Portable Timber Bridge for Truck Traffic

Simplified Longitudinal Glued-Laminated Timber Bridge for portable bridge applications

Bridge Design Specifications

Bridge Application:
Used by truck traffic in logging operations or other temporary bridge applications

Design Vehicle:
AASHTO HS20 truck

Design Deflection Limitation: none

Curb / Rail Requirements: curb designed for delineation

Supplemental Wearing Surface: none

Bridge Material: glued-laminated timbers, southern pine Combination 48, creosote preservative treatment

Bridge Length: 35 ft – 0 in. Bridge Width: 12 ft – 0 in.

Bridge Module Width: 5 ft – 0 in. Bridge Module Depth: 10.5 in.

Installation Equipment: Excavators, loaders, crawler tractors or similar construction or forestry equipment

Installation Time: Less than two hours

Installation Procedures: Excavators can pick up the modules using lifting rings on the sides of the modules. The modules can then be carried to the stream crossing and placed side by side on the stream banks. Crawler tractors can also winch the modules into place. The modules are typically placed on spread footings to prevent settling into the soil. For most installations, cables should be used to secure the bridge modules to nearby trees or deadmen.


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