcely built a house prior

to 1914.

2. After an initial misunderstanding of the problem plans were made to deal with slum clearances (1930 Act), with overcrowding (1935 Act) and the provision of communal amenities (1937 Act).

3. A beginning was made under the Central Housing Advisory mittee to improve the standards of maintenance and management of housing estates.

That is no mean achievement despite the body of well-informed criticism that can be levelled against it. The chief defects of that period as I see them are:

Lack of vision in the planning of estates so that nearly every town in England now possesses a "Council housing estate" of mediocre planning and design quite unworthy of the traditions of English archi-

Bad building particularly in the early years due to the urgent necessity for houses being met while materials were still scarce or inferior in quality after the depredations

of the last war.

Although the problems of slum clearance, overcrowding and social amenities were at length realised they were always perceived much too late, and the problems themselves

were not treated on a big enough scale.

The question of the education of some of the tenants to a social standard fit for the homes they were to live in had been largely

ignored.

That was roughly the position on the outbreak of war. The cessation of building and the reduction in certain of the social services has, of course, aggravated it considerably. The main facts brought to light by war-time experience seem to me to be

Evacuation has shown that an enormous number of people need a great deal of social education to raise them to the lowest minimum standard of decent living. Although this fact was well known to all those working in the slums, it has been brought home in what one might call a striking manner to everyone in England. This is invaluable publicity and may prove to be one of the greatest contributions made by the war to housing.

Also it has been realised that the two problems are inextricably connected. You cannot hope for decent standards until you have decent housing accommodation for the people, but the people themselves cannot attain to those standards if left to themselves in the new houses.

The enormous increase of neighbourliness and local co-operation over A.R.P., fire fighting, etc., is doing a great deal to break down social barriers. Rightly developed this should make for more vital democracy which, combined with proper public control, should simplify some of the more difficult aspects of the problem.

The various experiments in communal living that are becoming increasingly part of our national life may affect profoundly our way of living, e.g. hostels, school meals, nursery centres, communal feeding centres,

Experience in the control, allocation and redistribution of materials is considerable, and if carried over into the postwar period would be capable of helping us to avoid many of the mistakes made last time.

Provision of temporary dwellings on a large scale by the Government for munition workers provides a key to an immediate solution of the post-war shortage without the necessity of blighting our land with the erection of too hastily built permanent dwellings.

Experiments in new materials, particularly plastics, will, if imaginatively used, be invaluable for post-war housing.

The awakening of civic consciousness is very real. All sorts and conditions of people are aware of some of the faults in our social system, and although they may have no idea of how they should be put right or what they can do to help, are perfectly prepared to encourage and sup-port plans put forward by others.

And now to the actual problems and possibilities of post-war housing. They may summarised under several different

heads :-

Publicity.—This should be a much more essential part of housing policy than it has been in the past. Real interest and consultation with the local people will make the new building much more a living part of the locality in which it is built than any amount of planning will do.

Planning.—This must be done by experts and the State must have statutory powers to see that the public authority employs people of a sufficiently high calibre.

Design.—The same thing applies but here it is largely the architects themselves who can help. A movement within the R.I.B.A. to make work with a public authority both popular with, and lucrative for, architects

would do an incalculable amount of good.

Type of dwelling.—The relative merits of flats, houses, terrace houses or any other form of accommodation must be decided by the needs of the locality, the preferences of the people who are to live in them and the area in which they are to be built. They should not be decided by the theoretical declamations of people who are passionately wedded to one particular type of

Materials.-A dislike of the more extreme forms of modern architecture should not be allowed to force us into building acres of drab houses that belong to no kind of New materials and new architecture. methods should be tried out and used if they are right for the purpose, particularly bearing in mind that some of the old materials, e.g. wood, may not be available in good enough quality. The standardization and mass production of such things as sanitary fittings, window frames, tiles, slates, etc., could considerably reduce the cost of building,

Equipment.—The Englishman's house, even if it is his castle, could be considerably better equipped without losing anything in the process. This raises big issues, such as the reduction of the cost of electricity, the possibility of the distribution of hot water over a wide area, etc., which cannot be properly discussed in a lecture of this kind but which are essential to a solution of the problem.

Legislation must be sufficiently elastic to provide for the erection of houses, within the framework of a good plan, for every class by private and public enterprise. The speculative builder must not be allowed to spoil the balance of a good design by building fringes of unsuitable houses on the edges. But it should be noted that, despite errors that the speculative and jerry builder makes he has, by virtue of his trade, a very real knowledge of his customer's requirements and his co-operation should be enlisted and could probably be obtained if the building industry is able to carry through its much needed programme of re-organization.

#### C.P.R.E.

War-time Progress Report, July, 1940-July, 1941, has recently been issued by the C.P.R.E. Dealing with "Service Depart-ments and the Use of Land," the Report

says:—
"It is the practice of the Ministry of Works and Buildings to refer developments

in connection with the siting of Royal Ordnance Factories, and the hostel accom-modation associated with the factories, to the C.P.R.E. for comment. There have been more than a hundred of these cases during the period under review, all of which have been investigated and reported on by the C.P.R.E., sometimes with notable results. One scheme, for example, in a famous potential national park area was abandoned altogether as a result of the Council's representations and important modifications in many others have resulted. It is not, however, possible to refer to these activities in detail as the whole of the correspondence and reports are secret and confidential. The thanks of the Council are due to the planning officers and county branches for their valuable work in this respect.

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There have been many cases where possession has been taken by Service Departments of common lands and open spaces which have been used to provide ites for factories, camps and other purposes in connection with the war. It is essential that when hostilities cease, such land shall be restored for the public use and enjoy-

#### L.C.C.

At last Tuesday's meeting of the L.C.C. t was announced that Mr. Ewart G. Culpen, F.R.I.B.A., had been recommended to the Army Council and Air Council for appointment on the Territorial Army and Air Force Association of the County of London, during the term of office ending October 31, 1944.

#### APPOINTMENT

Mr. T. Forbes MacLennan, F.R.I.B.A., has been elected Moderator of the High Constables and Guard of Honour of Holyroodhouse.

\* WHAT examinations should be taken to become a local authority Building Inspector? - Q 852

\* WHAT is the cure for a damp wall? - Q 853

\* WHAT are the names of manufacturers of blackout shutters for north lights of factory buildings? Q 854

THE ARCHITECTS' JOURNAL

#### INFORMATION

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THE Information Centre answers any question about architecture, building, or the professions and trades within the building industry. It does so free of charge, and its help is available to any member of the industry.

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#### Q 852

ARCHITECT, KENT.—A young foreman carpenter working for me WANTS TO BECOME a local authority BUILDING INSPECTOR. He has good general experience and has been general foreman on a number of smaller jobs. What steps and examinations should he take.

He should take the Institution of Municipal and County Engineers' examination for the Institution's Building Inspector's certificate.

Members, Associate Members and Students of the Institution are automatically granted permission to sit for the examination, but other persons must obtain permission, and should apply to the Secretary for the application form 1 (B.1). Full particulars of the examination can also be obtained on request. The address of the Institution of Municipal and County Engineers is 3, Branstone Road, Kew Gardens, Surrey. Telephone Richmond 1576.

#### Q 853

Surveyors, Notts.—We were recently asked to advise a CURE FOR A DAMP WALL caused by a serious leak at the side of a chimney breast, just below the roof. The wall, when we saw it, was saturated with water. It seemed to us that there must be some defect in the leadwork and the gutter behind the chimney, and the whole of the flashings were renewed to very generous dimensions.

The damp is appearing again and reexamination of the wall seems to show that this is due to the action of the hygroscopic salts which have been deposited on the face of the plaster during the long period of the trouble. The damp patches are extending but we suppose this can be expected in such a case. The wall is papered and behind the paper there are in places deposits of 1/16th of an inch or so in thickness.

We have recommended the entire removal of the paper and thorough washing with warm water to remove the salt. Can you suggest any further treatment to neutralise whatever may remain of the salt?

We quote from a communication we have received from the Clay Products Technical Bureau of Great Britain, Ltd., which we think gives you the information you require:—

(a) ORIGIN: the source of the salts can be any or all of the following:—bricks, mortar, plaster, parging of flue (which gets impregnated with sulphates formed by the action of sulphurous flue gases on flue parging). Wherever the salts originated they have been transported by solution in water leaking into the chimney stack and through the brickwork and plaster, and the evaporation of the water at the inner wall face has left the salts as an efflorescence beneath the wallpaper.

(b) TREATMENT: whatever the origin of the salts may be, the treatment is the same. (1) The prevention of further solution of salts and their water-borne transport to the inner face of the wall:—this, it is assumed, is done, and the leaky chimney repaired. (2) The removal of the existing efflorescence deposit. Under no circumstances must the deposit be wetted or washed off. Directly water is applied the salts will dissolve and be absorbed by the dry plaster and brickwork beneath. (N.B.—If it were not a relatively dry surface, crystallation would not have occurred).

The deposit must be dry brushed off with a stiff scrubbing brush or wire brush and scraping with a metal tool may be necessary on bad spots. This operation will reveal whether or not the plastering itself has been radically affected: if unsound the whole of the plaster should be taken down, and the wall replastered with a plaster hemihydrate (such "Pioneer" plaster): if still sound, only the surface if marred by the scrubbing may need finishing with a floated Pioneer finish. The wall should be re-papered only after the plaster has thoroughly dried out. If gross efflorescence should reappear, then the source of the moisture has not been stopped and the faulty chimney stack and the d.p.c. should be re-examined.

#### Q-854

SURVEYORS, HERTS.—Can you give us some names of manufacturers of [Continued on page xiv.

xiv

Continued from page 440.]

BLACK-OUT SHUTTERS for north lights of factory buildings.

north lights of factory buildings.

The Crittall Manufacturing Co., Ltd., 210, High Holborn, London, W.C.1.
Hawkes & Snow Co., Ltd., Birmingham.
Helliwell & Co., Ltd., Brighouse, Yorks, and 68, Victoria Street, London, S.W.1.
Heywood & Co., Ltd., 39, Victoria Street, London, S.W.1.
Hills Patent Glazing Co., Ltd., Tower House, Trinity Square, London, E.C.3.
Henry Hope & Sons, Ltd., 17, Berner Street, London, W.1.
Mellowes & Co., Ltd., Sheffield.
Paragon Glazing Co., Ltd., 1, Victoria Street, London, S.W.1.
Williams & Williams, Reliance Works, Chester.

Chester.

#### Q 855

ENQUIRER, GLOS.-Please could you give me particulars regarding brickwork in Quetta bond; the information is required for estimating purposes only.

What is the price per rod? Per yard super, I assume, would be pro rata to the price per rod, as also would per ft. super.

Extra over ordinary brickwork in Quetta bond for fair face and flush joint. Would this be more expensive joint. than fair face with a normal bond?

Would the usual brickwork labours be the same for this type of bond, such as plumbing to angles, forming jambs, also what percentage increase would there be for cutting holes and forming holes through walls?

I give below a detail of this bond as for 13½ in. wall and would be grateful for the amount of materials, etc., used. We should expect the cost of reduced brickwork in your district at the present time for this class of work to be between £30 and £35 per rod. The difference between ordinary bond and Quetta bond is problematical. The cost of the fine concrete or mortar infilling is less than brickwork, but there is the extra labour to be considered in working to an unusual bond, and of building around reinforcing rods. Theoretically we would say that there is little difference between the cost of ordinary brick-

higher, as it is an unusual item. The cost per foot super, and per yard super. would be pro rata, thus £34 per rod is equivalent to 2s. 6d. per foot super. or £1 2s. 6d. per yard super.

work and brickwork in Quetta bond,

but some estimators might be inclined

to price the Quetta bond rather

The cost of supplying and fixing reinforcement is, of course, extra to the above

We consider that fair face and the usual labours on brickwork would be the same for Quetta bond as for normal The cost of leaving holes bonds. through walls would also be the same. The cost of cutting holes would undoubtedly be more expensive, as cutting through the concrete is more difficult than cutting through brickwork. In the absence of actual experience it is purely a matter for the estimator's judgment, but 25 per cent. extra over the cost of cutting holes through ordinary brickwork would not be unreasonable.

Assuming that you are using standard brick,  $2\frac{5}{8}$  in. by  $8\frac{3}{4}$  in. by  $4\frac{3}{16}$  in. with  $\frac{3}{8}$  in. horizontal joints, you would require 128 bricks, 11 cu. ft. of mortar for beds and joints, and 11 cu. ft. of mortar or concrete for infilling, exclusive of all waste. The quantities of cement, sand and aggregate would depend upon the mix of mortar and concrete specified.

#### REFERENCEBACK

This section deals with previous questions and answers.]

#### O 805

In answer to this enquiry giving the names of manufacturers of pre-cast unit construction buildings, we included the name of H. G. Dyke, of 14, Langham Place, London, W.1. We have been asked to state that the temporary address is now "Oaklands," Chesham Road, Amersham, Bucks.





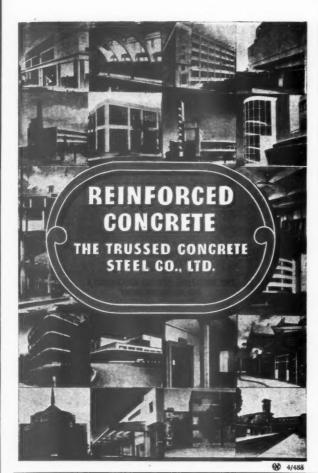
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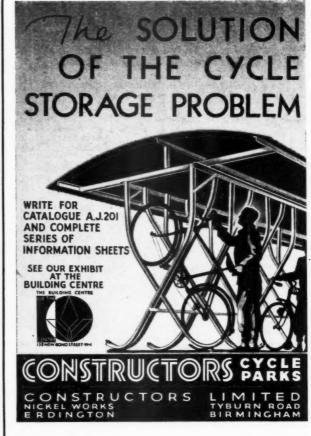
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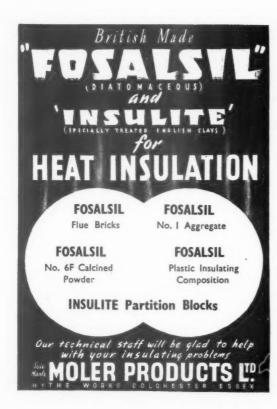
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Advertisements from Architects requiring Assistants or Draughtsmen, and from Assistants and Draughtsmen seeking positions in Architects' offices will be printed in "The Architects' Journal" free of charge until further notice. Other "Appointments Vacant" and "Wanted" will be found with letter hardings and crewithers to the shorters. ments Vacant" and "Wanted" will be found under later headings, and are subject to the charges given under each heading.

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ARCHITECTURAL ASSISTANT required—Liver-pool district. Important priority work.—State particulars of experience and salary required, and when free. Box 383.

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Architectural Appointments wanted
ARCHITECTS' ASSISTANT 23, Belfast born,
military exemption I years. University, Architectural
and Technical Institute training, experience on site and
office, wide business experience and used to responsibility. desires position offering scope and opportunity.
Prefers outdoor position such as responsible position on
site. Can drive car. Reply "Architect," 11 Little
Britain Street, Dublin, Eire.

A.R.I.B.A., wide experience in all types of work specialised in factories and hospitals, requires executive appointment where experience as architect, surveyor and quantity surveying can be fully utilised. Box 361.

DRAUGHTSMAN SEEKS POST, London or Provinces. Experienced Royal Ordinance factories, hostels, A.R.P., working drawings and details. Box 365

**YOUNG MAN,** just 18 years, desires to enter architectural profession London district. Has had 2½ years structural engineering experience as draughtsman and now undergoing training at Arts and Building School. Box 364.

QUALIFIED ARCHITECT, age 27, single, requires responsible position on work of national importance. Experience of factory dispersal work and temporary hutment camps. Prepared to travel. Thoroughly experienced in preparation of plans, specifications, etc. Capable surveyor and leveller. Able to direct and supervise in office or on site. Salary by arrangement, Box 368.

SURVEYOR, qualified (building sub-division), seeks position in Liverpool district. Experience includes surveying and levelling, measurement, drainage, workings and detail drawings, etc. Box No. 367.

QUANTITY SURVEYING, ARCHITECTURAL ASSISTANT (21), wage 47 per week, medical exemption, Student Royal Institute of Fritish Architects, Student Institute of Engineering Technology; 6 years' experience including 4 years' Articles to Architect, 3 years in Quantities (1 year abstracting and billing, 2 years' final measure by Standard Method of permanent buildings), desires progressive and responsible position of National Importance with appreciative employers, preferably within 20 miles radius of Preston, Lancs. Box No. 369.

BUILDING SURVEYOR AND CHARTERED ARCHITECT (33), school-trained, seeks essential work in either capacity, Leeds or Bradford district. Experienced in all branches. (At present in Local Government employment). Salary by arrangement. Box 371.

SURVEYS. Schedules of dilapidations, war damage reinstatement, etc. Qualified senior assistant offers part-time services in London area. Box No. 370.

SENIOR ARCHITECT would be glad of position. All-round experience including quantities and surveys. Box 375.

Classified Advertisements continued on page xviii.

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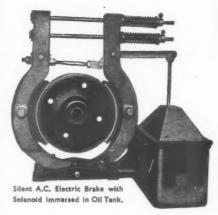
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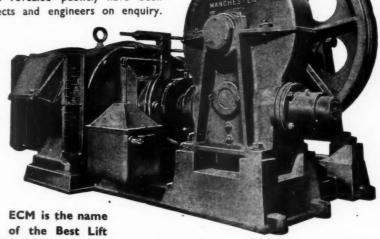
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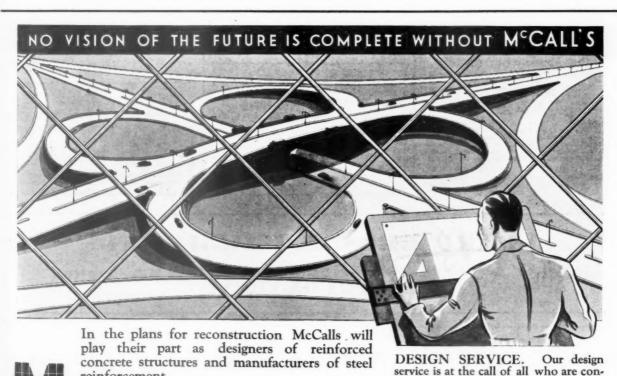
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LADY DRAUGHTSMAN (27), desires post, five years full-time School of Art, five years drawing office experience. All types working drawings and perspectives. Box No. 362.

YOUNG LADY requres position in drawing office; age 19; 23 years' experience; 2 years Technical College training; North West London district preferred tracing, colouring and scale drawings from sketches. Box No. 374.

YOUNG ARCHITECTURAL ASSISTANT desires employment; exempt on medical grounds. Much experience constructional camountage. Models and perspectives. Highest refs. Box 376.

QUANTITY SURVEYING ASSISTANT (194), exempt military service, seeks position with Chartered Surveyor, London or Middlesex area preferred. Two years' training at Regent Street Polytechnic (Day) School of Architecture, one year with firm of chartered architects; student C.S.I. Salary 3 guineas. Free January. Box 377.

**DRAUGHTSMAN**, over military age, requires position. Experienced in Maintenance, repair and War Damage Survey. Used to interior and perspective. Box 378.

YOUNG MAN, 17 years, desires to enter architectural profession, London district. College education, R. Hatton, 70, Rosendale Road, S.E.21.

CLERK OF WORKS (disengaged) extensive experience, expert knowledge all trades. Highest London references. C. Staples, 49, Highview Avenue, Edgware, Middlesex.

ARCHITECT AND SURVEYOR, qualified and registered with over 18 years' experience of domestic and commercial buildings, will undertake preparation of specifications and plans for reinstatement of wardamaged buildings in accordance with the War Damage Commission, or with license. Moderate charges. Box 359.

YOUTH, aged 14, just left school seeks opening in Architect's office. Gordon Lewis, 75, Cavendish Mansions, Holborn, E.C.1. 379

SOUTH OF IRELAND ARCHITECT'S ASSIST-ANT seeks position, 14 years' experience in the preparation of sketch plans, working drawings, details, specifications, surveying and levelling. Salary by arrangement. Box 380.

A.R.I.B.A. over military age, has facilities for working in spare time. Surveys, working drawings for factories, munition works, workshops, industrial buildings, etc., etc. Box 382.

BUILDING AND QUANTITY SURVEYOR (25), unlikely to be called up on medical grounds, requires change of employment, preferably to Birmingham. Good all-round experience in all branches of surveying and architectural work. Box 381.

SENIOR ASSISTANT, qualified A.R.I.B.A., P.A.S.L. urgently requires spare-time work in London. Surveys, working and detail drawings, specifications, war damage schedules and estimates prepared with minimum supervision. Box 384 or Tel. Rodney 4496.

#### Other Appointments Wanted

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