

# PLAN

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## DEHNER BRIDGE

over Big Walnut Creek on the line between Jefferson and  
Mifflin Townships, Franklin Co. Ohio.

The bridge will be a single span through truss bridge with parallel straight chords and inclined and  
 For determining in the truss a live load of 80 lbs per sq. ft. of roadway shall be used. For the floor system  
 a live load of 50 lbs per sq. ft. of roadway shall be used. For the top lateral bracing, a wind pressure of 150 lbs per  
 lineal ft shall be used. For the bottom lateral bracing a wind pressure of 300 lbs per lineal ft shall be used.  
 150 lbs. to be treated as the moving load, the dead load shall be the weight of the structure, and will be considered  
 as concentrated at the panel points of the bottom chord. Each bid must be accompanied by a strain sheet,  
 a set of specifications and enough drawings to show the general methods of construction of details.  
 The strain sheet should give all data used in determining the strains. The strains in all parts  
 and the material intended to resist the given strains. The specifications should be full, explicit, in  
 the general description, the loads, the unit strains, and the method of proportioning the parts. The details of  
 construction, the quality of materials, and the tests to be made of the bridge and materials, and  
 all other points that should be mentioned. It is desired that iron should be used, in the com-  
 pression members, but iron or steel may be used in the other parts. The unit strains  
 should be used instead of the factors of safety. Cooper's specifications (or others as good)  
 are recommended, but not rigidly required.

John J. Runn  
 County Engineer  
 per R. J. Robinson, Jr. Asst

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