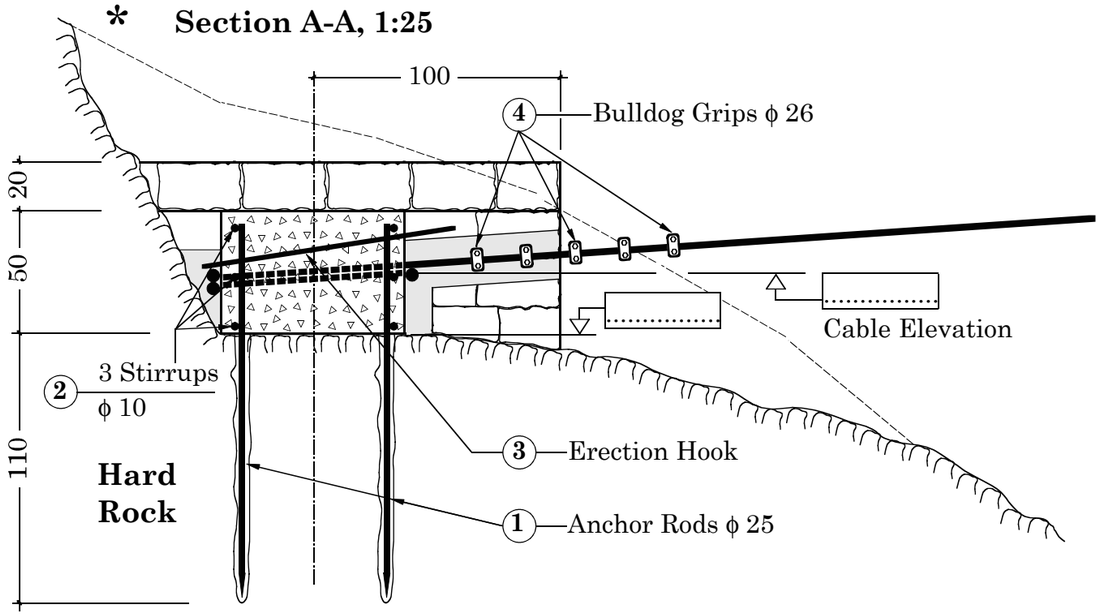
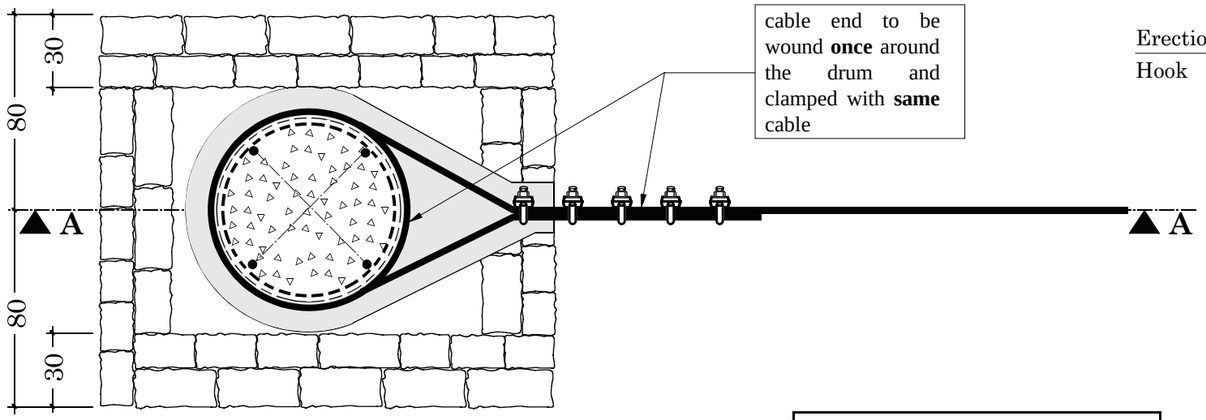
Drum Rock Anchor for Windguy Cable

* **Section A-A, 1:25**



Plan, 1:25

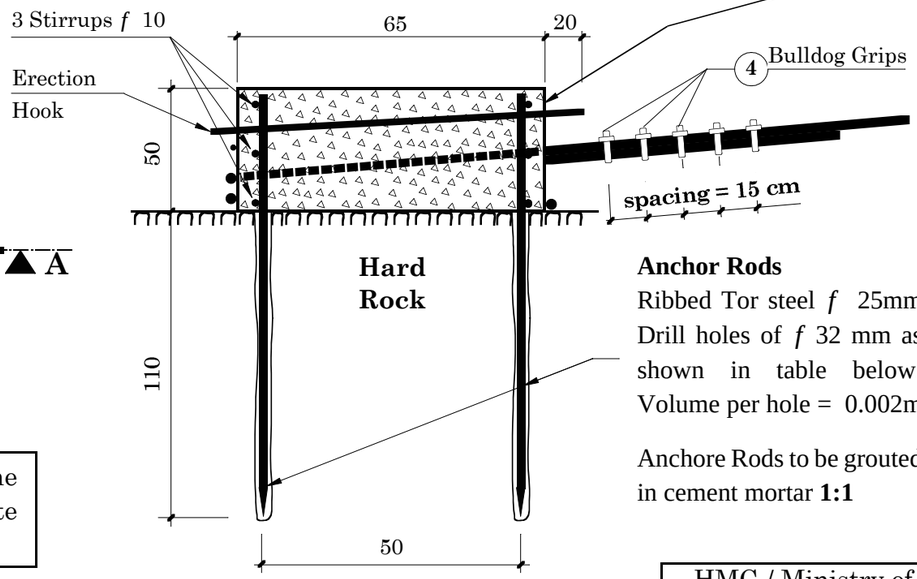


*Construct dry stone retaining wall as per site condition

Part No	Section [mm]	Quantity [nos]	Working Drawing	Weight Kg/pc	Weight total Kg
1	**Ri-Bar *f* 25 l = 1500**	**4**	1500 Anchor Rod	**5.78**	**23.12R**
2	**Ri - Bar *f* 10 l = 2270**	**3**	350, ri =30, dia =530 Stirrup for Cable Drum	**1.40**	**4.20R**
3	**Plain Rod *f* 20 l = 3200**	**1**	ri =60 mm, 1490 Erection Hook	**7.90**	**7.90R**
4	**Bulldog Grip *f* 26**	**5**	**Bulldog Grip** for Cable ϕ 26 mm MS forged, according to ISI standard, **hot dip galvanized**	**1.10**	**5.50D**

A = 40.72 kg. Total transportation Weight, D+R	**D = 5.50 kg. Bulldog Grips**	**R = 35.22 kg. Reinforcement Steel**

Typical Cross Section of RCC Drum

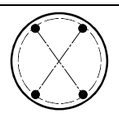


Form work for Drum is done with a bamboo mat (*Chitra)* lined with a plastic sheet.Use bindingwirearound the drum for fixing.

Anchor Rods
Ribbed Tor steel *f* 25mm
Drill holes of *f* 32 mm as shown in table below.
Volume per hole = 0.002m^3

Anchore Rods to be grouted in cement mortar **1:1**

Dimension of Drums and Quantity of Anchor Rods :

Cable f mm	arrangement of anchor rods	required diameter of: RCC Drum [cm]	required diameter of: circle of rod holes [cm]	Total Volume of Drum [m^3]	Required Anchor Rods *f* 25 mm [nos]	Stirrups f 10 mm: nos	Stirrups f 10 mm: cutting length [mm]	Stirrups f 10 mm: bending dia [mm]	Stirrups f 10 mm: weight kg/pc [kg]
Cable *f* **26**		65	50	0.20	**4**	3	2270	530	1.40

Standard Quantitities

Type of construction	[m^3]
Hammer dressed Stone Masonry 1:6	0.88
Concrete 1:2:4	0.20
Concrete 1:3:6	0.13
Broken Stones	0.32

HMG / Ministry of Local Development
DoLIDAR / Short SpanTrail Bridge Standard
Bridge Name:
No: Bank: Span:
Construction Drawing:

Windguy Cable Drum Anchor
for Cable f 26 mm
for Hard Rock
Direct Cable Connection
Anchor Type WDR 1

Date : September 30, 2002 **Drawing No. 57Acon**