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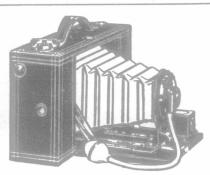
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the bowels will be prompt, that the liver will be awakened, and that the kidneys will join in thoroughly cleansing the system of poisonous impurities. Because of this dependability, Dr. A.

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money, but the safety of the travelling ber piers and abutments.

public is directly dependent upon the For long spans 50 fee

of spans to adopt, to suit the site. cur once in a period of years that very good economy, as the repairs should be provided for, and if this is and renewals on a wooden floor are neglected and the waterways are restricted to accommodate only the ordinary maximum flow corious work ordinary maximum flow, serious washouts, that may result in the total de-struction of the whole bridge, are al- 50 feet reinforced concrete construcmost sure to follow.

struction is quickly passing out of use. properly proportioned and placed in a

ent time is to increase the weight of and best superstructure adapted for these. To what extent this will con- the location, whether this superstructinue it is almost impossible to fore- ture is on an old foundation than to tell, but provisions should be made to at the termination of its usefulness on meet these conditions as well as pos- a more temporary one. It is very sible in designing permanent struc- much easier to put a new superstruc-tures for future use. ture on an old foundation than to The designing of all important build up new foundations under an bridges and the preparing of the ne- old superstructure. This is a miscessary specifications should be placed take that many municipalities are in the hands of a qualified engineer. making in this country, for which They are a matter that involves not there is very little, if any, excuse only the expenditure of large sums of when in erecting steel bridges on tim-

For long spans 50 feet and over, successful working out of the many steel is perhaps the most used madetails connected with them. terial in the building of superstructures, terial in the building of superstructures, A most important matter to consider although it is a common practice in the design of a bridge is the length in many countries to build spans of spans to adopt, to suit the site. 75 feet in length and over of concrete, You can be sure that the action of Sufficient waterway should be pro- this style usually taking the form vided for; the tendency should be to of an arch. The placing of a concrete increase rather than decrease the floor on a steel bridge is also a very area. It is the extreme floods that oc- good practice and may be considered

REINFORCED CONCRETE

tion throughout is certainly to be Timber as a material for bridge con-recommended. This material when

WHITE ROSE WON FOR P. M. BREDT & SONS AT WINNIPEG AND BRANDON This heifer was fourth in the open class and first in the class for breedels who did not win in 1909

except it be to render more secure rounding country. and stable the foundations upon which in this position it should be well se- it is first painted and afterwards kept' cured from the destroying action of painted. Rust is the most destructive the weather.

DURABILITY OF TIMBER the assaults of the weather. It is posed place. therefore very poor economy to use Before painting a bridge the surthis material for foundations to carry face of the steel should be well scraped, therefore very poor economy to use be of very little use.

capable of carrying the most suitable sides of a small member like this.

In wooded sections of the country, well designed structure, may be con-where timber of a suitable nature can sidered to last for all time. The erecbe procured, this material may be tion of such a structure should never used with a certain degree of economy be undertaken by any municipality, in the building of the less important however, without the services of an and smaller structures. However the experienced engineer. It is a work saving in the initial cost of the con-that requires the closest inspection struction of timber bridges is soon lost in all its details. The great advanin the repairs and renewals of the tage of using this material is that when once a bridge is erected with it Masonry and concrete are the two that meets all requirements of traffic materials best adapted for the con- and provides for the flow of water struction of bridge foundations. Tim- underneath it, costly repairs cease and ber, should never be used for this money and energy may safely be dipurpose when the structure is being rected into other channels; besides this erected with a view to permanency, they are an ornamentation to the sur-

The life of a steel bridge is largely to build the masonry or concrete, and dependent upon the manner in which agency on steel highway bridges, and if they could be kept free from this It is a well known fact that timber they would practically last forever. will last for many years if not at all It will be necessary to preserve the times in such a position, while its use- steel as much as possible to paint a fulness lasts for only six or seven bridge at least every four years, and vears at the most when exposed to oftener if it is situated in a much ex-

a superstructure made from a more so as to free it from all rust scales, durable material. Good foundations grease, and dirt; a steel scraper and a are the first requirements for a good stiff wire brush should be used to acsubstantial structure. Without them complish this. Rust left beneath the the very best of superstructures will paint will soon scale off, and the surface of the steel will then be exposed A municipality with limited means to the destroying actions of the air t its disposal for the erection of and moisture. As there are many bridges and unable to at first build a members in a steel truss only a quarcomplete, permanent structure from ter of an inch in thickness it may bottom to top, should start at the bot- easily be understood how the whole tom and build the foundations and structure can be very much weakened substructure substantial, durable and in time by the action of rust on both

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