

Technical drawing of a bridge cross-section showing the arrangement of cables and structural components. The drawing includes dimensions and labels:

- Dimensions:**
 - Top and bottom horizontal dimensions: 40, 50, 50, 40.
 - Vertical dimensions on the right: 1.75, 3.50, 1.75.
 - Horizontal dimensions on the left: $L/2$, $L/2$.
 - Overall horizontal dimension: $L =$ (indicated by a bracket).
 - Overall vertical dimension: $B =$ (indicated by a bracket).
- Labels and Features:**
 - Centre line of the bridge:** A horizontal dashed line passing through the center.
 - Hook for cable erection:** A circular callout labeled "48-19" pointing to a hook on the right side.
 - Section A-A:** Indicated by arrows at the bottom left and top right.
 - Section B-B:** A circular callout labeled "B" pointing to a detail on the right side.
- Structural Details:**
 - The bridge deck is shown with a textured pattern.
 - Cables are shown as multiple lines connecting the deck to the central structure.
 - The central structure consists of vertical supports and horizontal beams.

$B =$ m.	$L =$ m.	<table border="1"> <tr> <th rowspan="2">Vo Quantity (m³)</th> <th colspan="2">Cement</th> </tr> <tr> <th>Bags/m³</th> <th>No. of bags</th> </tr> </table>	Vo Quantity (m ³)	Cement		Bags/m ³	No. of bags
Vo Quantity (m ³)	Cement						
	Bags/m ³	No. of bags					
$H_1 =$ m.	$H_2 =$ m.						
Cement plaster 1:4 , 2 cm thick $V_o = 0.02 L (B - 0.50)$		9.12					
Rubble masonry 1:4 $V_o = (L - 0.80) (0.4H_1 + 0.4H_2 + 0.372)$ $+ (H_1 + H_2 + 0.96) 0.4B - 0.562$		2.28					
Plumb concrete 1:3:6 + 40 % boulders $V_o = (L - 0.80) \left[(H_1 + H_2 + 0.96) \frac{B}{2} - 0.4H_1 - 0.4H_2 - 1.0745 \right]$		2.64					
TOTAL VOLUME :- $V_{total} = L \left[(H_1 + H_2 + 1.00) \frac{B}{2} - 0.7125 \right]$							
		No of cement bags					

Formwork	Fo Quantity (m2)
$F_o = (1.00 + \Delta h) (L - 0.80)$	

	Minimum	Maximum
B	4.90	5.50
L	5.90	7.90
H ₁	3.30	5.50
H ₂	1.50	4.50

Cable Ø mm	Bulldog grips for one cable	Gap "G" mm
32	6	190
36	7	210
40	8	240

Drawing No. 48B/1