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Culvert design excel spreadsheet

By Erica Sweeney Using Microsoft Excel to keep track of invoices is a great way to stay organized. You can make spreadsheet, setting one up in Excel is fast and easy. You will simply need to create and format a few columns and enter your data. And of course, don't forget to save the file. The same process can be used to set up an invoice spreadsheet in either Excel 2003 or Excel 2007. Open Microsoft Excel. A blank spreadsheet will open, and you will notice that predetermined rows and columns are already set up. Enter a title at the top of the spreadsheet. Start typing your title into cell A1. Having a clear and specific title for the spreadsheet will help you remember what invoices are on a particular spreadsheet. Perhaps you need separate spreadsheet. the bold tool on the top toolbar. Set up column headings in clumn headings in column head spreadsheet. Bold and center the column headings. Click on the number to the left of the row where the column headings. Enter data into the spreadsheet. Be sure to plug everything into the appropriate column. If you are missing a piece of information, simply leave the cell blank. Format cells, highlight all of the numbers in the column look the same types of numbers in the might-click on the highlighted cells and select "Format Cells." In the box that opens up, click on the "Number" tab. Click "Currency" in the "Category" box to format all cells that contain amounts in the same way. Then choose how many decimal places you want to include and click "OK." You can also format dates, ZIP codes, phone numbers and other data. Select these options from the "Category" box--if you don't see something listed there, it is most likely listed under "Special." Add totals to the spreadsheet. To do this, click in the cell where you want the total to be included in the tot dashed box. Press the "Enter" key and the total will be inserted. DOCUMENT NO: JI-187A-SA3-20-ECV-CAL-005 Revision No.: A DESIGN CALCULATIONS FOR CULVERT 6.0 DESIGN OF PRECAST TOP COVER Design Data Top of road = TOR = 2.45 m Invert level of culvert = IL = 0.75 m Clear span = L = 6000 mm Thickness of wall = Tw = 400 mm Thickness of base slab = Tbs = 500 mm Effective span of top cover slab = Le = 6400 mm Thickness of top cover slab = Tts = 500 mm Characteristic strength of seel = fy = 360 N/mm2 Depth of soil inside culvert = D = 0.00 m Clear cover = cmin = 25 Coefficient of active lateral earth pressure Ka = 0.42 Coefficient of earth pressure at rest Ko = 0.593 Coefficient of passive lateral earth pressure Kp = 2.37 = 24 kN/m3 mm Soil Data Density of soil 6790 TOR 2.450 500 1140 PRECAST COVER SLAB TOC 500 400 6000 400 TYPICAL SECTION OF CULVERT 0.750 DOCUMENT NO: JI-187A-SA3-20-ECV-CAL-005 Revision No.: A DESIGN CALCULATIONS FOR CULVERT = Tts = Dia of main reinforcement bar = f1 = Area of single bar = as = Thickness of top cover slab = Load width + 2.4 x (1 - x/l) mm CL 3.5.2.2, BS 8110-1 wherex = distance from the nearer support to the section under considerd = 3.200 m l = effective span = 6.400 m As per 5.3.2.14, Specification for Civil design Wheel load N = 224 kN This point load is distributed over the tyre contact area 250 mm x 500 mm where, length of contact area width of contact area Hence effective width = = a = 250.00 mm = b = 500.00 mm = 4.34 0.5 + 2.4 (3.2) (1 - 3.2 / 6.4) m when wheel is at edge of the panel = 0.5 / 2 + 4.34 / 2 = m C.L. 3.5.2.2, BS 8110-1 Precast cover slab Vehicle movement Wheel 2.17 b a PART PLAN OF PRECAST COVER Width of Precast panel considered for design = Length of precast panel W = 6790 = 1480 mm For moment mm Load Calculation a) Dead Load Self weight of slab = 1.48 (0.5) 24 = 17.76 kN/m Total dead load = 6.4 (17.76) = 113.67 kN b) Vehicle Load (Live load Total Live load = 224 = kN = 224.00 kN Moment when wheel load is at center = 224(6.4)/4 = 358.40 kN.m Moment due to Dead Load = $17.76(6.4)^2/8 = 90.94$ kN.m = 763.9 kN.m Total Factored moment Shear = [(113.67/2) + (224)] = 280.84 kN = 421.26 kN DOCUMENT NO : [1.187A-SA3-20-ECV-CAL-005] Revision No. : A DESIGN CALCULATIONS FOR CULVERT CALCULATION OF REINFORCEMENT STEEL Width of Precast panel considerd for design K = = z = 1480 mm M / b d2 fcu (763.878 x 1000000) / (1480 x 450.5^2 x 30) 571.90 mm mm (d-Z) = 66.89 mm 0.45 Tension steel required Asc = Nos of bar required Asc = Nos of bar required Min Ast = 393 mm2 Min Asc = 393 mm2 nos 0 mm2 2 nos Number of tension reinf. provided = Total reinforcement provided = Area of tension reinf. provided = 4 nos. 804 mm2 1608 mm2 16 dia dia DOCUMENT NO: 1820-SA3- 00-ECV-CAL-017 Revision No.: B DESIGN CALCULATIONS FOR CULVERT Design for Shear & Torsion: Diameter of link or stirrup bar = y1 = 560 mm x1 = 375 mm hmax = 650 mm x1 = 375 mm hmax = 37 8 (fcu)^2 or 5 N/mm2 (Ref.1,CL.3.4.5.2) ptt provided = 0.287 T W (Reinforcements are Indicative Only) % Permissible shear stress,vc= 0.400 N/mm2 vc' = Vh/M = 0.000 K' Compression reinforcement required { Z = d 0 . 5 + $\sqrt{(0.25 - \text{K 0.9 Hence Z} = \text{X} =)}$ } = 324.15 (d – Z) = 0 . 45 206.33 Tension steel required Ast = 5 Compression steel required Asc = Min Ast = 60 mm2 Min Asc = 0 mm2 2 nos 5 Area of tension reinf. provided = nos. 16 dia 1005 mm2 Number of compression reinf. provided = nos. 16 dia 1005 mm2 Number of Tension reinf. provided = nos. 16 dia 1005 mm2 Number of tension reinf. CHECK FOR SHEAR 396.15 mm 952 mm2 Nos of bar required = Nos of bar required mm A culvert is a structure that allows water to flow under a road, railroad, trail, or similar obstruction. Typically embedded so as to be surrounded by soil, a culvert may be made from a pipe, reinforced concrete or other material. A structure that carries water above land is known as an aqueduct. 'Box culverts' includes analyses of all relevant load combinations of load combinations of load combinations buoyancy and sliding checks- analysis of roof, walls and base loading by stiffness matrix- partial factors- design moments- design moments- design shearsClick here to download excel worksheet1. Box culvert design materials 2. Box culvert design moments- design moments design materials 2. Box culvert design moments design moments and base loading by stiffness matrix- partial factors design moments de drawing SNRN 9/25/2020 Admin Bandung Indonesia SNRN Friday, 25 September 2020 A culvert is a structure that allows water to flow under a road, railroad, trail, or similar obstruction. Typically embedded so as to be surrounded by soil, a culvert may be made from a pipe, reinforced concrete or other material. A structure that carries water above land is known as an aqueduct. 'Box culverts' includes analyses of all relevant load cases using a stiffness matrix solution with spring supports and at 'd' from supports and combinations of load combinations of load combinations buoyancy and sliding checksanalysis of roof, walls and base loading by stiffness matrix- partial factors- design moments- design moments- design moments- design moments- design moments- design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design materials 2.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick here to download excel worksheet 1.Box culvert design shearsClick h PM design Excel Sheets concrete box culverts are available with spans varying from 4 to 14 feet. Standard precast concrete box culverts are typically fabricated in 6 foot sections; however larger boxes are fabricated in 4 foot sections to reduce section weight. The designs utilize concrete strengths between 5 and 6 ksi and are suitable for fill heights ranging from less than 2 feet to a maximum of 25 feet. Box culverts outside of the standard size ranges must be custom designed. Each culvert size has three or four classes. Each class has specified wall and slab thicknesses, reinforcement areas, concrete strength, and fill. LINK Related Resources: excel calculators Excel Downloads Requires Microsoft Excel or Apache Open Office. Check file for version requirements. (Annual Premium Membership Required for Downloads Engineering Excel Spreadsheet Downloads This excel spreadsheet Culvert Design Calculates capacity of circular culverts based on culvert material, inlet type, diameter, and length. Analysis is also based on water and culvert devation. Includes a Help tab. . 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