1. ALTERNATE PRESTRESSED BEAM SECTIONS (Revised 6-6-12)

Description

General. The contractor may elect to use an alternate prestressed beam shape if the resulting change in superstructure depth is less than or equal to the maximum allowed increase shown in the table below.

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| --- | --- |
| Bridge at Station | Maximum Allowed Increase in Superstructure Depth |
| \_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_ |

Submittals.

Provide two sets of designs that meet the AASHTO and Montana Specifications shown on the Plans, to the Project Manager for review and approval. Show calculations for the beams, slab and reinforcing steel. Provide design information as required to either validate or alter the substructure as shown.

* + - 1. Provide five sets of shop drawings to the Project Manager meeting the requirements of Section 553 of the Standard Specifications. Shop drawings may be submitted on 11” x 17” sheets and may be furnished in Adobe Acrobat Reader (.pdf) format in lieu of hard copies. Have a professional engineer licensed in Montana sign, stamp or seal these plans and designs. Do not fabricate beams prior to receiving approved drawings.
      2. Provide a revised set of design drawings showing all changes to the bridge. Prepare the drawings using a CAD system. Submit the drawings in Adobe Acrobat Reader (.pdf) format. Include a cover letter signed by the supervising engineer transmitting the finished drawings. In addition, provide the CAD files used to detail the revisions. Upon request, the original design drawings will be made available.

Measurement and Payment. The beam and slab shown on the plans will be the configuration measured or calculated for payment. Furnish and install at no cost to the state any additional beam footage, slab concrete or slab reinforcing steel, or substructure concrete or reinforcing steel required because of the use of alternate beam shapes.