PROCES – VERBAL DE RECEPŢIE NR. 12

Întocmit astăzi 16.09.2016

1. Privind lucrarea: ***Ridicare topografică pentru REACTUALIZARE STUDIU DE FEZABILTATE PESTE DUNARE IN ZONA Jijila si Smardan***

2. Beneficiar: COMPANIA NATIONALA DE AUTOSTRAZI SI DRUMURI NATIONALE DIN ROMANIA.

3. Executant : SC TDE Terittorial Data Elaboration SRL ., persoana juridica autorizata cu Certificatul de autorizare Seria RO-B-J, nr. 0125, clasa II, reprezentata prin persoana fizica autorizată MUSAT SORIN cu Certificatul de autorizare Seria RO-B-F-Nr. 0635, Categoria B.

4. Denumirea lucrării recepţionate: Privind lucrarea: ***Ridicare topografică pentru studiu de FEZABILTATE pentru "POD SUSPENDAT PESTE DUNARE IN ZONA BRAILA" situat in comuna JIJILA.***

Nominalizarea documentelor şi a documentaţiilor care se predau la OCPI Tulcea:

- cerere de recepţie
- memoriu tehnic, care cuprinde : metodele de lucru, instrumente utilizate, prelucrarea şi modul de stocare, organizare şi repartizare a datelor, preciziile obţinute, suprafaţa pe care se execută lucrarea.
- plan de încadrare în zonă si calculul suprefetei zonei studiate.
- plan topografic în format analogic şi digital- format dxf.
- dovada plăţii tarifelor legale.

5. Concluziile comisiei de recepţie: lucrarea este declarata **ADMISĂ** .

Valeria PAUN
Subinginer cadastru

Victoria LAZAR
Sef serviciu Cadastru

ANEXA NR. 1.29 la regulament

Nr. de înregistrare/data...../.....

BORDEROU

- **Adresa imobilului: UAT___JIJILA, UAT SMÂRDAN, JUDEŢUL TULCEA_____**

Adresă imobil							Nr. CF/ Nr. cad (IE)
Localitate	Strada (Tarla)	Număr (Parcelă)	Bloc	Scara	Etaj	Ap.	
UAT JIJILA, UAT SMÂRDAN JUDEŢUL TULCEA	**EXTRAVILAN, INTRAVILAN CONFORM CU ÎNCADRAREA ÎN ZONĂ**						

Proprietari:

Nume	Prenume	CNP

Persoană autorizată:

Nume (denumire PJA)	Prenume	CNP/CUI
Musat Sorin		1 6 9 0 4 2 2 1 0 0 0 7 7

- **Număr pagini documentaţie:**
- **Numarul de ordine al documentaţiei din registrul de evidenţă a lucrărilor:**
- **Conţinutul documentaţiei:**
  - ☐ borderou;
  - ☐ dovada achitării tarifului;
  - ☐ formularele tipizate de cereri şi declaraţii;
  - ☐ certificat fiscal;
  - ☐ copii ale actelor de identitate ale proprietarilor persoane fizice sau copii ale certificatelor de înmatriculare, în cazul persoanelor juridice;
  - ☐ copie a extrasului de carte funciară, după caz;
  - ☐ originalul sau copia legalizată a actelor în temeiul cărora se solicită înscrierea;
  - ☐ memoriu tehnic;
  - ☐ plan de amplasament şi delimitare;
  - ☐ releveele construcţiilor;
  - ☐ plan de încadrare în zonă la o scară convenabilă, astfel încât imobilul să poată fi localizat.

Semnătura şi ştampila
(persoană autorizată)
.....

Serviciu achitat cu chitanţa nr.	Data	Suma	Cod serviciu

Persoana fizică autorizată de ANCPI să execute lucrări de cadastru, geodezie și cartografie
CERTIFICAT DE AUTORIZARE Seria RO-B-F Nr. 0635
CATEGORIA II
SORIN MUSAT

Persoana juridică autorizată de ANCPI să execute lucrări de cadastru, geodezie și cartografie
CERTIFICAT DE AUTORIZARE
Seria RO-B-J
Nr 0125
S.C. T.D.E. Territorial Data Elaboration S.R.L.
CLASA II

CĂTRE
OFICIUL DE CADASTRU ŞI PUBLICITATE IMOBILIARĂ...TULCEA.....
BIROUL DE CADASTRU ŞI PUBLICITATE IMOBILIARĂ.....

Nr. de înregistrare ...../...../...../ .....

CERERE PRIVIND SOLICITAREA AVIZULUI DE ÎNCEPERE / RECEPŢIE A LUCRĂRII

Subsemnatul Musat Sorin domiciliat în mun. Buzau, bld. Unirii, bl. 28C, etj 3, ap 13, jud.Buzau tel./fax 07339862, e-mail: office@tde.ro, persoană fizica autorizată, posesoare a certificatului de autorizare categorie A, seria RO-B-F Nr. 0635 eliberat de A.N.C.P.I., la data 17.11.2010, solicit:

I. OBIECTUL CERERII :

☐ - emiterea avizului de începere a lucrării;

☐ - recepţia tehnică a lucrării de specialitate:

II.TIPUL LUCRĂRII: Studiului topografic în cadrul lucrării Reactualizare Studiu de Fezabilitate pentru „Pod Suspendat peste Dunăre în zona Brăila"

III.EXECUTANT: S.C. T.D.E. Territorial Data Elaboration srl

IV.BENEFICIAR: C.N.A.D.N.R.

IMOBILUL este identificat prin: U.A.T. Jijila, U.A.T. Smârdan

Adresa imobil							Nr. CF/ Nr.cad (IE)
Localitate	Strada (Tarla)	Numar (Parcela)	Bloc	Scara	Etaj	Ap.	
U.A.T. Jijila U.A.T. Smârdan Jud. Tulcea							

Persoană fizică autorizată de ANCPI să execute lucrări de cadastru, geodezie și cartografie
CERTIFICAT DE AUTORIZARE Seria RO-B-F Nr. 0635 SORIN MUSAT CATEGORIA

Semnătura şi ştampila

(persoană autorizată)

Serviciu achitat cu chitanta nr.	Data	Suma	Cod serviciu

MEMORIU TEHNIC

1. Adresa imobil: Reactualizare studiu de fezabilitate pentru „POD SUSPENDAT PESTE DUNĂRE ÎN ZONA BRĂILA".

2. Tipul lucrării: Studiu topografic.

3. Scurtă prezentare a situaţiei din teren: Zona studiată se află situată pe teritoriul administrativ al localităţilor Smârdan şi Jijila şi face parte din studiul în vederea reactualizării S.F. comandat de către C.N.A.D.N.R.

4. Situaţia juridică a imobilului conform fişei imobilului anexată: Zona studiată din punct de vedere juridic se află în proprietate privată, de stat şi A.D.S.

5. Operaţiuni topo - cadastrale efectuate: Suprafaţa studiată a fost modificată de la 521 ha la o suprafaţă de aproximativ 573 ha. Această modificare include o staţie de taxare.

Îndesire reţea de sprijin în vederea efectuării studiului geologic şi a studiului batimetric în albia minoră a fluviului Dunărea în zona de trecere a podului. De asemenea s-a efectuat o cartografiere a zonei de racordare cu E87. Măsurătorile topografice s-au efectuat în sistem de proiecţie stereografic 1970 cu respectarea Regulamentului aprobat prin Ordinul 700/2014. Reţeaua de sprijin a fost executată cu ajutorul tehnologiei GNSS utilizând puncte permanente din reţeaua existentă, folosind receptoare cu dublă frecvenţă.

Data:

Semnătură şi ştampilă:



Inventar de coordonate

Nr. pct	X(m)	Y(m)
1	429340,115	747243,353
2	428936,318	747229,233
3	428703,989	747027,293
4	428532,26	746775,507
5	428465,499	746335,887
6	428434,686	746191,918
7	428375,628	745981,106
8	428054,985	745491,265
9	427288,609	744233,67
10	427064,601	743860,735
11	426858,826	743500,839
12	426714,703	743303,584
13	426560,14	743175,061
14	426423,916	743038,669
15	426229,598	742878,852
16	426108,746	742763,112
17	426030,698	742609,336
18	425949,021	742419,402
19	425906,865	742195,174
20	425906,865	741976,222
21	425869,131	741138,99
22	425907,164	740428,162
23	425970,553	740051,592
24	426131,139	739624,248
25	426411,62	739008,671
26	426636,237	738541,914
27	426863,65	737978,143
28	427008,571	737525,776
29	426799,714	737440,423
30	426228,555	737359,339
31	425409,418	737246,04
32	425233,657	737276,085
33	424946,437	737447,77
34	423700,407	738122,469
35	423700,407	738666,325
36	422939,217	738680,34
37	423366,739	737506,662
38	423773,575	737665,454
39	424042,501	737617,126
40	424587,248	737299,542
41	425263,009	736954,343
42	425359,547	736878,399
43	425468,638	736990,735
44	426277,728	737039,201
45	427217,114	737115,193
46	428041,606	735830,242
47	428009,649	735427,806
48	428077,62	735461,09



49	428235,61	735535,79
50	428445,5	735644,06
51	428649,58	735757,253
52	428455,685	736129,085
53	427610,707	737536,803
54	427404,557	737528,019
55	427237,882	737607,067
56	426765,466	738848,364
57	426334,343	739750,729
58	426171,123	740254,241
59	426112,245	741028,52
60	426112,245	742006,137
61	426211,302	742445,356
62	426381,114	742764,144
63	426706,587	742976,669
64	426947,154	743224,616
65	427726,886	744508,576
66	428117,618	745100,853
67	428435,3	745651,442
68	428642,922	746111,237
69	428759,234	746498,101
70	428893,724	746475,067
71	429019,367	746694,769
72	429146,293	746787,62
73	429412,769	746867,681



- when it has to be right

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Loops and Misclosures

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GPS Baseline Loops

Loop 1

From	To	dX[m]	dY[m]	dZ[m]
BUCU	T14	-125238.312	98978.488	66659.348
T14	T15	404.944	283.318	-456.066
T15	BUCU	124833.355	-99261.803	-66203.281
X:	-0.014 m	W-Test:	-0.49	
Y:	0.003 m		0.19	
Z:	0.001 m		0.03	
Easting:	0.009 m	W-Test:	0.46	
Northing:	0.008 m		0.31	
Height:	-0.007 m		-0.26	
Closing error:	0.014 m	(0.0 ppm)	Ratio: (1:24733746)	
Length:	346342.693 m			

Loop 2

From	To	dX[m]	dY[m]	dZ[m]
BUCU	T13	-126463.655	99195.174	67630.116
T13	T15	1630.301	66.636	-1426.819
T15	BUCU	124833.355	-99261.803	-66203.281
X:	0.000 m	W-Test:	0.02	
Y:	0.008 m		0.62	
Z:	0.015 m		0.68	
Easting:	0.007 m	W-Test:	0.49	
Northing:	0.008 m		0.41	
Height:	0.014 m		0.68	
Closing error:	0.017 m	(0.0 ppm)	Ratio: (1:20352752)	
Length:	349224.531 m			

Loop 3

From	To	dX[m]	dY[m]	dZ[m]
T14	T15	404.944	283.318	-456.066
T15	COST	52686.065	90840.668	-90318.673
COST	T14	-53091.033	-91123.987	90774.721
X:	-0.024 m	W-Test:	-0.78	
Y:	-0.001 m		-0.04	

Z:	-0.018 m		-0.60
Easting:	0.011 m	W-Test:	0.48
Northing:	0.003 m		0.10
Height:	-0.028 m		-0.96
Closing error:	0.030 m	(0.1 ppm)	Ratio:(1:9312474)
Length:	278331.983 m		

Loop 4

From	To	dX[m]	dY[m]	dZ[m]
T15	T13	-1630.301	-66.636	1426.819
T13	COST	54316.362	90907.302	-91745.511
COST	T15	-52686.065	-90840.668	90318.673

X:	-0.004 m	W-Test:	-0.22
Y:	-0.002 m		-0.18
Z:	-0.019 m		-0.89
Easting:	0.000 m	W-Test:	0.00
Northing:	-0.010 m		-0.53
Height:	-0.017 m		-0.86
Closing error:	0.020 m	(0.1 ppm)	Ratio: (1:14206669)
Length:	280791.535 m		

Loop 5

From	To	dX[m]	dY[m]	dZ[m]
T14	T15	404.944	283.318	-456.066
T15	BACA	-51402.707	-118531.608	97252.204
BACA	T14	50997.779	118248.298	-96796.122

X:	0.016 m	W-Test:	0.45
Y:	0.007 m		0.32
Z:	0.016 m		0.49
Easting:	-0.001 m	W-Test:	-0.04
Northing:	-0.002 m		-0.05
Height:	0.024 m		0.72
Closing error:	0.024 m	(0.1 ppm)	Ratio: (1:13658052)
Length:	323481.128 m		

Loop 6

From	To	dX[m]	dY[m]	dZ[m]
T15	T13	-1630.301	-66.636	1426.819
T13	BACA	-49772.560	-118465.044	95825.210
BACA	T15	51402.707	118531.608	-97252.204

X:	-0.155 m	W-Test:	-5.64	⚠
Y:	-0.072 m		-4.29	⚠
Z:	-0.175 m		-5.53	⚠
Easting:	0.008 m	W-Test:	0.40	
Northing:	0.000 m		0.00	
Height:	-0.244 m		-8.48	⚠

Closing error:	0.245 m	(0.8 ppm)	Ratio:(1:1325396)
Length:	324169.733 m		



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GPS Baseline Loops

Loop 1

From	To	dX[m]	dY[m]	dZ[m]
K7	K9	-1479.662	303.881	1148.861
K9	R103	2832.146	-24.804	-2456.507
R103	K7	-1352.482	-279.080	1307.630

X:	0.003 m	W-Test:	0.22
Y:	-0.003 m		-0.32
Z:	-0.016 m		-0.88
Easting:	-0.004 m	W-Test:	-0.38
Northing:	-0.012 m		-0.78
Height:	-0.011 m		-0.71
Closing error:	0.016 m	(2.2 ppm)	Ratio:(1:459366)
Length:	7548.779 m		

Loop 2

From	To	dX[m]	dY[m]	dZ[m]
K7	K103	1311.006	323.903	-1296.857
K103	R103	41.476	-44.826	-10.789
R103	K7	-1352.482	-279.080	1307.630

X:	0.001 m	W-Test:	0.07
Y:	-0.003 m		-0.41
Z:	-0.016 m		-1.14
Easting:	-0.003 m	W-Test:	-0.38
Northing:	-0.010 m		-0.91
Height:	-0.012 m		-1.02
Closing error:	0.016 m	(4.2 ppm)	Ratio:(1:240434)
Length:	3836.149 m		

Loop 3

From	To	dX[m]	dY[m]	dZ[m]
K7	K9	-1479.662	303.881	1148.861
K9	K8	542.511	26.061	-483.426
K8	K7	937.146	-329.943	-665.436

X:	-0.005 m	W-Test:	-0.92
Y:	0.000 m		-0.13
Z:	-0.002 m		-0.35

Easting:	0.002 m	W-Test:	0.44
Northing:	0.002 m		0.43
Height:	-0.004 m		-0.90
Closing error:	0.005 m	(1.3 ppm)	Ratio:(1:793978)
Length:	3820.700 m		

Loop 4

From	To	dX[m]	dY[m]	dZ[m]
K7	K101	-765.263	-1156.078	1204.914
K101	K8	-171.901	1486.017	-539.515
K8	K7	937.146	-329.943	-665.436

X:	-0.018 m	W-Test:	-2.05	⚠
Y:	-0.003 m		-0.68	
Z:	-0.038 m		-2.74	⚠
Easting:	0.005 m	W-Test:	0.87	
Northing:	-0.014 m		-1.25	
Height:	-0.039 m		-3.46	⚠
Closing error:	0.042 m	(9.0 ppm)	Ratio:(1:110791)	
Length:	4622.866 m			

Loop 5

From	To	dX[m]	dY[m]	dZ[m]
K101	K100	-164.830	29.507	130.532
K100	K8	-7.065	1456.517	-670.031
K8	K101	171.901	-1486.017	539.515

X:	0.006 m	W-Test:	0.76
Y:	0.007 m		1.51
Z:	0.016 m		1.57
Easting:	0.003 m	W-Test:	0.60
Northing:	0.005 m		0.59
Height:	0.017 m		1.96
Closing error:	0.018 m	(5.4 ppm)	Ratio:(1:185641)
Length:	3405.817 m		

Loop 6

From	To	dX[m]	dY[m]	dZ[m]
K7	B7	-862.141	-1126.588	1276.604
B7	K8	-74.995	1456.536	-611.152
K8	K7	937.146	-329.943	-665.436

X:	0.010 m	W-Test:	0.65
Y:	0.005 m		0.59
Z:	0.015 m		0.60
Easting:	0.000 m	W-Test:	-0.01
Northing:	0.002 m		0.12
Height:	0.019 m		0.91
Closing error:	0.019 m	(4.1 ppm)	Ratio:(1:243751)
Length:	4685.583 m		

Loop 7

From	To	dX[m]	dY[m]	dZ[m]
K9	G6	491.798	21.657	-439.226
G6	K7	987.869	-325.541	-709.632
K7	K9	-1479.662	303.881	1148.861
X:	0.005 m	W-Test:	0.39	
Y:	-0.003 m		-0.34	
Z:	0.003 m		0.32	
Easting:	-0.005 m	W-Test:	-0.51	
Northing:	0.000 m		0.01	
Height:	0.005 m		0.40	
Closing error:	0.007 m	(1.9 ppm)	Ratio:(1:539681)	
Length:	3816.675 m			

Loop 8

From	To	dX[m]	dY[m]	dZ[m]
K10	G100	-2332.640	2318.776	995.873
G100	K21	-149.633	-823.498	478.073
K21	K10	2482.273	-1495.278	-1473.949
X:	0.001 m	W-Test:	0.10	
Y:	0.001 m		0.10	
Z:	-0.003 m		-0.33	
Easting:	0.000 m	W-Test:	0.02	
Northing:	-0.003 m		-0.33	
Height:	-0.001 m		-0.17	
Closing error:	0.003 m	(0.4 ppm)	Ratio:(1:2351302)	
Length:	7651.582 m			

Loop 9

From	To	dX[m]	dY[m]	dZ[m]
K105	K104	1824.802	692.983	-1913.708
K104	K18	-2764.838	-320.776	2562.079
K18	K105	940.030	-372.208	-648.386
X:	-0.005 m	W-Test:	-1.56	
Y:	-0.001 m		-0.49	
Z:	-0.015 m		-3.66	⚠
Easting:	0.001 m	W-Test:	0.54	
Northing:	-0.007 m		-1.78	
Height:	-0.014 m		-3.87	⚠
Closing error:	0.016 m	(2.0 ppm)	Ratio:(1:490099)	
Length:	7717.704 m			

Loop 10

From	To	dX[m]	dY[m]	dZ[m]
K105	K102	1864.187	-445.762	-1421.977
K102	K18	-2804.229	817.966	2070.343
K18	K105	940.030	-372.208	-648.386
X:	-0.012 m	W-Test:	-2.79	⚠
Y:	-0.004 m		-1.23	

Z:	-0.020 m		-3.87	⚠
Easting:	0.002 m	W-Test:	0.68	
Northing:	-0.005 m		-1.14	
Height:	-0.023 m		-4.93	⚠
Closing error:	0.024 m	(3.3 ppm)	Ratio:(1:301670)	
Length:	7168.070 m			

Loop 11

From	To	dX[m]	dY[m]	dZ[m]
K106	K18	-83.940	-1738.204	885.309
K18	K16	701.809	1274.269	-1211.060
K16	K106	-617.867	463.936	325.745

X:	0.002 m	W-Test:	0.20
Y:	0.000 m		-0.04
Z:	-0.007 m		-0.73
Easting:	-0.001 m	W-Test:	-0.16
Northing:	-0.006 m		-0.67
Height:	-0.004 m		-0.44
Closing error:	0.007 m	(1.5 ppm)	Ratio:(1:685231)
Length:	4683.864 m		

Loop 12

From	To	dX[m]	dY[m]	dZ[m]
K13	K14	-371.922	-508.054	560.415
K14	K16	1834.208	-2097.738	-624.041
K16	K13	-1462.282	2605.792	63.624

X:	0.004 m	W-Test:	0.47
Y:	0.000 m		0.06
Z:	-0.003 m		-0.29
Easting:	-0.002 m	W-Test:	-0.24
Northing:	-0.005 m		-0.52
Height:	0.001 m		0.09
Closing error:	0.005 m	(0.7 ppm)	Ratio:(1:1374859)
Length:	6687.206 m		

Loop 13

From	To	dX[m]	dY[m]	dZ[m]
K106	K105	856.084	-2110.414	236.914
K105	K16	-238.215	1646.479	-562.664
K16	K106	-617.867	463.936	325.745

X:	0.003 m	W-Test:	0.55
Y:	0.001 m		0.20
Z:	-0.005 m		-1.08
Easting:	-0.001 m	W-Test:	-0.20
Northing:	-0.006 m		-1.20
Height:	-0.002 m		-0.45
Closing error:	0.006 m	(1.2 ppm)	Ratio:(1:814934)
Length:	4884.439 m		

Loop 14

From	To	dX[m]	dY[m]	dZ[m]
K13	G15	-486.130	-835.362	812.732
G15	K16	1948.411	-1770.425	-876.358
K16	K13	-1462.282	2605.792	63.624
X:	-0.002 m	W-Test:	-0.16	
Y:	0.005 m		0.62	
Z:	-0.003 m		-0.22	
Easting:	0.006 m	W-Test:	0.59	
Northing:	-0.003 m		-0.22	
Height:	-0.001 m		-0.11	
Closing error:	0.006 m	(0.9 ppm)	Ratio:(1:1093434)	
Length:	7026.188 m			

Loop 15

From	To	dX[m]	dY[m]	dZ[m]
K16	K14	-1834.208	2097.738	624.041
K14	K106	1216.341	-1633.804	-298.296
K106	K16	617.867	-463.936	-325.745
X:	-0.001 m	W-Test:	-0.07	
Y:	-0.002 m		-0.31	
Z:	0.000 m		0.04	
Easting:	-0.001 m	W-Test:	-0.20	
Northing:	0.001 m		0.15	
Height:	-0.001 m		-0.08	
Closing error:	0.002 m	(0.4 ppm)	Ratio:(1:2784042)	
Length:	5752.666 m			

Loop 16

From	To	dX[m]	dY[m]	dZ[m]
K16	K13	-1462.282	2605.792	63.624
K13	K106	844.418	-2141.857	262.122
K106	K16	617.867	-463.936	-325.745
X:	0.002 m	W-Test:	0.49	
Y:	0.000 m		-0.02	
Z:	0.001 m		0.19	
Easting:	-0.001 m	W-Test:	-0.32	
Northing:	-0.001 m		-0.15	
Height:	0.002 m		0.44	
Closing error:	0.002 m	(0.4 ppm)	Ratio:(1:2701268)	
Length:	6144.413 m			

Loop 17

From	To	dX[m]	dY[m]	dZ[m]
K16	G15	-1948.411	1770.425	876.358
G15	K106	1330.547	-1306.492	-550.612
K106	K16	617.867	-463.936	-325.745
X:	0.003 m	W-Test:	0.22	

Y:	-0.002 m		-0.29
Z:	0.002 m		0.14
Easting:	-0.003 m	W-Test:	-0.37
Northing:	0.000 m		0.04
Height:	0.002 m		0.17
Closing error:	0.004 m	(0.7 ppm)	Ratio:(1:1364200)
Length:	5557.507 m		

Loop 18

From	To	dX[m]	dY[m]	dZ[m]
K103	R103	41.476	-44.826	-10.789
R103	K104	-34.136	1920.447	-863.183
K104	K103	-7.341	-1875.626	873.975

X:	-0.001 m	W-Test:	-0.21
Y:	-0.005 m		-1.15
Z:	0.003 m		0.47
Easting:	-0.003 m	W-Test:	-0.69
Northing:	0.005 m		0.70
Height:	0.000 m		-0.03
Closing error:	0.006 m	(1.3 ppm)	Ratio:(1:746561)
Length:	4237.076 m		

Loop 19

From	To	dX[m]	dY[m]	dZ[m]
K103	R103	41.476	-44.826	-10.789
R103	K102	5.258	781.710	-371.467
K102	K103	-46.735	-736.885	382.260

X:	-0.001 m	W-Test:	-0.16
Y:	-0.001 m		-0.17
Z:	0.004 m		0.66
Easting:	0.000 m	W-Test:	-0.02
Northing:	0.004 m		0.62
Height:	0.002 m		0.35
Closing error:	0.004 m	(2.4 ppm)	Ratio:(1:413820)
Length:	1758.962 m		

Loop 20

From	To	dX[m]	dY[m]	dZ[m]
K18	K104	2764.838	320.776	-2562.079
K104	K102	39.388	-1138.744	491.726
K102	K18	-2804.229	817.966	2070.343

X:	-0.003 m	W-Test:	-0.62	
Y:	-0.002 m		-0.59	
Z:	-0.010 m		-2.03	⚠
Easting:	0.000 m	W-Test:	-0.11	
Northing:	-0.005 m		-1.06	
Height:	-0.010 m		-2.08	⚠
Closing error:	0.011 m	(1.2 ppm)	Ratio:(1:801924)	

Length:	8604.428 m			

Loop 21

From	To	dX[m]	dY[m]	dZ[m]
K8	B7	74.995	-1456.536	611.152
B7	K101	96.877	-29.491	-71.692
K101	K8	-171.901	1486.017	-539.515
X:	-0.029 m	W-Test:	-1.86	
Y:	-0.010 m		-1.16	
Z:	-0.054 m		-2.12	⚠
Easting:	0.004 m	W-Test:	0.41	
Northing:	-0.017 m		-0.80	
Height:	-0.060 m		-2.88	⚠
Closing error:	0.062 m	(19.0 ppm)	Ratio:(1:52749)	
Length:	3295.656 m			

Loop 22

From	To	dX[m]	dY[m]	dZ[m]
COST	K11	-58129.744	-79621.808	89823.075
K11	K10	509.153	-224.673	-337.862
K10	COST	57620.587	79846.481	-89485.205
X:	-0.003 m	W-Test:	-0.16	
Y:	0.001 m		0.06	
Z:	0.008 m		0.47	
Easting:	0.002 m	W-Test:	0.14	
Northing:	0.007 m		0.42	
Height:	0.004 m		0.24	
Closing error:	0.008 m	(0.0 ppm)	Ratio: (1:31526484)	
Length:	267071.880 m			

Loop 23

From	To	dX[m]	dY[m]	dZ[m]
K8	K9	-542.511	-26.061	483.426
K9	G6	491.798	21.657	-439.226
G6	K8	50.722	4.401	-44.193
X:	0.009 m	W-Test:	0.73	
Y:	-0.003 m		-0.37	
Z:	0.007 m		0.83	
Easting:	-0.007 m	W-Test:	-0.74	
Northing:	0.000 m		0.03	
Height:	0.010 m		0.95	
Closing error:	0.012 m	(8.5 ppm)	Ratio:(1:117889)	
Length:	1454.273 m			

Loop 24

From	To	dX[m]	dY[m]	dZ[m]
K8	K101	171.901	-1486.017	539.515
K101	G6	-222.617	1481.620	-495.315
G6	K8	50.722	4.401	-44.193

X:	0.007 m	W-Test:	0.76
Y:	0.004 m		0.80
Z:	0.007 m		0.55
Easting:	0.001 m	W-Test:	0.09
Northing:	-0.001 m		-0.06
Height:	0.010 m		0.98
Closing error:	0.010 m	(3.2 ppm)	Ratio:(1:313046)
Length:	3235.664 m		

Loop 25

From	To	dX[m]	dY[m]	dZ[m]
K8	K100	7.065	-1456.517	670.031
K100	G6	-57.784	1452.118	-625.846
G6	K8	50.722	4.401	-44.193

X:	0.003 m	W-Test:	0.97	
Y:	0.001 m		0.61	
Z:	-0.008 m		-1.97	⚠
Easting:	0.000 m	W-Test:	-0.12	
Northing:	-0.009 m		-2.23	⚠
Height:	-0.003 m		-0.86	
Closing error:	0.009 m	(2.8 ppm)	Ratio:(1:353504)	
Length:	3252.974 m			

Loop 26

From	To	dX[m]	dY[m]	dZ[m]
K8	B7	74.995	-1456.536	611.152
B7	G6	-125.726	1452.134	-566.972
G6	K8	50.722	4.401	-44.193

X:	-0.009 m	W-Test:	-0.79	
Y:	-0.001 m		-0.16	
Z:	-0.013 m		-0.75	
Easting:	0.003 m	W-Test:	0.42	
Northing:	-0.003 m		-0.23	
Height:	-0.015 m		-1.06	
Closing error:	0.016 m	(4.9 ppm)	Ratio:(1:203492)	
Length:	3212.712 m			

Loop 27

From	To	dX[m]	dY[m]	dZ[m]
K9	R103	2832.146	-24.804	-2456.507
R103	BACA	-51471.848	-122855.416	99345.520
BACA	K9	48639.607	122880.250	-96889.071

X:	-0.096 m	W-Test:	-3.73	⚠
Y:	0.030 m		1.56	
Z:	-0.058 m		-2.04	⚠
Easting:	0.071 m	W-Test:	3.42	⚠
Northing:	0.010 m		0.40	

Height:	-0.091 m		-3.44	⚠
Closing error:	0.115 m	(0.3 ppm)	Ratio:(1:2891343)	
Length:	333787.169 m			

Loop 28

From	To	dX[m]	dY[m]	dZ[m]
K9	K8	542.511	26.061	-483.426
K8	BACA	-49182.198	-122906.269	97372.485
BACA	K9	48639.607	122880.250	-96889.071

X:	-0.079 m	W-Test:	-3.81	⚠
Y:	0.041 m		2.60	⚠
Z:	-0.012 m		-0.60	
Easting:	0.073 m	W-Test:	4.30	⚠
Northing:	0.028 m		1.43	
Height:	-0.044 m		-2.24	⚠
Closing error:	0.090 m	(0.3 ppm)	Ratio:(1:3651648)	
Length:	328931.293 m			

Loop 29

From	To	dX[m]	dY[m]	dZ[m]
R103	K7	-1352.482	-279.080	1307.630
K7	BACA	-50119.273	-122576.375	98037.909
BACA	R103	51471.848	122855.416	-99345.520

X:	0.094 m	W-Test:	3.69	⚠
Y:	-0.039 m		-2.19	⚠
Z:	0.018 m		0.61	
Easting:	-0.078 m	W-Test:	-3.95	⚠
Northing:	-0.034 m		-1.24	
Height:	0.058 m		2.13	⚠
Closing error:	0.103 m	(0.3 ppm)	Ratio:(1:3229863)	
Length:	332838.976 m			

Loop 30

From	To	dX[m]	dY[m]	dZ[m]
K10	K21	-2482.273	1495.278	1473.949
K21	BACA	-43985.662	-131021.108	96611.961
BACA	K10	46467.954	129525.848	-98085.892

X:	0.019 m	W-Test:	0.39	
Y:	0.018 m		0.56	
Z:	0.019 m		0.34	
Easting:	0.008 m	W-Test:	0.21	
Northing:	-0.005 m		-0.10	
Height:	0.031 m		0.62	
Closing error:	0.032 m	(0.1 ppm)	Ratio: (1:10570884)	
Length:	340866.723 m			

Loop 31

From	To	dX[m]	dY[m]	dZ[m]
K104	K18	-2764.838	-320.776	2562.079
K18	BACA	-48672.889	-124455.119	97646.634
BACA	K104	51437.710	124775.883	-100208.729
X:	-0.017 m	W-Test:	-0.89	
Y:	-0.012 m		-0.86	
Z:	-0.016 m		-0.79	
Easting:	-0.002 m	W-Test:	-0.15	
Northing:	0.003 m		0.18	
Height:	-0.026 m		-1.34	
Closing error:	0.026 m	(0.1 ppm)	Ratio: (1:12810763)	
Length:	337388.474 m			

Loop 32

From	To	dX[m]	dY[m]	dZ[m]
K18	K16	701.809	1274.269	-1211.060
K16	BACA	-49374.725	-125729.399	98857.651
BACA	K18	48672.889	124455.119	-97646.634
X:	-0.027 m	W-Test:	-1.43	
Y:	-0.011 m		-0.87	
Z:	-0.043 m		-2.13	⚠
Easting:	0.002 m	W-Test:	0.15	
Northing:	-0.009 m		-0.48	
Height:	-0.051 m		-2.68	⚠
Closing error:	0.052 m	(0.2 ppm)	Ratio:(1:6484281)	
Length:	334788.670 m			

Loop 33

From	To	dX[m]	dY[m]	dZ[m]
K16	K14	-1834.208	2097.738	624.041
K14	BACA	-47540.453	-127827.097	98233.643
BACA	K16	49374.725	125729.399	-98857.651
X:	0.063 m	W-Test:	1.55	
Y:	0.040 m		1.39	
Z:	0.033 m		0.78	
Easting:	0.006 m	W-Test:	0.19	
Northing:	-0.030 m		-0.73	
Height:	0.076 m		1.85	
Closing error:	0.082 m	(0.2 ppm)	Ratio:(1:4140956)	
Length:	338319.581 m			

Loop 34

From	To	dX[m]	dY[m]	dZ[m]
K16	K13	-1462.282	2605.792	63.624
K13	BACA	-47912.427	-128335.202	98794.016
BACA	K16	49374.725	125729.399	-98857.651
X:	0.015 m	W-Test:	0.84	
Y:	-0.010 m		-0.81	

Z:	-0.012 m		-0.60
Easting:	-0.016 m	W-Test:	-1.15
Northing:	-0.015 m		-0.79
Height:	-0.002 m		-0.13
Closing error:	0.022 m	(0.1 ppm)	Ratio: (1:15386067)
Length:	339272.013 m		

Loop 35

From	To	dX[m]	dY[m]	dZ[m]
K18	K106	83.940	1738.204	-885.309
K106	BACA	-48756.830	-126193.316	98531.920
BACA	K18	48672.889	124455.119	-97646.634

X:	0.000 m	W-Test:	-0.02
Y:	0.007 m		0.46
Z:	-0.022 m		-0.94
Easting:	0.006 m	W-Test:	0.38
Northing:	-0.018 m		-0.79
Height:	-0.014 m		-0.63
Closing error:	0.023 m	(0.1 ppm)	Ratio: (1:14354138)
Length:	334824.200 m		

Loop 36

From	To	dX[m]	dY[m]	dZ[m]
K16	K105	238.215	-1646.479	562.664
K105	BACA	-49612.920	-124082.909	98295.026
BACA	K16	49374.725	125729.399	-98857.651

X:	0.019 m	W-Test:	1.18	
Y:	0.011 m		0.91	
Z:	0.039 m		2.21	⚠
Easting:	0.001 m	W-Test:	0.04	
Northing:	0.012 m		0.71	
Height:	0.043 m		2.61	⚠
Closing error:	0.045 m	(0.1 ppm)	Ratio:(1:7462920)	
Length:	335035.010 m			

Loop 37

From	To	dX[m]	dY[m]	dZ[m]
R103	K103	-41.476	44.826	10.789
K103	BACA	-51430.378	-122900.242	99334.725
BACA	R103	51471.848	122855.416	-99345.520

X:	-0.006 m	W-Test:	-0.28
Y:	0.000 m		0.01
Z:	-0.006 m		-0.25
Easting:	0.003 m	W-Test:	0.19
Northing:	-0.001 m		-0.02
Height:	-0.008 m		-0.36

Closing error:	0.009 m	(0.0 ppm)	Ratio: (1:37403887)
Length:	332415.074 m		

Loop 38

From	To	dX[m]	dY[m]	dZ[m]
K18	K102	2804.229	-817.966	-2070.343
K102	BACA	-51477.103	-123637.136	99717.005
BACA	K18	48672.889	124455.119	-97646.634

X:	0.016 m	W-Test:	0.82
Y:	0.016 m		1.30
Z:	0.028 m		1.39
Easting:	0.007 m	W-Test:	0.51
Northing:	0.005 m		0.24
Height:	0.035 m		1.84
Closing error:	0.036 m	(0.1 ppm)	Ratio:(1:9238331)
Length:	336060.257 m		

Loop 39

From	To	dX[m]	dY[m]	dZ[m]
K8	K101	171.901	-1486.017	539.515
K101	BACA	-49354.089	-121420.251	96833.003
BACA	K8	49182.198	122906.269	-97372.485

X:	0.010 m	W-Test:	0.48
Y:	0.001 m		0.09
Z:	0.032 m		1.19
Easting:	-0.004 m	W-Test:	-0.26
Northing:	0.016 m		0.69
Height:	0.030 m		1.26
Closing error:	0.034 m	(0.1 ppm)	Ratio:(1:9714278)
Length:	328884.073 m		

Loop 40

From	To	dX[m]	dY[m]	dZ[m]
K8	K100	7.065	-1456.517	670.031
K100	BACA	-49189.272	-121449.754	96702.455
BACA	K8	49182.198	122906.269	-97372.485

X:	-0.010 m	W-Test:	-0.58
Y:	-0.002 m		-0.22
Z:	0.000 m		0.02
Easting:	0.003 m	W-Test:	0.20
Northing:	0.007 m		0.44
Height:	-0.007 m		-0.40
Closing error:	0.010 m	(0.0 ppm)	Ratio: (1:31591954)
Length:	328791.683 m		

Loop 41

From	To	dX[m]	dY[m]	dZ[m]
K7	G6	-987.869	325.541	709.632

G6	BACA	-49131.475	-122901.866	97328.284
BACA	K7	50119.273	122576.375	-98037.909
X:	-0.071 m	W-Test:	-2.99	⚠
Y:	0.050 m		3.10	⚠
Z:	0.007 m		0.28	
Easting:	0.078 m	W-Test:	4.28	⚠
Northing:	0.033 m		1.39	
Height:	-0.023 m		-0.94	
Closing error:	0.087 m	(0.3 ppm)	Ratio:(1:3782583)	
Length:	330317.777 m			

Loop 42

From	To	dX[m]	dY[m]	dZ[m]
K16	G15	-1948.411	1770.425	876.358
G15	BACA	-47426.236	-127499.770	97981.327
BACA	K16	49374.725	125729.399	-98857.651
X:	0.078 m	W-Test:	1.42	
Y:	0.054 m		1.38	
Z:	0.034 m		0.56	
Easting:	0.011 m	W-Test:	0.27	
Northing:	-0.043 m		-0.77	
Height:	0.090 m		1.59	
Closing error:	0.100 m	(0.3 ppm)	Ratio:(1:3369070)	
Length:	337809.956 m			

Loop 43

From	To	dX[m]	dY[m]	dZ[m]
K8	B7	74.995	-1456.536	611.152
B7	BACA	-49257.223	-121449.747	96761.285
BACA	K8	49182.198	122906.269	-97372.485
X:	-0.031 m	W-Test:	-0.53	
Y:	-0.014 m		-0.39	
Z:	-0.048 m		-0.49	
Easting:	0.002 m	W-Test:	0.06	
Northing:	-0.009 m		-0.12	
Height:	-0.058 m		-0.73	
Closing error:	0.059 m	(0.2 ppm)	Ratio:(1:5613862)	
Length:	328825.231 m			

Loop 44

From	To	dX[m]	dY[m]	dZ[m]
K9	R103	2832.146	-24.804	-2456.507
R103	BUCU	124764.094	-103585.695	-64110.094
BUCU	K9	-127596.249	103610.480	66566.577
X:	-0.009 m	W-Test:	-0.36	
Y:	-0.019 m		-1.15	
Z:	-0.025 m		-0.89	
Easting:	-0.013 m	W-Test:	-0.69	

Northing:	-0.006 m		-0.22
Height:	-0.029 m		-1.15
Closing error:	0.032 m	(0.1 ppm)	Ratio: (1:11007817)
Length:	355455.967 m		

Loop 45

From	To	dX[m]	dY[m]	dZ[m]
K9	K8	542.511	26.061	-483.426
K8	BUCU	127053.750	-103636.532	-66083.149
BUCU	K9	-127596.249	103610.480	66566.577

X:	0.012 m	W-Test:	0.70
Y:	0.008 m		0.70
Z:	0.002 m		0.12
Easting:	0.002 m	W-Test:	0.15
Northing:	-0.009 m		-0.54
Height:	0.012 m		0.71
Closing error:	0.015 m	(0.0 ppm)	Ratio: (1:24017777)
Length:	354837.432 m		

Loop 46

From	To	dX[m]	dY[m]	dZ[m]
R103	K7	-1352.482	-279.080	1307.630
K7	BUCU	126116.658	-103306.656	-65417.679
BUCU	R103	-124764.094	103585.695	64110.094

X:	0.082 m	W-Test:	3.02	⚠
Y:	-0.041 m		-2.24	⚠
Z:	0.045 m		1.44	
Easting:	-0.074 m	W-Test:	-3.61	⚠
Northing:	-0.006 m		-0.22	
Height:	0.070 m		2.45	⚠
Closing error:	0.102 m	(0.3 ppm)	Ratio:(1:3449568)	
Length:	351937.548 m			

Loop 47

From	To	dX[m]	dY[m]	dZ[m]
K104	K18	-2764.838	-320.776	2562.079
K18	BUCU	127563.050	-105185.375	-65808.986
BUCU	K104	-124798.237	105506.142	63246.895

X:	-0.026 m	W-Test:	-1.91	
Y:	-0.009 m		-0.99	
Z:	-0.012 m		-0.80	
Easting:	0.004 m	W-Test:	0.35	
Northing:	0.011 m		0.80	
Height:	-0.027 m		-2.00	⚠
Closing error:	0.030 m	(0.1 ppm)	Ratio: (1:12098811)	
Length:	356967.799 m			

Loop 48

From	To	dX[m]	dY[m]	dZ[m]
K18	K16	701.809	1274.269	-1211.060
K16	BUCU	126861.192	-106459.667	-64597.985
BUCU	K18	-127563.050	105185.375	65808.986

X:	-0.049 m	W-Test:	-3.30	⚠
Y:	-0.023 m		-2.27	⚠
Z:	-0.060 m		-3.65	⚠
Easting:	0.002 m	W-Test:	0.20	
Northing:	-0.004 m		-0.25	
Height:	-0.081 m		-5.29	⚠
Closing error:	0.081 m	(0.2 ppm)	Ratio:(1:4422023)	
Length:	357610.238 m			

Loop 49

From	To	dX[m]	dY[m]	dZ[m]
K16	K13	-1462.282	2605.792	63.624
K13	BUCU	128323.477	-109065.471	-64661.620
BUCU	K16	-126861.192	106459.667	64597.985

X:	0.003 m	W-Test:	0.19	
Y:	-0.012 m		-1.01	
Z:	-0.011 m		-0.62	
Easting:	-0.012 m	W-Test:	-0.92	
Northing:	-0.006 m		-0.37	
Height:	-0.010 m		-0.58	
Closing error:	0.016 m	(0.0 ppm)	Ratio: (1:22012676)	
Length:	361151.182 m			

Loop 50

From	To	dX[m]	dY[m]	dZ[m]
K18	K106	83.940	1738.204	-885.309
K106	BUCU	127479.074	-106923.605	-64923.715
BUCU	K18	-127563.050	105185.375	65808.986

X:	-0.036 m	W-Test:	-2.94	⚠
Y:	-0.025 m		-3.05	⚠
Z:	-0.038 m		-2.84	⚠
Easting:	-0.006 m	W-Test:	-0.65	
Northing:	0.004 m		0.32	
Height:	-0.057 m		-4.62	⚠
Closing error:	0.058 m	(0.2 ppm)	Ratio:(1:6207227)	
Length:	358507.010 m			

Loop 51

From	To	dX[m]	dY[m]	dZ[m]
K16	K105	238.215	-1646.479	562.664
K105	BUCU	126623.018	-104813.168	-65160.594
BUCU	K16	-126861.192	106459.667	64597.985

X:	0.041 m	W-Test:	3.36	⚠
Y:	0.021 m		2.44	⚠
Z:	0.055 m		4.08	⚠
Easting:	-0.001 m	W-Test:	-0.08	
Northing:	0.007 m		0.52	
Height:	0.072 m		5.69	⚠
Closing error:	0.072 m	(0.2 ppm)	Ratio:(1:4941675)	
Length:	356340.369 m			

Loop 52

From	To	dX[m]	dY[m]	dZ[m]
R103	K103	-41.476	44.826	10.789
K103	BUCU	124805.558	-103630.522	-64120.899
BUCU	R103	-124764.094	103585.695	64110.094

X:	-0.013 m	W-Test:	-0.55	
Y:	-0.001 m		-0.11	
Z:	-0.016 m		-0.63	
Easting:	0.004 m	W-Test:	0.28	
Northing:	-0.003 m		-0.12	
Height:	-0.020 m		-0.84	
Closing error:	0.020 m	(0.1 ppm)	Ratio: (1:17143749)	
Length:	348869.642 m			

Loop 53

From	To	dX[m]	dY[m]	dZ[m]
K18	K102	2804.229	-817.966	-2070.343
K102	BUCU	124758.850	-104367.402	-63738.609
BUCU	K18	-127563.050	105185.375	65808.986

X:	0.030 m	W-Test:	2.10	⚠
Y:	0.007 m		0.74	
Z:	0.034 m		2.21	⚠
Easting:	-0.007 m	W-Test:	-0.68	
Northing:	0.003 m		0.21	
Height:	0.045 m		3.12	⚠
Closing error:	0.046 m	(0.1 ppm)	Ratio:(1:7750016)	
Length:	356232.505 m			

Loop 54

From	To	dX[m]	dY[m]	dZ[m]
K8	K101	171.901	-1486.017	539.515
K101	BUCU	126881.829	-102150.524	-66622.680
BUCU	K8	-127053.750	103636.532	66083.149

X:	-0.019 m	W-Test:	-0.87	
Y:	-0.008 m		-0.66	
Z:	-0.017 m		-0.59	
Easting:	0.002 m	W-Test:	0.10	
Northing:	0.003 m		0.13	

Height:	-0.027 m		-1.08
Closing error:	0.027 m	(0.1 ppm)	Ratio: (1:13157913)
Length:	354356.931 m		

Loop 55

From	To	dX[m]	dY[m]	dZ[m]
K8	K100	7.065	-1456.517	670.031
K100	BUCU	127046.648	-102180.034	-66753.202
BUCU	K8	-127053.750	103636.532	66083.149

X:	-0.037 m	W-Test:	-2.43	⚠
Y:	-0.019 m		-2.07	⚠
Z:	-0.023 m		-1.54	
Easting:	0.000 m	W-Test:	0.00	
Northing:	0.013 m		0.92	
Height:	-0.046 m		-3.14	⚠
Closing error:	0.047 m	(0.1 ppm)	Ratio:(1:7469042)	
Length:	354555.343 m			

Loop 56

From	To	dX[m]	dY[m]	dZ[m]
R103	BACA	-51471.848	-122855.416	99345.520
BACA	K10	46467.954	129525.848	-98085.892
K10	BUCU	129767.867	-110255.989	-65369.807
BUCU	R103	-124764.094	103585.695	64110.094

X:	-0.122 m	W-Test:	-3.16	⚠
Y:	0.138 m		5.47	⚠
Z:	-0.084 m		-1.95	
Easting:	0.178 m	W-Test:	6.25	⚠
Northing:	-0.027 m		-0.67	
Height:	-0.092 m		-2.30	⚠
Closing error:	0.202 m	(0.3 ppm)	Ratio:(1:3422132)	
Length:	691930.341 m			

Loop 57

From	To	dX[m]	dY[m]	dZ[m]
K7	G6	-987.869	325.541	709.632
G6	BUCU	127104.421	-103632.141	-66127.397
BUCU	K7	-126116.658	103306.656	65417.679

X:	-0.105 m	W-Test:	-3.77	⚠
Y:	0.056 m		2.92	⚠
Z:	-0.085 m		-2.79	⚠
Easting:	0.098 m	W-Test:	4.60	⚠
Northing:	-0.013 m		-0.44	
Height:	-0.108 m		-3.79	⚠
Closing error:	0.146 m	(0.4 ppm)	Ratio:(1:2414718)	
Length:	353748.737 m			

Loop 58

From	To	dX[m]	dY[m]	dZ[m]
K8	B7	74.995	-1456.536	611.152
B7	BUCU	126978.735	-102179.999	-66694.320
BUCU	K8	-127053.750	103636.532	66083.149

X:	-0.020 m	W-Test:	-0.58
Y:	-0.003 m		-0.14
Z:	-0.019 m		-0.39
Easting:	0.007 m	W-Test:	0.29
Northing:	0.000 m		-0.01
Height:	-0.027 m		-0.65
Closing error:	0.028 m	(0.1 ppm)	Ratio: (1:12876262)
Length:	354462.127 m		

Loop 59

From	To	dX[m]	dY[m]	dZ[m]
K9	R103	2832.146	-24.804	-2456.507
R103	COST	52616.803	86516.791	-88225.481
COST	K9	-55448.937	-86491.991	90682.009

X:	0.012 m	W-Test:	0.57
Y:	-0.003 m		-0.24
Z:	0.021 m		0.83
Easting:	-0.009 m	W-Test:	-0.54
Northing:	0.009 m		0.38
Height:	0.021 m		0.93
Closing error:	0.024 m	(0.1 ppm)	Ratio: (1:11327352)
Length:	275087.912 m		

Loop 60

From	To	dX[m]	dY[m]	dZ[m]
K9	K8	542.511	26.061	-483.426
K8	COST	54906.423	86465.919	-90198.582
COST	K9	-55448.937	-86491.991	90682.009

X:	-0.002 m	W-Test:	-0.19
Y:	-0.011 m		-1.43
Z:	0.001 m		0.14
Easting:	-0.009 m	W-Test:	-1.04
Northing:	0.006 m		0.59
Height:	-0.004 m		-0.40
Closing error:	0.011 m	(0.0 ppm)	Ratio: (1:24271260)
Length:	274242.661 m		

Loop 61

From	To	dX[m]	dY[m]	dZ[m]
R103	K7	-1352.482	-279.080	1307.630
K7	COST	53969.282	86795.870	-89533.146
COST	R103	-52616.803	-86516.791	88225.481

X:	-0.002 m	W-Test:	-0.12
Y:	-0.001 m		-0.07
Z:	-0.035 m		-1.36
Easting:	0.000 m	W-Test:	0.02
Northing:	-0.023 m		-1.01
Height:	-0.026 m		-1.17
Closing error:	0.035 m	(0.1 ppm)	Ratio:(1:7796427)
Length:	272081.676 m		

Loop 62

From	To	dX[m]	dY[m]	dZ[m]
K10	K21	-2482.273	1495.278	1473.949
K21	COST	60102.864	78351.208	-90959.141
COST	K10	-57620.587	-79846.481	89485.205

X:	0.004 m	W-Test:	0.18
Y:	0.005 m		0.31
Z:	0.013 m		0.56
Easting:	0.002 m	W-Test:	0.14
Northing:	0.006 m		0.26
Height:	0.013 m		0.61
Closing error:	0.015 m	(0.1 ppm)	Ratio: (1:18368842)
Length:	270561.103 m		

Loop 63

From	To	dX[m]	dY[m]	dZ[m]
K104	K18	-2764.838	-320.776	2562.079
K18	COST	55415.725	84917.079	-89924.425
COST	K104	-52650.913	-84596.327	87362.316

X:	-0.026 m	W-Test:	-2.33	⚠
Y:	-0.024 m		-3.16	⚠
Z:	-0.030 m		-2.49	⚠
Easting:	-0.009 m	W-Test:	-1.04	
Northing:	0.003 m		0.29	
Height:	-0.046 m		-4.04	⚠
Closing error:	0.047 m	(0.2 ppm)	Ratio:(1:5828894)	
Length:	271829.727 m			

Loop 64

From	To	dX[m]	dY[m]	dZ[m]
K18	K16	701.809	1274.269	-1211.060
K16	COST	54713.907	83642.794	-88713.388
COST	K18	-55415.725	-84917.079	89924.425

X:	-0.010 m	W-Test:	-0.75
Y:	-0.015 m		-1.79
Z:	-0.023 m		-1.66
Easting:	-0.009 m	W-Test:	-0.93
Northing:	-0.005 m		-0.41

Height:	-0.028 m		-2.12	⚠
Closing error:	0.030 m	(0.1 ppm)	Ratio:(1:9183116)	
Length:	271062.800 m			

Loop 65

From	To	dX[m]	dY[m]	dZ[m]
K16	K13	-1462.282	2605.792	63.624
K13	COST	56176.193	81036.985	-88777.022
COST	K16	-54713.907	-83642.794	88713.388

X:	0.004 m	W-Test:	0.23	
Y:	-0.018 m		-1.29	
Z:	-0.010 m		-0.57	
Easting:	-0.017 m	W-Test:	-1.19	
Northing:	-0.004 m		-0.23	
Height:	-0.011 m		-0.61	
Closing error:	0.021 m	(0.1 ppm)	Ratio: (1:12973801)	
Length:	269309.772 m			

Loop 66

From	To	dX[m]	dY[m]	dZ[m]
K18	K106	83.940	1738.204	-885.309
K106	COST	55331.780	83178.855	-89039.122
COST	K18	-55415.725	-84917.079	89924.425

X:	-0.004 m	W-Test:	-0.43	
Y:	-0.019 m		-2.89	⚠
Z:	-0.006 m		-0.57	
Easting:	-0.015 m	W-Test:	-1.99	⚠
Northing:	0.005 m		0.48	
Height:	-0.013 m		-1.34	
Closing error:	0.020 m	(0.1 ppm)	Ratio: (1:13268471)	
Length:	271303.738 m			

Loop 67

From	To	dX[m]	dY[m]	dZ[m]
K16	K105	238.215	-1646.479	562.664
K105	COST	54475.695	85289.289	-89276.033
COST	K16	-54713.907	-83642.794	88713.388

X:	0.003 m	W-Test:	0.28	
Y:	0.016 m		2.18	⚠
Z:	0.019 m		1.60	
Easting:	0.013 m	W-Test:	1.55	
Northing:	0.006 m		0.57	
Height:	0.021 m		1.88	
Closing error:	0.026 m	(0.1 ppm)	Ratio: (1:10591142)	
Length:	270348.856 m			

Loop 68

From	To	dX[m]	dY[m]	dZ[m]
R103	K103	-41.476	44.826	10.789
K103	COST	52658.274	86471.965	-88236.288
COST	R103	-52616.803	-86516.791	88225.481
X:	-0.006 m	W-Test:	-0.27	
Y:	-0.001 m		-0.07	
Z:	-0.018 m		-0.76	
Easting:	0.002 m	W-Test:	0.12	
Northing:	-0.009 m		-0.42	
Height:	-0.016 m		-0.77	
Closing error:	0.019 m	(0.1 ppm)	Ratio: (1:14297368)	
Length:	268663.415 m			

Loop 69

From	To	dX[m]	dY[m]	dZ[m]
K18	K102	2804.229	-817.966	-2070.343
K102	COST	52611.530	85735.070	-87854.034
COST	K18	-55415.725	-84917.079	89924.425
X:	0.034 m	W-Test:	3.24	⚠
Y:	0.025 m		3.56	⚠
Z:	0.049 m		4.23	⚠
Easting:	0.006 m	W-Test:	0.77	
Northing:	0.005 m		0.45	
Height:	0.064 m		5.99	⚠
Closing error:	0.065 m	(0.2 ppm)	Ratio:(1:4211680)	
Length:	272664.271 m			

Loop 70

From	To	dX[m]	dY[m]	dZ[m]
K8	K101	171.901	-1486.017	539.515
K101	COST	54734.537	87951.942	-90738.084
COST	K8	-54906.423	-86465.919	90198.582
X:	0.015 m	W-Test:	0.57	
Y:	0.006 m		0.45	
Z:	0.012 m		0.40	
Easting:	-0.001 m	W-Test:	-0.07	
Northing:	-0.002 m		-0.08	
Height:	0.020 m		0.72	
Closing error:	0.020 m	(0.1 ppm)	Ratio: (1:13651049)	
Length:	275783.273 m			

Loop 71

From	To	dX[m]	dY[m]	dZ[m]
K8	K100	7.065	-1456.517	670.031
K100	COST	54899.360	87922.436	-90868.612
COST	K8	-54906.423	-86465.919	90198.582

X:	0.001 m	W-Test:	0.06
Y:	0.000 m		-0.06
Z:	0.001 m		0.08
Easting:	-0.001 m	W-Test:	-0.08
Northing:	0.000 m		0.03
Height:	0.001 m		0.08
Closing error:	0.001 m	(0.0 ppm)	Ratio: (1:230721487)
Length:	275929.055 m		

Loop 72

From	To	dX[m]	dY[m]	dZ[m]
K7	G6	-987.869	325.541	709.632
G6	COST	54957.145	86470.322	-90242.785
COST	K7	-53969.282	-86795.870	89533.146

X:	-0.005 m	W-Test:	-0.33
Y:	-0.007 m		-0.68
Z:	-0.007 m		-0.36
Easting:	-0.004 m	W-Test:	-0.31
Northing:	0.001 m		0.07
Height:	-0.010 m		-0.62
Closing error:	0.011 m	(0.0 ppm)	Ratio: (1:24586966)
Length:	273668.173 m		

Loop 73

From	To	dX[m]	dY[m]	dZ[m]
K16	G15	-1948.411	1770.425	876.358
G15	COST	56662.323	81872.366	-89589.750
COST	K16	-54713.907	-83642.794	88713.388

X:	0.005 m	W-Test:	0.25
Y:	-0.003 m		-0.22
Z:	-0.004 m		-0.16
Easting:	-0.005 m	W-Test:	-0.33
Northing:	-0.005 m		-0.23
Height:	0.000 m		-0.02
Closing error:	0.007 m	(0.0 ppm)	Ratio: (1:37229471)
Length:	270355.579 m		

Loop 74

From	To	dX[m]	dY[m]	dZ[m]
K8	B7	74.995	-1456.536	611.152
B7	COST	54831.438	87922.456	-90809.709
COST	K8	-54906.423	-86465.919	90198.582

X:	0.009 m	W-Test:	0.24
Y:	0.001 m		0.06
Z:	0.025 m		0.45
Easting:	-0.003 m	W-Test:	-0.12

Northing:	0.011 m		0.25
Height:	0.023 m		0.51
Closing error:	0.026 m	(0.1 ppm)	Ratio: (1:10495034)
Length:	275841.282 m		

DESCRIEREA TOPOGRAFICA A PUNCTULUI G100

Coordonate geografice	Φ°'"	λ°'"	H elipsoidal
Sistem ETRS '89	45° 18' 27.00357" N	28° 09' 24.02580" E	66.613
Coordonate carteziene	X cartezian (m)	Y cartezian (m)	Z cartezian (m)
Sistem ETRS '89	3961660.761	2120368.386	4511495.509
Coordonate	X (m)	Y (m)	Z (m) M.N. 1975
Sistem Stereografic 1970	427958.114	747592.921	34.892
Metoda de determinare	GNSS (static)		
Precizia de determinare	0.019m	0.014m	0.033m

Descrierea punctului

Punctul G100 a fost determinat in coltul gardului de lemn de la intersectia strazilor Concordiei si Gloriei, din localiatatea Jijila. Punctul se afla in nord-estul intersectiei.



Executant:

SC T.D.E TERRITORIAL DATA ELABORATION SRL

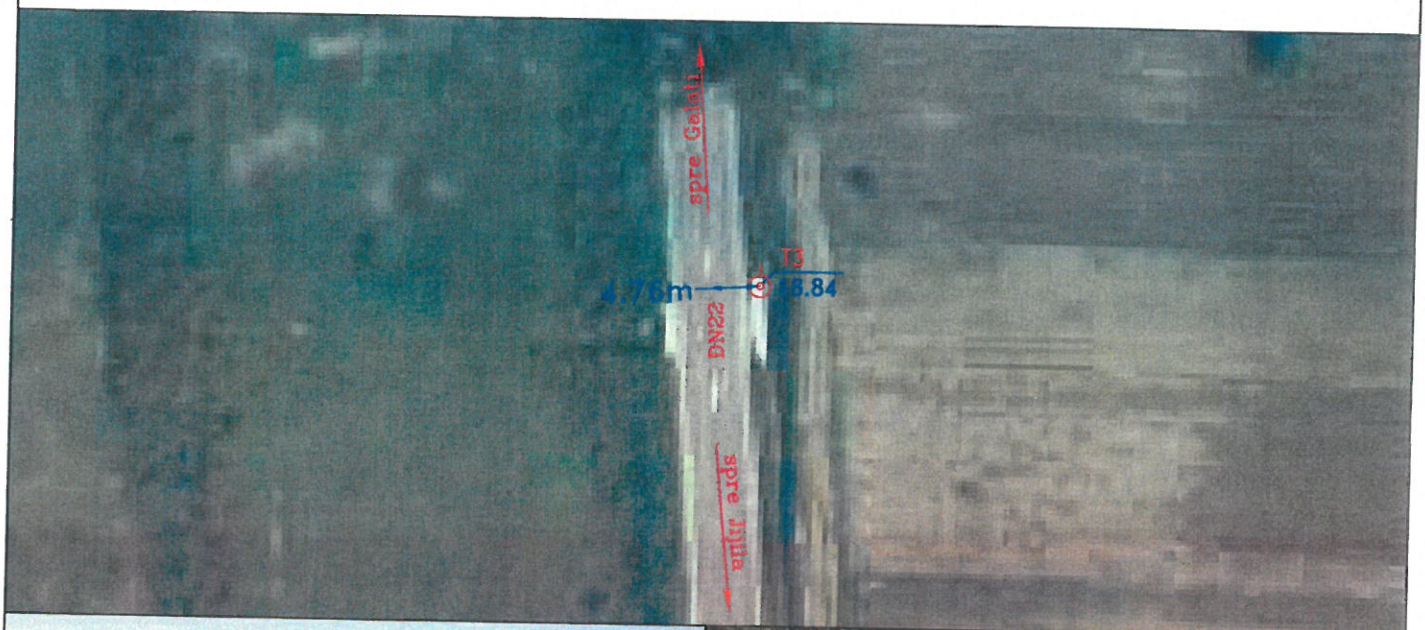
Data: IULIE 2015

DESCRIEREA TOPOGRAFICA A PUNCTULUI T3

Coordonate geografice	Φ°'"	λ°'"	H elipsoidal
Sistem ETRS '89	45° 19' 29.07249" N	28° 09' 06.06002" E	50.497
Coordonate carteziene	X cartezian (m)	Y cartezian (m)	Z cartezian (m)
Sistem ETRS '89	3960634.205	2119375.176	4512831.503
Coordonate	X (m)	Y (m)	Z (m) M.N. 1975
Sistem Stereografic 1970	429857.703	747126.406	18.844
Metoda de determinare	GNSS (static)		
Precizia de determinare	0.009m	0.007m	0.018m

Descrierea punctului

Punctul T3 se afla in nordul localitatii Jijila, in coltul nord-vestic al timpanului din partea de est a podetului, la o distanta de aprox. 5m de axul Drumului National 22.







Executant:

SC T.D.E TERRITORIAL DATA ELABORATION SRL

CERTIFICAT DE AUTORIZARE Seria RO-B-F Nr. 06355 SORIN MUSAT CATEGORIA A

Data: IULIE 2015

DESCRIEREA TOPOGRAFICA A PUNCTULUI T19

Coordonate geografice	Φ°'"	λ°'"	H elipsoidal
Sistem ETRS '89	45° 18' 39.95829" N	28° 08' 40.20602" E	35.818
Coordonate carteziene	X cartezian (m)	Y cartezian (m)	Z cartezian (m)
Sistem ETRS '89	3961841.333	2119382.377	4511754.883
Coordonate	X (m)	Y (m)	Z (m) M.N. 1975
Sistem Stereografic 1970	428320.265	746623.224	4.097
Metoda de determinare	GNSS (static)		
Precizia de determinare	0.009m	0.006m	0.017m

Descrierea punctului

Punctul T19 se afla in nord-vestul localitatii Jijila. Acesta a fost determinat in coltul sud-vestic al gardului metalic cu fundatie de beton ce delimiteaza un rezervor.







Executant:

SC T.D.E TERRITORIAL DATA ELABORATION SRL

CERTIFICAT DE AUTORIZARE Seria RIO-B-F Nr. 0635 SORIN MUȘAT CATEGORIA A

Data: IULIE 2015

DESCRIEREA TOPOGRAFICA A PUNCTULUI K21

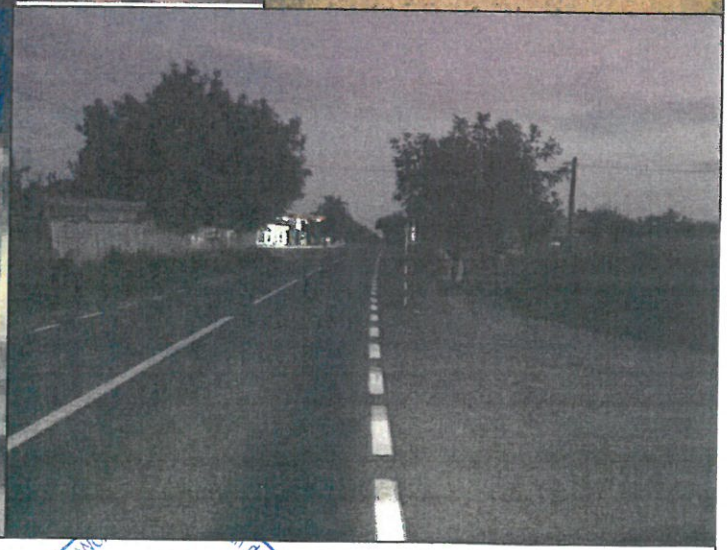
Coordonate geografice	• ••••••	•••••••	H elipsoidal
Sistem ETRS '89	•••••••••••••••••	•••••••••••••••	••••• ••40.462 ••••••
Coordonate carteziene	X cartezian (m)	Y cartezian (m)	Z cartezian (m)
Sistem ETRS '89	3961511.128	2119544.889	4511973.584
Coordonate	X (m)	Y (m)	Z (m) M.N. 1975
Sistem Stereografic 1970	428638.116	746910.068	8.757
Metoda de determinare	GNSS (static)		
Precizia de determinare	0.016m	0.013m	0.029m

Descrierea punctului

Punctul K21 este materializat prin bulon metalic si se afla la intersectia DN22 cu un drum de exploatare, la iesire din localitatea Jijila, spre Galati, la aprox. 25m sud de fanatana.







Executant:

SC T.D.E TERRITORIAL DATA ELABORATION SRL

Data: IULIE 2015

DESCRIEREA TOPOGRAFICA A PUNCTULUI K11

Coordonate geografice	[illegible]	[illegible]	H elipsoidal
Sistem ETRS '89	[illegible]	[illegible]	[illegible] 35.187 [illegible]
Coordonate carteziene	X cartezian (m)	Y cartezian (m)	Z cartezian (m)
Sistem ETRS '89	3963484.248	2118274.283	4510837.498
Coordonate	X (m)	Y (m)	Z (m) M.N. 1975
Sistem Stereografic 1970	426948.848	744923.431	3.402
Metoda de determinare	GNSS (static)		
Precizia de determinare	0.016m	0.012m	0.027m

Descrierea punctului

Punctul K11 este materializat prin tarus de lemn si se afla pe marginea unui drum de exploatare, pe limita a doua culturi de grau respectiv floarea soarelui, in apropiere de localitatea Jijila.







Executant:

SC T.D.E TERRITORIAL DATA ELABORATION SRL

CERTIFICAT DE AUTORIZARE Seria RO-B-F Nr. 0335 SORIN MUSAT CATEGORIA A

Data: IULIE 2015