

BOX CULVERT DESIGN SUMMARY SHEET  
15.00 ft Span x 9.00 ft Rise

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I N S T A L L A T I O N   D A T A  
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Height of Fill Over Culvert, ft	11.00
Soil Unit Weight, pcf	140.
Minimum Lateral Soil Pressure Coefficient	0.250
Maximum Lateral Soil Pressure Coefficient	0.500
Soil-Structure Interaction Factor	1.132
Installation Type	Embankment/Compacted

L O A D I N G   D A T A  
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Design Specification	AASHTO Standard
Dead Load Factor - Moment and Shear	1.30
Dead Load Factor - Thrust	1.00
Live Load Factor - Moment and Shear	2.17
Live Load Factor - Thrust	1.00
Dead Load Modifier - Moment and Shear	1.00
Dead Load Modifier - Thrust	1.00
Live Load Modifier - Moment and Shear	1.00
Live Load Modifier - Thrust	1.00
Strength Reduction Factor-Flexure	0.90
Strength Reduction Factor-Diagonal Tension	0.85
Live Load	
Live Load Type	AASHTO HS-Series
Live Load Magnitude, US tons	25.
Tire Footprint Length, in.	1.0
Tire Footprint Width, in.	1.0
Live Load Distribution Factor	1.75
Direction of travel	Parallel to span
Impact Factor	1.00
Lane Load, psf	0.0

M A T E R I A L   P R O P E R T I E S  
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Minimum Specified Reinforcing Yield Strength, ksi	60.0
Concrete - Specified Compressive Strength, ksi	5.0

G E O M E T R Y  
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Top Slab Thickness, in.	12.0
Side Wall Thickness, in.	10.0
Bottom Slab Thickness, in.	12.0
Top Horizontal Haunch Dimension, in.	8.0
Bottom Horizontal Haunch Dimension, in.	8.0
Top Vertical Haunch Dimension, in.	8.0