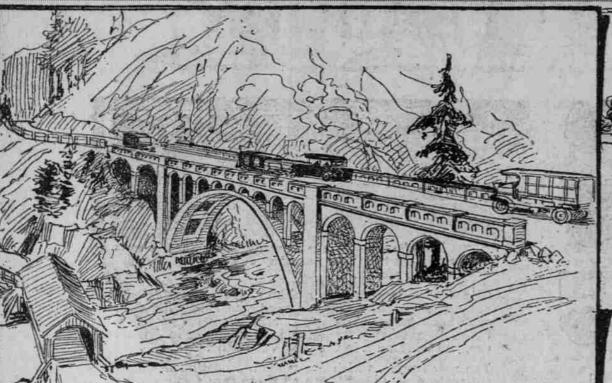
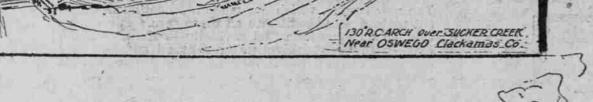


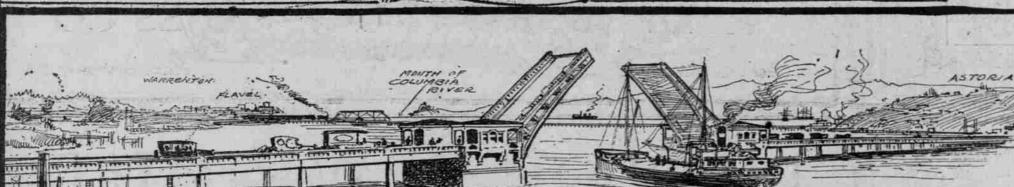
BRIDGES ON OREGON HIGHWAY SYSTEM ARE OF LATEST MODERN DESIGNS

State Has 157 Structures Under Way at Estimated Cost of \$1,715,000-Spans Are Being Built for Permanent Service, Contrasting Old-Time Period When No Fixed Policy Existed-Art and Strength Are Big Features





PROPOSED WILLAMETTE RIVER BRIDGE AL OREGON CITY .. Clackamas county - Orefon



The road of joints yields as maked and stable features that a system which characterized the railway span the substantial and stable features that a system which characterized the railway span the substantial and stable features that a system which characterized the railway span the substantial and stable features that a system which is fast eclipsing in magnitude the railway span transportation system, a system which and accurate structures. The road of coday is a link in a busy function that the necessity for intelligent to provide the state department, none of the substantial and stable features that a system which is fast eclipsing in magnitude the railway span transportation system, a system which are the spin to the taxpane provide sufficient to provide the state department, none of the state eclipsing in magnitude the rail and stable features that a provide sufficient to provide. The fight has been a long one and made more that for the state department, none of the state eclipsing in magnitude the rail magnitude the rail and stable features that the provide sufficient to provide the state department. The road of the state the responsible, who by group the state department is the first cost the state the state the responsible. The road of the old system are provided and made more that the developed the first cost was from the state the responsible. The provide structures were the state department is the first cost the state department. The state department is the state department is the state department is the state department. The state department is the state department is the state department is the state department. The state department is the state department is the state department is the state department is the state department. The state department is the state depart is the state department is the state depa

ROQUE RIVER BRIDGE t Rock Point, Jackson Co

In the state eclipsing in magnitude the rail and water systems of former years.
Bridge structures on such a transportation system to adequadely carry intermediation of nest unscruptions morely irresponsible, who by gross morely interested in the development of highway bridge construction is the state highway to the seed of doubt and discontent interests, whose programme of exploitation of time, the seed of doubt and bridge building, the bound municipal.
Mostly an tagonized by consistent and intelligent progress.
The history for the segan to tell
The history of time, the segan to tell
The history of time, the segan to tell
Bridge structures on such a transportation of a long and hard fought that a message has found an analy in such an amazing number of instances as to constitute a veritable storehouse of ammunition.
The history of time, the segan to tell
The history of time, the segan to tell
The history of the consistent and intelligent progress.
The man with a message has found an analy is several years ago an investigation
The second of t

THE NEW 1920 HAYNES POSSESSES FOUR VITAL FACTORS

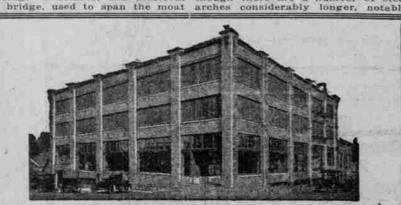


nding the feudal castle wall, the Niagara Clifton bridge, having a state highways today with the time a change having its origin, perhaps, State Highway Com In ancient times, the bascule was span of \$40 feet. EW states have launched a bridge- raised to barricade the castle doorway

building programme greater in scope and magnitude than that now under way by the state highway department of Oregon. Since May 1, 1919, designs have been prepared for 1866 bridge structures, large and small, ture of \$1,715,000. One hundred and fifty-seven of these bridges are now under construction and contracts for the building of the greater portion of those remaining will be let in the very near future.

those remaining will be let in the very near future. Among the larger structures de-signed is a bridge across Young's bay at Astoria. The channel span of this structure is what is known as the "bascule" type, differing from the or-dinary swing span in that each leaf or segment of the movable portion fixed pin, or "trunnion" attached to the pier. The word "bascule" coming from the French, signifies a balance and the modern bascule bridge is fifted with counter weights con-structed in such a manner as to main-tain an exact balance throughout the entire movement of the bridge. Curiously enough, the bascule which is regarded by engineers as among

is regarded by engineers as among the entire structure being somewhat the most modern and up-to-date types less than 1000 feet in length. In the of movable bridge construction, has field of reinforced concrete this strucits prototype in that most ancient of ture will be without precedent al-all bridge structures, the medieval though there are a number of steel draw bridge, used to span the moat arches considerably longer, notably



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honored and highly inefficient con- in the radically changed conception EW states have launched a bridge-building programme greater in and to create an impediment to the construction being erected on our a marked change in the old order. The road of yesterday was popu-

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