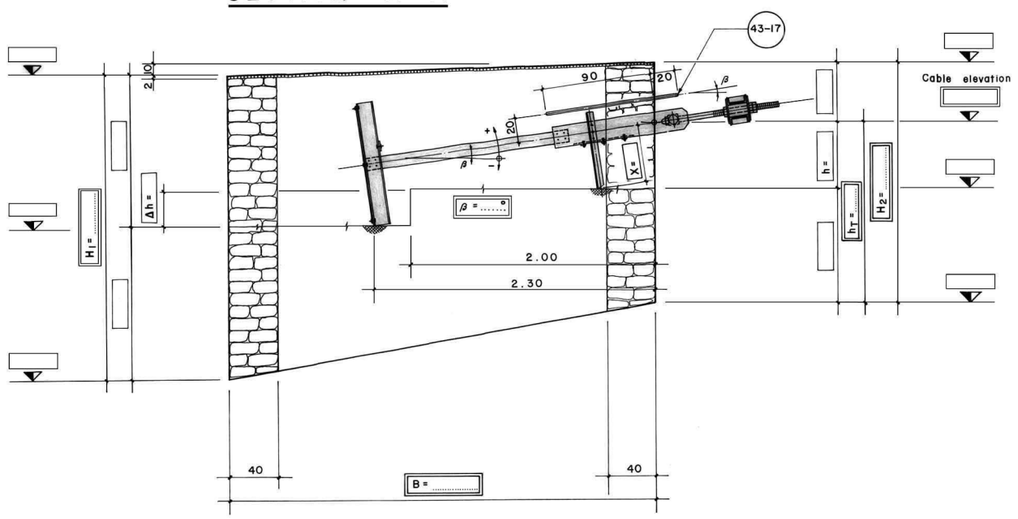
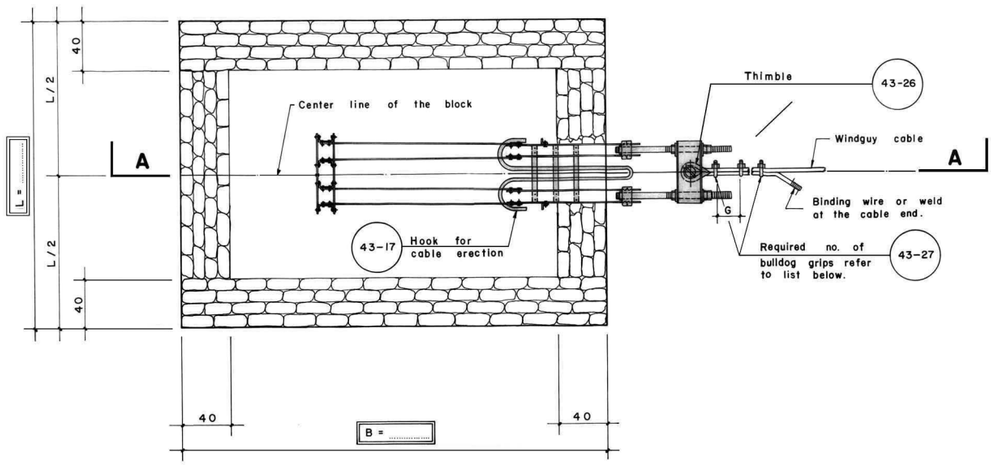
Standard Anchorage Length

SECTION A-A



PLAN



Standard Quantities :

B = ... m. L = ... m.
H_1 = ... m. H_2 = ... m.

	Vo Quantity (m^3)	Cement Bags/m^3	Cement No of bags
Cement plaster 1:4, 2 cm thick Vo = 0.02 x B x L	.....	9.12	.....
Rubble masonry 1:4 Vo = 0.4B (H_1 + H_2 - 0.04) + (0.4 H_1 + 0.4 H_2 - 0.016)(L - 0.80)	.....	2.28	.....
Plumb concrete 1:3:6 + 40 % boulders Vo = $\frac{1}{2}$ (L - 0.80)(B - 0.80)(H_1 + H_2 - 0.04)	.....	2.64	.....
TOTAL VOLUME :- V_{total} = $\frac{BL}{2}$ (H_1 + H_2)	.....		
No. of cement bags			.....

Formwork	Fo Quantity (m^2)
Fo = Δh x (L - 0.80)	.....

Limits for Dimensions:

		Standard Minimum	Standard Maximum	Extended Minimum	Extended Maximum
B		2.90	3.50	3.60	4.30
L		1.80	4.00	1.80	4.00
h_T	-3° ≤ β ≤ 0°	0.70	2.50	0.70	3.00
	1° ≤ β ≤ 6°	0.95		1.00	
	7° ≤ β ≤ 12°	1.20		1.35	
H_1, H_2	-3° ≤ β ≤ 0°	h_T + 0.80	Open	h_T + 0.90	Open
	1° ≤ β ≤ 6°	h_T + 0.70		h_T + 0.65	
	7° ≤ β ≤ 12°	h_T + 0.40		h_T + 0.40	

Cable ø mm	Bulldog grips for one cable	Gap "G" mm
36	7	210
40	8	240

Determination of X, Δh and h:

β = (°)	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12
X (cm)	20	20	20	20	25	25	30	30	35	40	45	45	50	50	55	60
Δh (cm)	20	24	27	30	28	31	30	33	31	29	28	31	29	32	31	29
h (cm)	18	18	19	20	26	27	32	33	39	45	51	52	58	59	65	71

For intermediate values of β select the data for the next bigger value.

INDEX:

- Cement plaster 1:4, 2 cm thick
- Rubble masonry 1:4
- Plumb concrete 1:3:6 + 40 % boulders
- Make proper supports on correct level with cement mortar 1:4
- Data to be taken from General Arrangement
- 43-27 — Part number / Working drawing number

MoLD / DoLIDAR / Trail Bridge Section
Long Span Trail Bridge Standard

Bridge No: Name:

Span:

Structural Drawing:

Windguy Cable Foundation

On Soil

1 Cable ø ..... mm (36/40 mm)

Standard length: ☐
Extended length: ☐

Date: August 2004 **Drawing No.43/1**

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