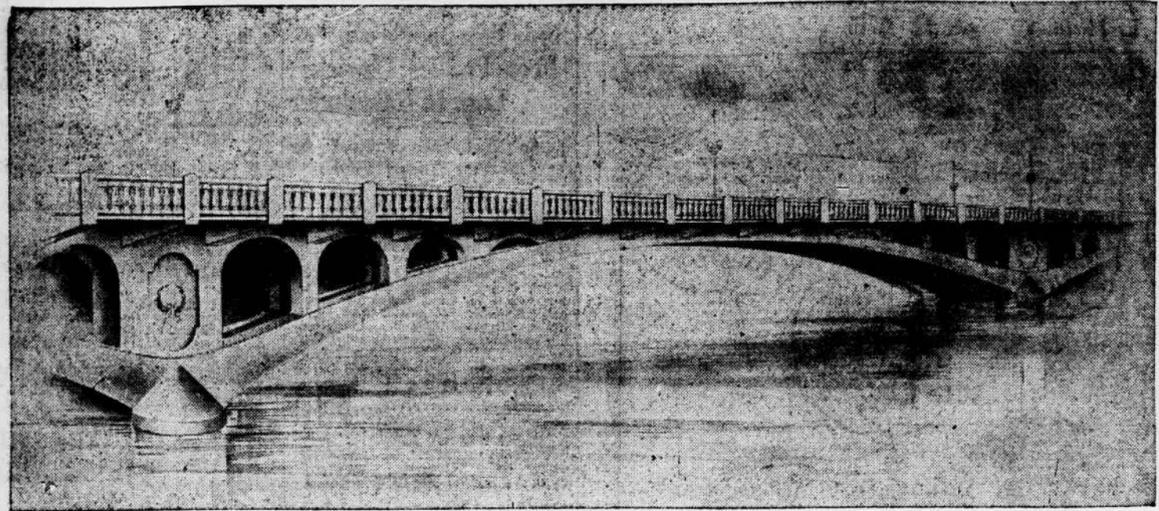


\$457,840 BID WINS BRIDGE CONTRACTS; PORTER BROS. TO START WORK IN 20 DAYS



Ribbed arch design proposed by Shanley & Adams for the Tenth street and First avenue Missouri river bridges, found to be equal in quality to other designs submitted and lower in cost, and for which contracts have been awarded to Porter Brothers of Spokane. Bids submitted for bridges of this type fix the total cost at \$457,840.

Spokane Firm Is Given Ten Days in Which to Sign Up.

Contract for construction of the First avenue and Tenth street Missouri river bridges, both to be of the ribbed arch type as designed by Shanley & Adams of Great Falls has been awarded and will be let within the next 10 days to the firm of Porter Brothers of Spokane, whose bid, the lowest of three submitted, fixes \$457,840 as the cost of the two structures. Actual construction will begin within 20 days. Three designs, two by Shanley & Adams and one by the Luten Engineering Co. of Indianapolis, for the First avenue bridge were considered by the competing contractors, but for the Tenth street bridge only one design was prepared by each of the engineering concerns. The plans of the local engineers proved cheaper for both of the bridges, only one of the contracting firms submitted proposals in which the Luten plans were followed.

Proposals for constructing the bridges were made by Porter Brothers, of Spokane, and the United States Bridge company and Lease and Leigland, both of Great Falls. The bids were on the table in the office of the county commissioners Monday and were opened at 2 in the afternoon in the presence of all board members, Clerk John E. Moran, J. R. Hobbins, manager of the Montana Power company; Engineers Paul Pratt, F. E. Phillips and John Eddy, of the state highway commission, and representatives of the contracting and engineering firms interested. Porter Brothers were found to be the low bidder on both bridges, a fact which only reduced the contract price \$14,100 but made possible construction of the bridges within the designated limit. A provision of the agreement was that a three per cent discount would be granted if both contracts were awarded to the same firm, which brought the actual figures of the low bids down to \$457,840. Porter Brothers' bid for the First avenue bridge was \$242,000 and

Tenth Street Bridge			
Firm—	Luten Design	Shanley & Adams Design.	
Porter Bros.	\$242,000	\$230,000	
U. S. Bridge Co.		247,775	
Lease & Leigland		236,794	

First Avenue Bridge			
Firm—	Luten Design	Shanley & Adams Design A.	Design B
Porter Bros.	\$242,000	\$245,000	
U. S. Bridge Co.	\$248,500	253,000	247,000
Lease & Leigland		251,000	

Difference between Shanley & Adams' designs A and B was in regard to plans for approaches for the First avenue bridge. Style A provided for a girder span and style B detailed an earth approach with retaining walls.

for the Tenth street bridge \$230,000, making the aggregate cost of both spans, without the discount, \$472,000. The bond issue approved by the voters was for \$467,000. With one firm holding both contracts much overhead expense is eliminated, permitting the discount. Twenty-five per cent of the cost of the First avenue bridge will be borne by the Montana Power company which is pursuant to an agreement by which the Power company will use the bridge for street car traffic. Actual construction work will be started within 20 days. Ten days were allowed for signing the contracts and furnishing a bond, and when these formalities are completed with 10 days additional time will be granted for the assembling of crews and material. Both bridges will be built at the same time. The present bridge at Fifteenth street will care for traffic to the north side until the Tenth street bridge is completed, but traffic to the west side will be maintained on the First avenue bridge while work on that structure is in progress. This will be made possible by construction of an overhead deck. The bid of Porter Brothers provides

that the bridges be completed in 230 working days. Working days and holidays excluded, the standard working year is 306 days, which, with perfect weather and water conditions, would permit the work to be completed sometime in September, 1920. Operations, however, are bound to be affected by adverse weather during the winter and spring and probably by high water next summer. With nothing more than a normal amount of time lost from these sources the bridges should be ready for traffic before the winter of 1920. The present low water is favorable for the beginning of construction. There is now only 1,900 second feet of water flowing in the river, according to Mr. Hobbins, which is considerably less than is usually found in midwinter. Mr. Hobbins stated Monday that there is now passing into the river from impounding reservoirs water equal to the total flow at Great Falls. The First avenue and Tenth street bridge contracts will be one of the largest jobs undertaken in the state this year. Coincident with their construction there will be distributed to labor over \$200,000, according to Mr. Shanley's estimate. In addition, much of the ma-

Job Means \$200,000 Will Be Paid in Wages Here in Year.

terial will be purchased locally or through local firms. Mr. Shanley stated that it would not have been surprising had contractors found themselves unable to get within the limit of \$467,000. Lumber for the forms, he said, will cost \$15,000 more now than when the plans were drawn, last May. The cost of labor has also advanced from 50 cents to \$1 per day. That the board received lump bids at all was a most fortunate circumstance, Mr. Adams stated. At different places in the country contractors are flatly refusing to undertake jobs of consequence except on the cost-plus system. Mr. Shanley cited the water works contract now contemplated at Walla Walla to illustrate his point. This job involves an outlay of \$1,000,000, but it was discovered when bids were opened recently that no contractors wanted the work except on a guaranty basis. It was stated by different men interested in the Great Falls bridge contracts that proposals would have been received from numerous eastern firms for the local work had it not been for wage disagreements, actual and anticipated.

Except as they may be considered as the work progresses, Shanley & Adams will have nothing further to do with construction of the bridges, having acted in the capacity of designing engineers only. The structural engineering will be done through the state highway commission and will be conducted under the personal supervision of F. E. Phillips. Street car rails will be laid on the First avenue bridge, while construction is under way. Manager Hobbins, of the power company, does not state whether street car service will be extended to the west side immediately after the bridge is completed, but he does not think that a delay of consequence will occur after it becomes possible to run cars across the river. The company's share of the construction cost of this bridge will be \$90,500, and it is pointed out that with an investment of this size involved the improvement will be put to use as soon as practicable.

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FERGUS WORK AIDS LOCALLY

Leavitt Returns From Lewistown Road Meeting With Report of Accomplishments.

One of the important things which will follow the organization of the Central Montana Good Roads association, which was formed at Lewistown Saturday, will be the development of a main highway from Custer, on the Northern Pacific railroad diagonally across the state through Roundup, Lewistown, Stanford, Belt and uniting with the Y. G. Bee Line at Raynesford, according to Scott Leavitt, president of the Y. G. Bee Line and the Northwest Montana Better Roads association who has just returned from the Fergus county seat where he was invited to assist in the organization of the new central Montana body.

Representatives were present said Mr. Leavitt, from Musselshell, Wheatland, Fergus and Cascade counties. Chouteau, Menger and Garfield, the other counties in the group, were not represented. In speaking of the meeting Mr. Leavitt said: "Tom Stout briefly reviewed some of the benefits which follow the improvement of the highways laying particular emphasis on the fact that Montana is not keeping abreast of the other states in the matter of highway improvements. He urged those present to use their utmost efforts that the roads might be developed to a state of efficiency commensurate with the general progressiveness of the state. "Following Mr. Stout's address was a short talk by R. S. Zahniser, a representative of the state highway commission which was practically a review of the general highway program of the several counties of the state and of the state highway commission. He was followed by Senator B. C. White of Buffalo. "Senator White urged men of affairs to take a greater interest in highway matters. He brought to the attention of those present the great economic and social importance of a comprehensive county and state highway system with Great Falls and in accord with the general plan of road development through all sections of the state. "C. E. Dawson of Roundup, was elected president of this association; H. C. Tiley of Lewistown vice president; and T. L. Stanley of Lewistown secretary-treasurer. W. H. George of Great Falls as a representative of Cascade county was named chairman of the executive committee.

LOCAL ROTARIANS TO VISIT HELENA

About 15 members of the local Rotary club have signified their intention of attending the state picnic for Rotarians to be given by the Helena club next Saturday. They will drive to the capital city. Members of the local club who intend to make the trip are urged to notify Ira Gregory.

LEAVITT TO TALK. Scott Leavitt, state director of the U. S. employment office, will deliver the Labor Day address at Belt.

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HIGH STANDARD SET FOR NURSES

Miss Adda Eldredge, Representing National Organization Urges Educational Work.

None except young women who have graduated from high school should be admitted to the nurses training schools of the country, declared Miss Adda Eldredge of the League for Nursing Education, the American Nurses Association and the American Journal of Nursing in an address Monday evening to the nurses and physicians of Great Falls given in the auditorium of St. Mary's Institute. Her discourse gave her hearers a definite understanding of the tremendous progress made in the past few years by the nursing profession and an idea of what must still be accomplished before education in that line will have reached the plane where she asserted that it belonged. "For this state a nursing educational directory is needed far more than an inspector," said Miss Eldredge. "What Montana needs is some one to raise the present standard rather than look into the flaws."

First Graduate Nurse. The first trained nurse in America, said Miss Eldredge, completed her training in 1873. She was Miss Linda Richards who is still living and resides at Lowell, Mass. Since the time of her graduation nursing education has been developing rapidly said the speaker and at present nursing organization shows a definite relation to the public schools, the medical profession and the general public. Summarizing the development of nursing as a profession, Miss Eldredge stated that the first nurses' association was

formed in 1893. Now all the states in the Union with the exception of Arizona, New Mexico and Nevada have laws for the registration of nurses which are exceedingly valuable in promoting a high standard of training.

In 1907 The Journal of Nursing was formed and in 1909 the organization was affiliated with the Red Cross and was thus able to supply nurses for the war by a system that was effectively organized. Three funds have been established said Miss Eldredge which assist in steps in progress of nursing education. They are the Hampton education, the Hampton Memorial fund, a small loan fund and a relief fund of \$25,000.

Unification of Standards. "A department of nursing and health at Columbia university is a step in education that is noteworthy," said Miss Eldredge. "At the beginning of the war there were courses in nursing in the United States at the University of Cincinnati there are regular courses in nursing which may be elected by undergraduates, whereas in a great many universities the courses are for postgraduates.

"The unification of standards throughout the United States must yet be accomplished. In some states those make take training who have completed the eight grade. In others requirements are as they should be, a high school diploma. It is impossible for a student out of the eight grade to grasp the courses in bacteriology, sociology and chemistry that must be mastered before the student may become a competent nurse.

Too Much Practice. "In the past nursing education has been too much practice and not enough theory. An effort is now being made to equalize the two so the student may have a well balanced course embracing the proper amount of hospital experience with laboratory work and theory. The war brought out these defects. The public is responsible for the progress made in nursing. And if there are class rooms, proper equipment including laboratory apparatus, it is up to the public to take an interest in these matters."

THIS WEEK'S "PAN" SHOW IS A WINNER

Vaudeville Bill at Grand Opera House This Tuesday Evening Makes Hit in Manitoba.

One of the brightest and best equipped musical shows that has been seen at the Pantheas in some time is, "Oh Billy," the Manitoba Free Press declares in referring to the vaudeville bill which appears at the Grand this (Tuesday) and Wednesday evenings. Continuing the Canadian paper discusses the bill as follows: "There are young, fresh voices in the chorus and the soloists are of a higher quality than one usually finds on a vaudeville bill. Harry Butler, Jr., is a worthy son of his clever father, and with Earle Mountain the show has a team of clever comedians. The costumes the lingerie and the settings are high class.

"Joe Roberts had the honor of stopping the show. He makes music pour out of the banjo, and his opening classical number was a gem. Encore after encore was demanded and cheerfully given. The orchestral accompaniment was splendid in its conception. "There were a number of unique novelties produced during the night but none better than Stagpool and Spier. Seldom has anything neater been seen in the city and repertue was bright and fresh. "Hall and Shamero in "Undies of nonsense," are neat in their work, and made the audience get to their tip toes by the daring ridiculous antics one of the members went through. "The Mozarts introduced the "Snow-shoe Dance." It was gracefully done, which one may not believe, but if it is seen it will surprise you. It is a sure fire novelty. "What Really Happened," by David S. Hall & Co. Three scenes were included depicting in its various phases the reception a man receives when arriving home at 2 a. m., after a night with the "boys." It is artistic, inoffensive and humorous."

Hoover Creek Blaze Breaks Through Line

A. C. Adams, deputy supervisor of the Jefferson National forest, stated Monday that the forestry department was still having some little difficulty in controlling the fire burning on Hoover creek. The heavy wind of Sunday night swept the flames beyond control, burning about three-quarters of a mile beyond the fire line in southeasterly direction. The fire was still burning late Monday afternoon but the fire-fighters and forest rangers had almost succeeded in re-establishing the broken fire line. The fire at Barker is well under control and little danger is expected from that fire from now on.

PEDDLERS FACING IMMEDIATE ARREST

Venders Who Do Not Secure Licenses Will Be Prosecuted, Says County Treasurer.

Itinerant peddlers who have not secured a license from the city will be immediately prosecuted, it was stated Monday by County Treasurer F. C. Andretta. A number of men who make a business of selling wares from house to house have not applied for the necessary permit, the treasurer said, and steps to collect amounts due will be taken without further delay. "There are now operating in the city five foot peddlers who are paying \$5 per quarter for the privilege of maintaining this class of business, and the same number of vendors who use conveyances have also \$100 per quarter. Growers of produce who sell commodities direct to consumers are not required to obtain a license. Treasurer Andretta finds that at present 122 dealers in Cascade county are now paying an annual fee of \$25 for the privilege of selling cigarettes. Thirty-eight of these are in towns outside of Great Falls, while 84 are in the city.

CHOTEAU CLUB TO SEND DELEGATES

The Choteau commercial club will be represented at the irrigation meeting to be held in Great Falls at the Hotel Rainbow Wednesday afternoon by Senator F. O. Larson, Mayor J. C. Morgan and Phil I. Cole. While a business visitor in Great Falls Monday, Mr. Cole declared the Teton county seat is intensely interested in the meeting and hopes to see some definite action taken toward irrigation development in this state.

The Switchmen's Union of North America has chartered locals in Auburn, Wash., Toledo, Ohio, and Meadville, Pa.

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