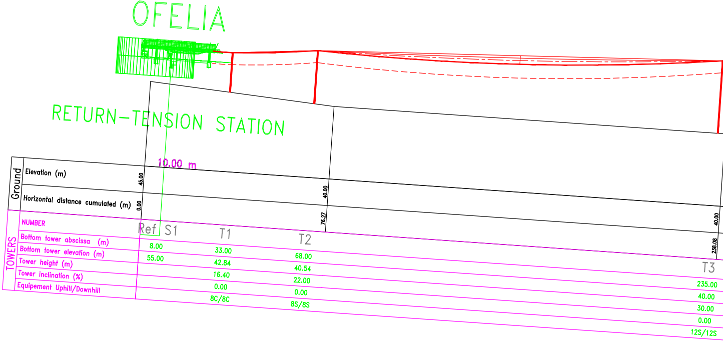
OFELIA
RETURN-TENSION STATION
10.00 m
Ground
TOWERS

Ground	0.00	76.27	238.08
Elevation (m)	45.00	40.00	40.00
Horizontal distance cumulated (m)	0.00	76.27	238.08

NUMBER	Ref S1	T1	T2	T3
Bottom tower abscissa (m)	8.00	33.00	68.00	235.00
Bottom tower elevation (m)	55.00	42.84	40.54	40.00
Tower height (m)		16.40	22.00	30.00
Tower inclination (%)		0.00	0.00	0.00
Equipement Uphill/Downhill		8C/8C	8S/8S	12S/12S

LEGEND

———	Span chord line
⌣	Rope only
–·–·–	Rope with empty vehicles
━━━	Rope with loaded vehicles
– – –	Path of bottom loaded vehicles +20%

QUITO GD10 NORD OFELIA VELASCO – LIBERTAD – PISULI 25/11/2014 1/1000 Profil inclination: 4 degres. File Name: PL_905_B.DWG

Snow depth: 0.00 m. Vehicle depht: 4.97 m. Number Line Calculation Note: QT 214.1773 NCL 637-1 B & QT 214.1773 NCL 637-2 B.

Lengh of ground clearance between 30.00 m & 60.00 m without snow: 382.13 m < 622.90 m permissible.

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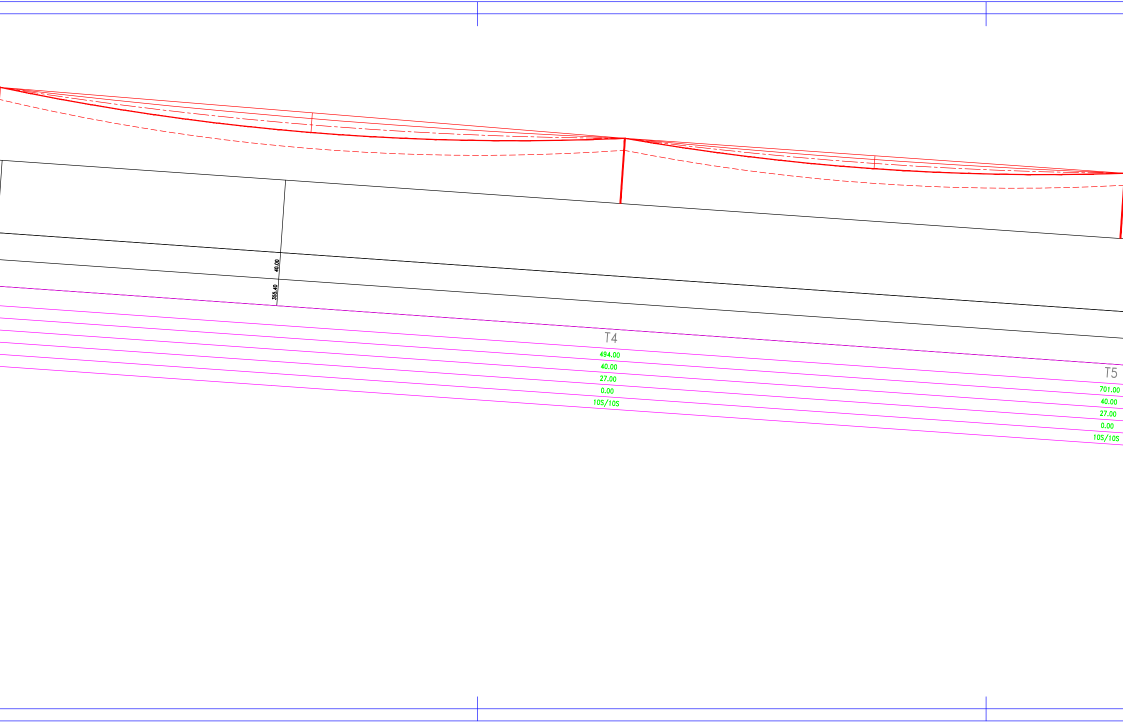
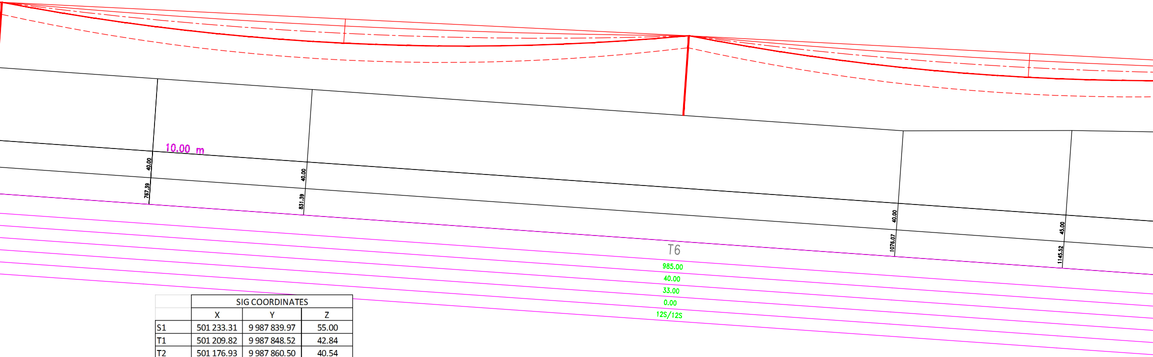
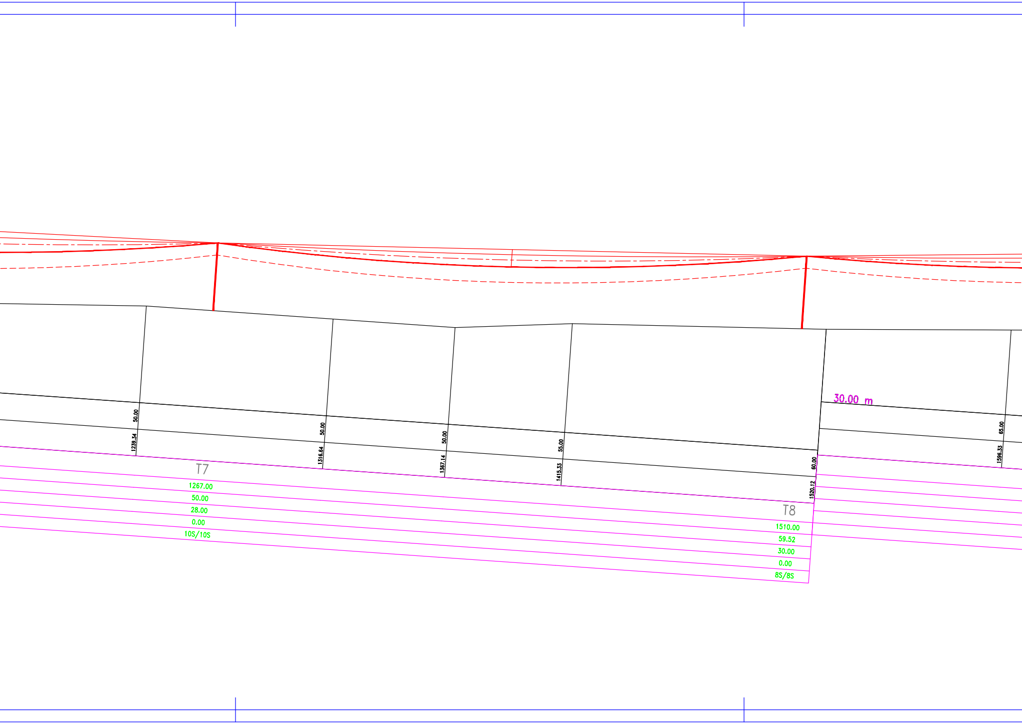
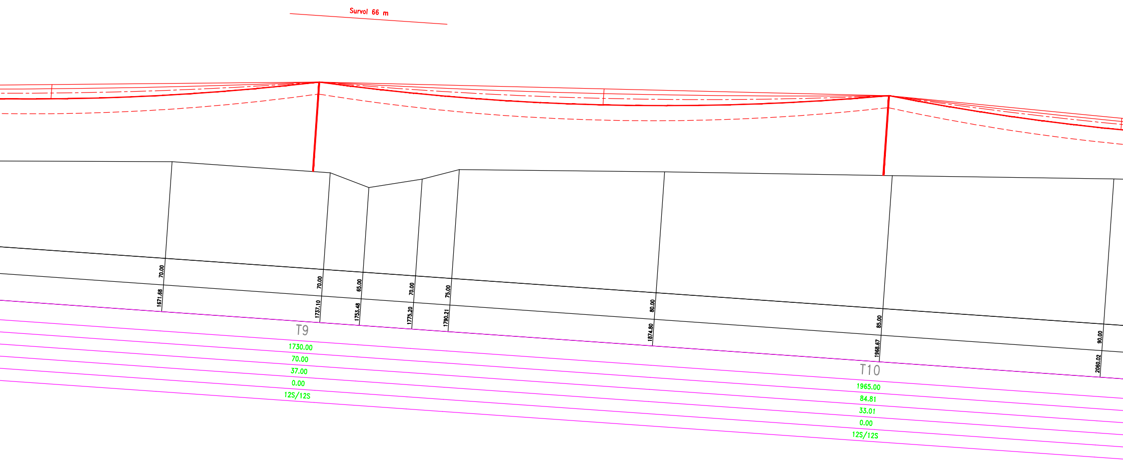

40.00
355.40
T4
494.00
40.00
27.00
0.00
10S/10S
T5
701.00
40.00
27.00
0.00
10S/10S

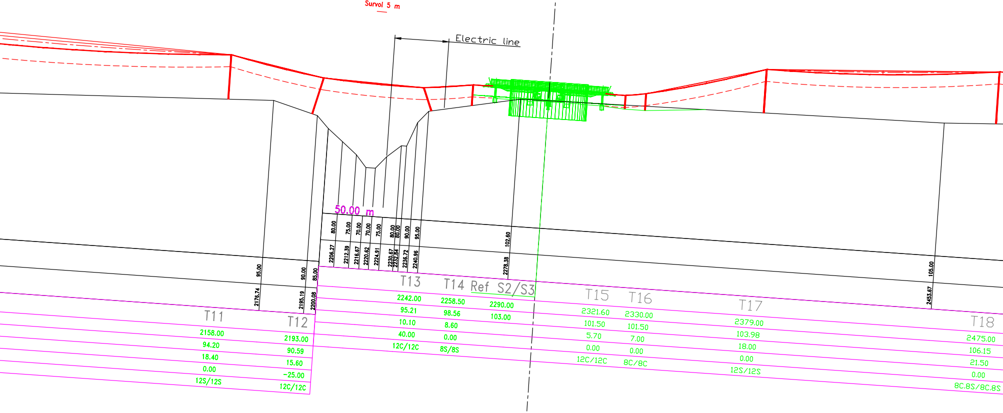

10.00 m
40.00
767.39
40.00
831.39
40.00
1076.07
45.00
1145.52
T6
985.00
40.00
33.00
0.00
12S/12S

	SIG COORDINATES		
	X	Y	Z
S1	501 233.31	9 987 839.97	55.00
T1	501 209.82	9 987 848.52	42.84
T2	501 176.93	9 987 860.50	40.54
T3	501 020.02	9 987 917.67	40.00
T4	500 776.67	9 988 006.32	40.00
T5	500 582.17	9 988 077.18	40.00
T6	500 315.33	9 988 174.39	40.00
T7	500 050.36	9 988 270.92	50.00
T8	499 822.04	9 988 354.10	59.52
T9	499 615.33	9 988 429.40	70.00
T10	499 394.53	9 988 509.84	84.81
T11	499 213.19	9 988 575.91	94.20
T12	499 180.30	9 988 587.89	90.59
T13	499 134.26	9 988 604.66	95.21
T14	499 118.76	9 988 610.31	98.56
S2/S3	499 089.16	9 988 621.09	103.00

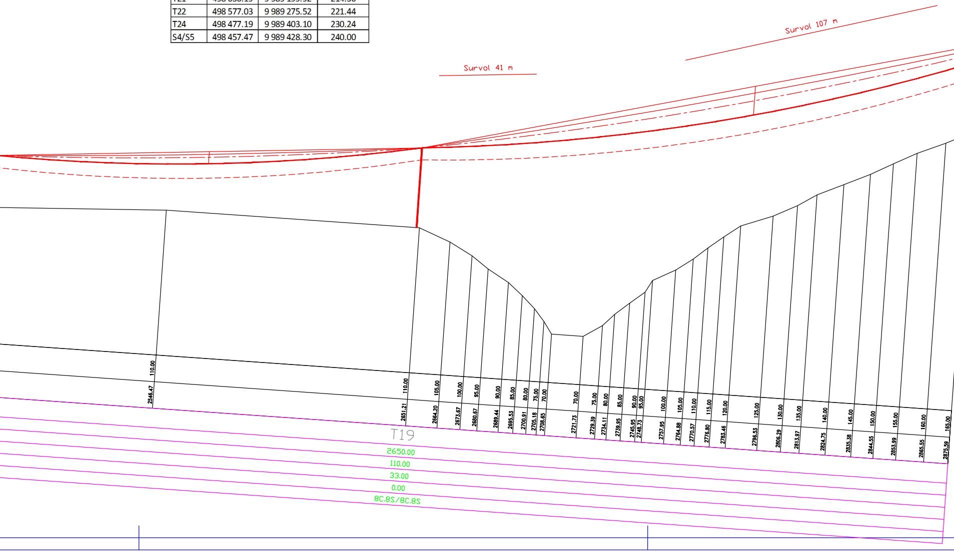

50.00
1239.34
50.00
1316.64
50.00
1367.14
55.00
1415.33
60.00
1520.12
30.00 m
65.00
1596.33
T7
1267.00
50.00
28.00
0.00
10S/10S
T8
1510.00
59.52
30.00
0.00
8S/8S

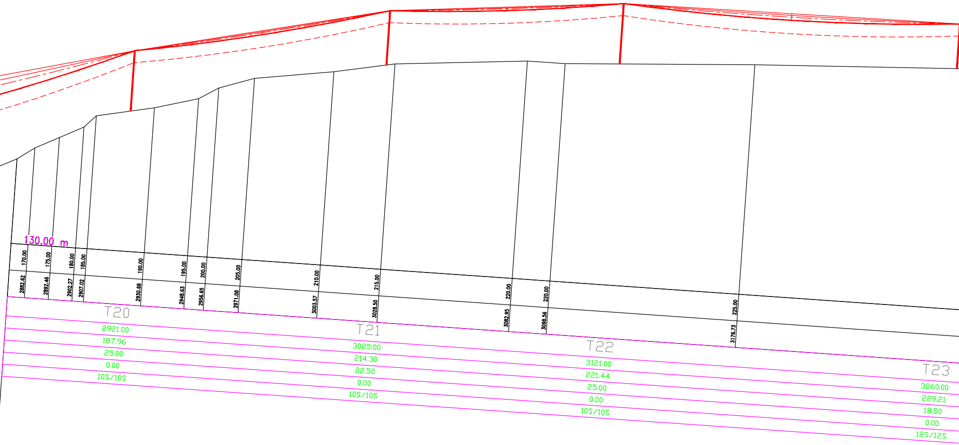

Survol 66 m
70.00
1671.68
70.00
1737.10
65.00
1753.48
70.00
1775.20
75.00
1790.21
80.00
1874.80
85.00
1968.67
90.00
2060.02
T9
1730.00
70.00
37.00
0.00
12S/12S
T10
1965.00
84.81
33.01
0.00
12S/12S

SAN ENRIQUE DE VELASCO
DEVIATION : 31,9°
FIXED DRIVE STATION

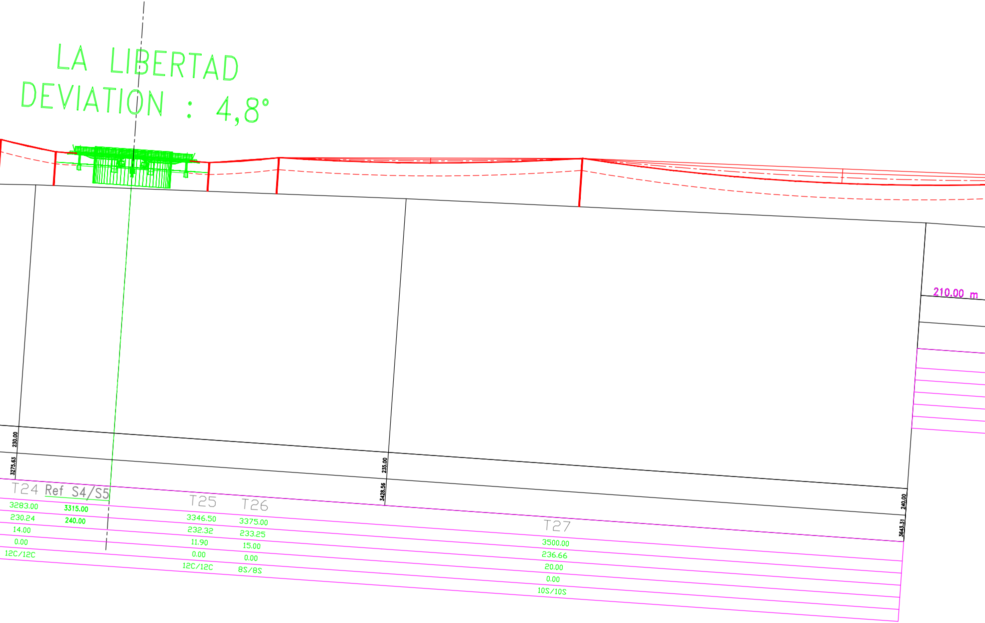

Survol 5 m
Electric line
50.00 m
95.00
2176.74
90.00
2195.19
85.00
2200.08
80.00
2206.27
75.00
2212.39
70.00
2216.67
70.00
2220.62
75.00
2224.91
80.00
2230.67
80.00
2232.84
90.00
2236.72
95.00
2240.96
102.60
2278.38
105.00
2453.67
T11
2158.00
94.20
18.40
0.00
12S/12S
T12
2193.00
90.59
15.60
-25.00
12C/12C
T13
2242.00
95.21
10.10
40.00
12C/12C
T14 Ref S2/S3
2258.50
98.56
8.60
0.00
8S/8S
2290.00
103.00
T15
2321.60
101.50
5.70
0.00
12C/12C
T16
2330.00
101.50
7.00
0.00
8C/8C
T17
2379.00
103.98
18.00
0.00
12S/12S
T18
2475.00
106.15
21.50
0.00
8C.8S/8C.8S

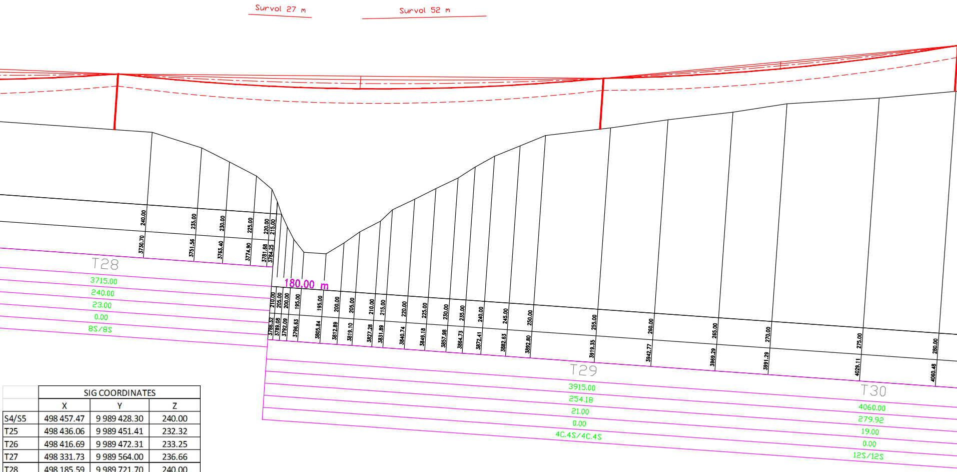
	SIG COORDINATES		
	X	Y	Z
S2/S3	499 089.16	9 988 621.09	103.00
T15	499 069.69	9 988 645.98	101.50
T16	499 064.51	9 988 652.59	101.50
T17	499 034.31	9 988 691.18	103.98
T18	498 975.15	9 988 766.78	106.15
T19	498 867.30	9 988 904.60	110.00
T20	498 700.29	9 989 118.02	187.96
T21	498 636.19	9 989 199.92	214.30
T22	498 577.03	9 989 275.52	221.44
T24	498 477.19	9 989 403.10	230.24
S4/S5	498 457.47	9 989 428.30	240.00


Survol 107 m
Survol 41 m
110.00
2546.47
110.00
2651.21
105.00
2664.20
100.00
2673.67
95.00
2680.67
90.00
2689.44
85.00
2695.53
80.00
2700.91
75.00
2705.18
70.00
2708.65
70.00
2721.73
75.00
2729.39
80.00
2734.11
85.00
2739.95
90.00
2745.95
95.00
2748.73
100.00
2757.95
105.00
2764.88
110.00
2770.57
115.00
2776.80
120.00
2783.46
125.00
2796.53
130.00
2806.29
135.00
2813.97
140.00
2824.75
145.00
2835.38
150.00
2844.55
155.00
2853.99
160.00
2865.55
165.00
2875.59
T19
2650.00
110.00
33.00
0.00
28.38/28.38



130.00 m
170.00
175.00
180.00
185.00
190.00
195.00
200.00
205.00
210.00
215.00
220.00
220.00
225.00
2882.62
2892.46
2902.27
2907.02
2930.68
2948.63
2956.65
2971.08
3003.57
3028.50
3082.95
3098.56
3176.73
T20
2921.00
187.96
25.00
0.00
10S/10S
T21
3025.00
214.30
22.50
0.00
10S/10S
T22
3121.00
221.44
25.00
0.00
10S/10S
T23
3260.00
229.21
18.50
0.00
12S/12S


LA LIBERTAD
DEVIATION : 4,8°
210.00 m
230.00
3275.63
235.00
3428.56
240.00
3643.31
T24 Ref S4/S5
3283.00
230.24
14.00
0.00
12C/12C
3315.00
240.00
T25
3346.50
232.32
11.90
0.00
12C/12C
T26
3375.00
233.25
15.00
0.00
8S/8S
T27
3500.00
236.66
20.00
0.00
10S/10S

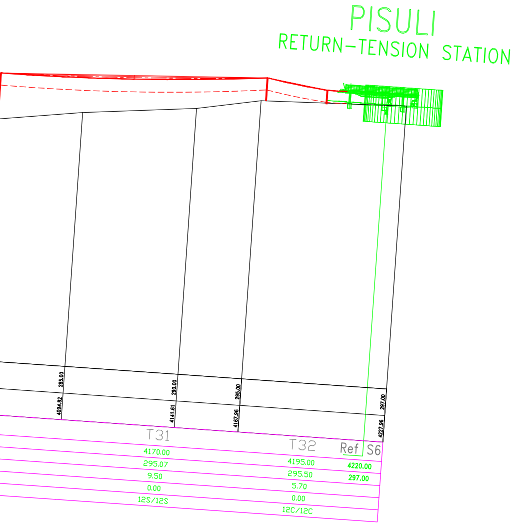

Survol 27 m
Survol 52 m
240.00
3730.70
235.00
3751.56
230.00
3763.40
225.00
3774.90
220.00
3781.68
215.00
3784.25
T28
3715.00
240.00
23.00
0.00
8S/8S
180.00 m
210.00
3786.32
205.00
3789.08
200.00
3792.09
195.00
3796.63
195.00
3805.84
200.00
3812.89
205.00
3819.10
210.00
3827.28
215.00
3831.89
220.00
3840.74
225.00
3849.18
230.00
3857.98
235.00
3864.73
240.00
3872.41
245.00
3882.63
250.00
3892.80
255.00
3919.35
260.00
3942.77
265.00
3969.29
270.00
3991.29
275.00
4029.11
280.00
4060.48
T29
3915.00
254.18
21.00
0.00
4C.4S/4C.4S
T30
4060.00
279.92
19.00
0.00
12S/12S

	SIG COORDINATES		
	X	Y	Z
S4/S5	498 457.47	9 989 428.30	240.00
T25	498 436.06	9 989 451.41	232.32
T26	498 416.69	9 989 472.31	233.25
T27	498 331.73	9 989 564.00	236.66
T28	498 185.59	9 989 721.70	240.00
T29	498 049.65	9 989 868.39	254.18
T30	497 951.09	9 989 974.75	279.92
T31	497 876.32	9 990 055.43	295.07
T32	497 859.33	9 990 073.77	295.50
S6	497 842.34	9 990 092.11	297.00

GROUND ORIGIN :
- SIG

CALCULATION HYPOTHESES :
- Direction of travel : clokwise or anti-clockwise - Up = to define.
- Snow depth : 0.00 m on-piste & off-piste.

OBSERVATIONS :
- Levels of buildings & eletric lines need to be clarified.


PISULI
RETURN-TENSION STATION
285.00
4094.82
290.00
4141.61
295.00
4167.96
297.00
4227.96
T31
4170.00
295.07
9.50
0.00
12S/12S
T32
4195.00
295.50
5.70
0.00
12C/12C
Ref
S6
4220.00
297.00

QUITOCABLE

GD10 NORD

OFELIA - VELASCO - LIBERTAD - PISULI

SPECIFICATIONS

- TYPE : GONDOLA 10 PLACES
- LENGTH OF ROPEWAY : 4152.64 m
- VERTICAL RISE : 242.00 m
- CAPACITY : 3600 p/h
- ROPE SPEED : 6.00 m/s
- TRAVEL TIME : 17.09 min
- DIST. BETWEEN 2 VEHICLES : 60.00 m
- NB OF VEHICLES ON THE LINE : 145 u
- ROPE DIAMETER : 58.00 mm
- DRIVE LOCATION : VELASCO
- TENSION LOCATION : OFELIA
PISULI
- To TENSION SUM :
  - OFELIA : 85000 daN
  - PISULI : 85000 daN
- MOTOR POWER : 1257 KW
- DRIVE BULLWHELL D. : 4.80 m
- MAX TORQUE : 66372 m.daN

Revision	Visa Date Name	Visa Date Name	Visa Date Name	MODIFICATION
	DESIGNED	CHECKED	APPROVED	
B	25/11/2014 M.GILLARD	25/11/2014 M.GILLARD	25/11/2014 N.BLANDON	New axis.
A	20/10/2014 M.GILLARD	20/10/2014 M.GILLARD	20/10/2014 N.BLANDON	Document creation Documents and reservations, see inset

Municipalidad de Quito

DCSA ingénieur conseil

DCSA
43 Bd des Alpes 38240 MEYLAN (FRANCE)

Consulting Engineer
GRENOBLE FRANCE

LONGITUDINAL PROFIL

MONOCAD

Date: 25/11/2014
Scale: 1/1000

Phase
EXE ☐
DESIGN ☒

DRAWING NUMBER
QT 214.1773 PL 905 B