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of water, and 2) the culvert is empty. Design Vehicular Live Load (LL) The approximate strip method is used for design with the 1 foot wide design strip oriented parallel to the span. The design live loads applied to the top slabs of box culverts include the HL-93 truck and tandem loads for box culverts of any span length.

### **SEPTEMBER 2013 LRFD BRIDGE DESIGN 12-1**

The Eurocodes may not even cover design with certain materials. Plain round bars, for example, are not covered by Eurocode 2 because of their poor and unpredictable bond characteristics. An additional factor is that the Eurocodes do not directly deal with reduction in strength due to deterioration arising from unexpected

### **Recommendations for assessment 52 Eurocodes for bridges**

Bridge Design to Eurocodes Worked examples Worked examples presented at the Workshop "Bridge Design to Eurocodes", Vienna, 4-6 October 2010 Support to the implementation, harmonization and further development of the Eurocodes Y. Bouassida, E. Bouchon, P. Crespo, P. Croce, L. Davaine, S. Denton, M. Feldmann, R. Frank,

### **Bridge Design to Eurocodes Worked examples**

Box culvert design for stormwater conveyance Project data: Flow rate,  $Q = 1000 \text{ ft}^3/\text{sec}$  Length,  $L = 800 \text{ feet}$  Initial slope,  $S_o = 0.5\%$  Allowable Head Water,  $HW = 15 \text{ feet}$  Manning's,  $n = 0.012$  DESIGN " EXAMPLE "€

### **PRECAST CONCRETE BOX CULVERTS**

Evaluation of Precast Box Culvert Systems Design Live Loads on Box Culverts 8. Performing Organization Report No. 7. Author(s) D. G. Bloomquist and A.J. Gutz 4910 4504 857 12 9. Performing Organization Name and Address 10. Work Unit No. (TRAIS) 11. Contract or Grant No. BC354 RPWO #47 " Part 2 University of Florida Department of Civil Engineering

### **DESIGN LIVE LOADS ON BOX CULVERTS**

Box Culvert - A culvert in the shape of an enclosed rectangle and consisting of a bottom slab, two wall elements and a top slab. Culvert Extension - A portion of a culvert built beyond the limits of a previously existing culvert. Designer - Individual(s) designated by the Structural Engineer to use this manual to design and detail culverts.

### **CONCRETE CULVERT DESIGN AND DETAILING MANUAL**

The EN Eurocodes are a set of European standards which provide common rules for the design of construction works, to check their strength and stability against live extreme loads such as fire and s

### **EUROCODE 2: BACKGROUND & APPLICATIONS DESIGN OF CONCRETE**

reinforced concrete box culvert. Either service load or load factor design method may be selected. Each of the barrels may have any clear span from a minimum of two feet and a clear height from two feet to fourteen

feet. All barrels in one culvert are assumed to be identical in size and shape.

### **REINFORCED CONCRETE BOX CULVERT AND WINGWALL DESIGN AND**

Simplified Design to BS 5400 Bridge Design to the Eurocodes Simplified rules for use in student projects ... by Corus (now Tata Steel), which is also available in pdf format on the Tata Steel and SCI web sites) and is particularly appropriate for use in undergraduate design projects in ... Worked Examples (P357) For a full background to the ...

### **Bridge Design to the Eurocodes Simplified rules for use in**

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Reinforced Concrete Design to Eurocode 2 and BS8110 ... pf20.ndf Box culvert. ... gr01.bmk Bridge deck example, C&CA 1972. EFFECTS OF TRAFFIC LOADS ON REINFORCED CONCRETE RAILROAD CULVERTS

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