Expert Explains Danger of Shoddy Construction

\$60,000,000 Can Be Saved Annually in This Country Through Use of Good Materials and Workmanship, Authority

THE DANGER OF SHODDY to \$3,000,000,000. The very small-An address by Lyman Clark of General Electric company, before civic develop-ment group of Chamber of Commerce of United States.

States involves the expenditure an- this large saving in mind, is it not nually of an amount probably equal worth while to seriously look ahead

Declares. est economic effect upon this expenditure naturally involves a large sum of money and we may readily afford considerable expense in devising methods for its economic use. As As there can be many interpreta- an example, if our annual outlay tions given to the subject of "Dan-gers of Shoddy Construction," it fected by only such a small amount nomics; "shoddy" refers to waste per cent negative value, we have the due to materials or personnel and possibility of creating a saving ac-"construction" refers to building count of 2 per cent, or \$60,000,000 structures, either commercial, indus- annually which is the interest charge at 6 per cent on a total of 33 1-3 per

Building construction in the United cent of our annual expenditure. With POLITICAL ADVERTISEMENT

There is a cause for shoddy construction where the owner tries to seek a greater earning increment by attempting to build beyond his means. Without sufficient capital requirements, he often places upon the property a building of the dimen-sions and contents he desires by utilizing shoddy construction. In other words, he is forced to build beyond his borrowing ability.

B. Construction—It is questionable whether more shoddy is used by those having to do with the actual construction of buildings than those who are concerned in the ownership of property and buildings. In the construction work, we have to consider the following responsible per-sonnel: (1) Architects and engineers; (2) general and subcontract-ors, and (3) labor.

Must Watch Loans.

1. Loans. 3. Education. 2. Regulations. 4. Co-operation.

1. Loans-While it may be a deli cate question to impose upon him who loans funds for building purposes a further consideration than



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A. Ownership. B. Construction. A. Ownership-There are many causes for shoddy construction that are traceable to the ownership of turn. Our constant thought is to de-velop the property for one purpose variously estimated as being for dy construction. Attempts have We are confronted today in the with ever increasing value or he must consider it in the light of may be best to paraphrase by stat- as 1 per cent for good or for evil. must consider it in the light of ing that "dangers" refers to eco- or 1 per cent positive value and 1 something to be traded in as an article of comparer. Where the owner ticle of commerce. Where the owner has adopted the latter consideration, there springs up within our urban and suburban centers an enormous

by impressing upon the owner the economical considerations of building amount of building construction. way to reduce shoddy construction by placing a premium upon good construction.

prohibit the use of shoddy construc-

Question in Construction.

(1) There is probably no profession upon which is imposed a greater necessity of knowledge than that of architecture. In the architect's relations to shoddy construction we may truthfully state that ignorance is the only possible avenue for its introduction. Sometimes this ignorance is due to a "closed ear" on the archi-tect's part from his inability to re-ceive or lack of appreciation of ad-vice but it is seldom if ever the question of wilful introduction of shoddy construction by him, a condition which does not always pertain to the

II. Reduction of Shoddy Construc-



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cent and the term only one-half its life. Therefore, we may reduce the introduction of shoddy construction

Few Building Codes. Regulations.—We have comparatively few cities with what are pictures distributed by manufacturers

municipally known as building codes and others, and none of these codes absolutely Benefits of Co-Operation. 4. Co-Operation-Probably no bet-

and devise every possible means for the reduction and prevention of shoddy work.

Causes of Shoddy Work.

1. Causes of shoddy construction:

A. Ownership.

B. Construction.

Construction.

A. Ownership.

B. Construction.

Construction.

A. Ownership.

B. Construction.

Constr that principal and interest are re-turned but that the loan had been wisely and judiciously invested. It while there are inspections of one should be the duty of one loaning sort or another for urban and some tural profession, by the engineering property. We look upon property in the character, kind and quality are the which we must seek a financial re- best within economic means. The hibits or reduces to any marked ex-

turn. Our constant thought is to develop the property for one purpose or another, that it may make a return on the invested capital. From the standpoint of building construction the owner is always confronted with the problem of what best can be done with his property from two points of view; he must consider the property in the light of a holding with ever increasing value or he must consider it in the light of and the term only one-half its siderable good work has been done with his property from two property in the light of and the term only one-half its siderable good work has been done with his property from two points of view; he must consider it in the light of and the term only one-half its siderable good work has been done with his property from two points of view; he must consider the property in the light of an holding with ever increasing value or he make the term only one-half its siderable good work has been done with his property from two points of view; he must consider the property in the light of a holding structures has been done with on the building structures has been day construction. Attempts have day construction in the first of the buildings of from 75 to 100 of labor sufficient to necessitate the day construction. Attempts have day construction in the first of the sufficient have determined by c siderable good work has been done it will be clearly and easily seen that along these lines, not only in the the use of good material does not technical press but in popular maga-zines, newspapers and circulars, structures; that those concerned with That considerable more can be done building operations do not examine well, and further, by making it diffiin our schools and educational inthoroughly the market price of comstruction. We may be able in this
The building public should be adtures must be evident. We, for invised as to the economic advantages stance, do not find a marked increase of quality materials. Considerable in the use of copper at a price in the benefit in the building industry mig't accrue also from visual instruction through the use of motion cents; we do not find a marked instruction through the use of motion cents; we do not find a marked instruction through the use of motion cents; we do not find a marked instruction through the use of copper at the price of 26 struction through the use of copper at a price in the use of copper at a price in the neighborhood of 13 1-2 cents over the n creased use of rubber at 13 cents at

over its normal price of 90 cents or during the war at \$3,30. In residential building, we are contion. In the majority of cases they ter means for reduction of shoddy is fronted with a condition where about

Generally, quality may be obtained at an expense of only 2½ per cent of the total cost. Sometimes through the application of knowledge the same is true without any increase in the

Shoddy as meaning "waste" must

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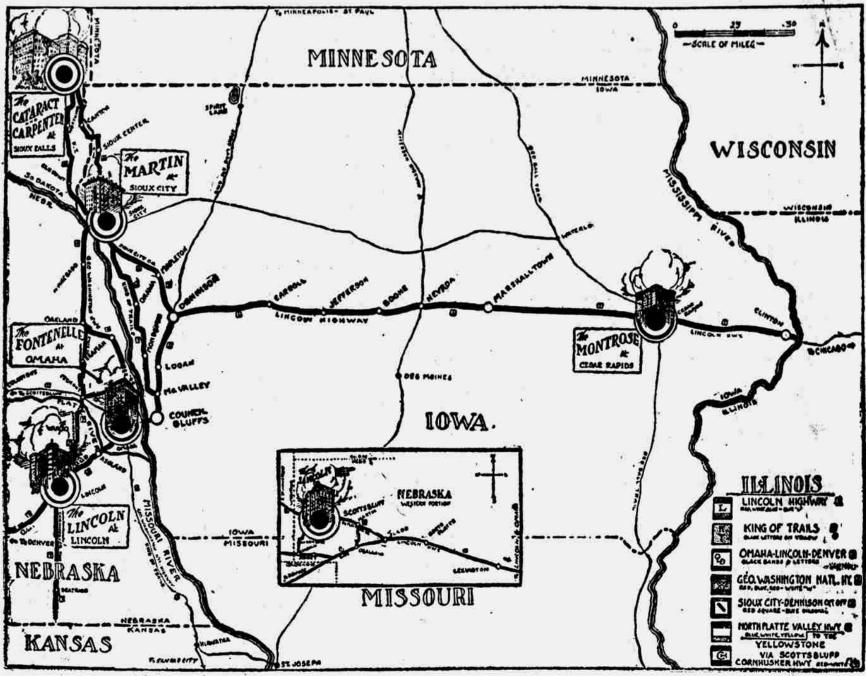
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elimination of shoddy construction.

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