

Chapter 4 - Bridge Questions



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Bridge Questions

Route 51 over Steele Creek

ExPr

Bridge Superstructure Questions

1. In feet, how wide is the bridge superstructure, as measured from the outside face of parapet to outside face of parapet?
2. In feet, what is the distance between the abutments as measured to the center line of bearing to center line of bearing?
3. In inches, how thick of a concrete slab must be poured on the steel girders, in inches?
4. In inches, what is the typical spacing between steel girders?
5. In feet, what are the plan dimensions (length and width) of each concrete approach slab?

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6. In cubic yards, what is the approximate concrete volume of one “approach slab?”
7. In cubic yards, what is the approximate concrete volume of the main concrete slab cast integral with the girders?
8. In linear feet, what is the total length of steel required for all the steel plate girders in the superstructure?
9. What utility structure is in the middle of the Route 51 road near Station 27+00?
10. In feet, how far away does the storm water drainage structure near Station 26+90 discharge water downstream from the end of the “end abutment”?