ORKUSTOFNUN

Landmælingar

N O R Ð U R L Í N A

Lega og hæð stöðva í línustæði (breytingar).

Janúar 1975

B Y G G Ð A L Í N A

Lega og hæð stöðva í línustæði, (breytingar).

Inngangur

Vorið og sumarið 1974 voru gerðar allmiklar breytingar á línustæðinu, og verður hér fjallað um þær. Um það sem óbreytt er, vísa ég til skýrslunnar frá í fyrra.
Breytingarnar voru flestar gerðar að frumkvæði Náttúruverndarráðs, og vegna ýmissa vankanta á línustæðinu (sbr. Viðauka II í fyrri skýrslu). Guðmundur Hannesson valdi línustæðið og hafði umsjón með verkinu. Sjálfar mælingarnar voru unnar á vegum Orkustofnunar, og voru Finnbogi Jónsson, Sigurjón Páll Ísaksson og Þórhallur Ólafsson ráðnir til að sjá um þær.
Wild RDS mælitæki voru notuð.

Lega línustæðisins

Helstu breytingar á línustæðinu eru þessar:
a) Í Leirársveit er línan færð austur fyrir Beitistaði, og er endinn u.þ.b. austur af Læk, (HL lína).
b) Frá Auðunarstöðum fer línan að Gljúfurá, þaðan að Þingeyrum, yfir Leirana við suðurenda Húnavatns og að Laxárvatnsvirkjun. Frá virkjuninni austur yfir hálsinn, inn Langadal að vestanverðu (svokallaða Bakásaleið), og yfir Blöndu gegnt Finnstungu.
c) Á austurbakka Sæmundarár beygir línan til vinstri, og færist því norðar á þessum stað, þ.e. lengra frá minnisvarða Stephans G. Hún endar undir Skagafjarðarlínu, sunnan vegar, ofan við Víðimýri.
Aðrar breytingar eru smávægilegri.

Umferðarstefna og punktar utan línu

Rétt er að leggja áherslu á að umferðarstefna er sú sama í allri línunni, þ.e. frá Suðurlandi til Norðurlands, hvort sem mælt er

norður eða suður. Hægri og vinstri miðast því ávallt við að horft sé norður eftir línustæðinu, í stefnu vaxandi línulengdar.

Til mælingar á hliðarhalla voru teknir hliðarpunktar 5m utan línu, ekki 7m eins og gert var í fyrra. Þeir eru auðkenndir í mælibókum með stöfunum VP eða HP, eftir því hvort punkturinn er vinstra eða hægra megin línunnar.

Til mælingar á stefnu þverana (raf- og símalína, vega, skurða o.fl.) voru teknir stefnupunktar utan línu.
Fyrst var tekinn venjulegur mælipunktur í skurðpunkti þverunarinnar, og lárétti gráðuboginn stilltur á $0{,}00^{g}$ ef horft var norður (en $200{,}00^{g}$ ef horft var suður). Síðan var tekinn stefnupunktur utan línu, og lesin fjarlægð og lárétt horn. Þá er auðvelt að teikna stefnu þverunarinnar. Mælingin verður því nákvæmari sem lengra er á milli þessara tveggja punkta.

Hornpunktar

Í töflu I er að finna skrá yfir hornpunkta í línunni. Gefið er nafn punkts, stefnubreyting (pósitíf til hægri, negatíf til vinstri), línulengd í punktinum og lausleg staðarlýsing.
Hornin eru gefin upp í nýgráðum.

Línulengdir

Línulengdin vex frá 10891 m í Leirársveit, að 186925 m í miðju aðveitustöðvar við Laxárvatnsvirkjun (FL003). Í þeim punkti breytist línulengdin í 1501 m, og vex hún í átt til Varmahlíðar, og er 42382 m þar sem Byggðalínan endar undir Skagafjarðarlínu. Vegna þess að þeir bútar línunnar sem breytt var, eru ekki jafn langir og þeir kaflar sem falla úr í staðinn, þá stemmir km-talan í sumum hornunum ekki nákvæmlega saman. Í töflu I eru gefnar upp 2 km-tölur fyrir þessa hornpunkta. Fyrri km-talan staðsetur hornið í prófílnum sunnan þess og sú síðari gefur línulengdina í næsta prófíl fyrir norðan. Heildarlengd þess sem búið er að mæla er 216,204 km.

Mælistöðvar

Skrá yfir mælistöðvar er að finna í töflu II, sem er úttak úr tölvu, IBM 1620, samkvæmt forriti GTREDU.

Mælibækur

Niðurstöður mælinga er að finna í 15 mælibókum, og hefur línulengd og hæð verið reiknuð og skráð þar fyrir hvern mælipunkt. Bækurnar eru númeraðar 32 – 46.

Aðveitustöðvar

Þrjú stæði fyrir aðveitustöðvar voru tachymetermæld, en þeirri fjórðu hefur enn ekki verið valinn staður.
a) Í Andakíl í km 36,377, en það er á sléttum mel skammt norðan Andakílsár, 27 m norðan við BH204. Sennilega er mjög grunnt á klöpp þar. (Sjá fremst í 36. bók).
b) Við Laxárvatnsvirkjun skammt austan við stöðvarhúsið, nánar tiltekið í FL003. Þar er þurrkuð mýri og röskir 2 m á fast. (Sjá 46. bók). Milli aðveitustöðva a) og b) eru 149,897 km.
c) Við Víðimýri í Skagafirði þar sem Skagafjarðarlína og Byggðalína koma saman (í XG021). Þar er gróinn melur. Þarna verða sennilega rofar en ekki spennistöð. (Sjá í miðri 45. bók). Milli aðveitustöðva b) og c) eru 40,832 km.
d) Fyrir botni Hrútafjarðar verður í framtíðinni sett aðveitustöð vegna fyrirhugaðrar háspennulínu handa Vestfirðingum og Dalamönnum. Þessari stöð hefur enn ekki verið valinn staður.

Aukalína

Innan við Ártún í Blöndudal kom fram stutt aukalína vegna breytingar (FL108 – HS093). Hún verður ekki notuð, en tölvuúttakið er á bls. 24.

Athugasemdir

a) Æskilegt er að raflínuþveranir sunnan aðveitustöðvar í Andakíl verði mældar áður en sá kafli verður staursettur. Raflínu-

þveranir á að mæla áður en staursetning fer fram, eða a.m.k. hæð strengja í skurðpunktinum.

b) Vegna náttúruverndar er æskilegt að rækileg könnun verði gerð á því hvort ekki sé hægt að hanna Byggðalínuna þannig, að hún geti komið að notum sem flutningslína fyrir hugsanlega Blönduvirkjun; t.d. með því að auka flutningsgetu hennar á kaflanum frá Blöndu að Laxárvatni, eða á kaflanum frá Blöndu að Víðimýri, eða hvorttveggja. Með því móti væri hægt að komast af með eina línu á þessum kafla í stað tveggja.

c) Sjá fyrri skýrslu, Viðauka II, 1. atriði.

Tafla I, Hornpunktar

Hæll	Horn (nýgr.)	Línulengd (m)	Staðarlýsing
HL044	(endi)	10.891	Skammt austur af Læk í Leirársveit
HL001	53,34^{g}	19.146	Sunnan við Hafnará í Melasveit
- - -			Sjá HH8 og BH279 í fyrri skýrslu
IL003	-10,20^{g}	33.945	Skammt suður af Innri-Skeljabrekku
IL001	-35,33^{g}	34.210 34.221	Á svipuðum stað
- - -			Sjá BH181 í fyrri skýrslu
AL030	-27,34^{g}	55.095 55.210	Um 1 km vestan við Brekkukot
AL013	-22,26^{g}	59.064	Milli Síðumúla og Síðumúlaveggja
BH089	5,84^{g}	61.694	Sunnan Örnólfsdalsár við Norðtungu
EL009	33,96^{g}	70.437	Ofan við Hafþórsstaði í Norðurárdal
EL001	25,52^{g}	72.417 72.648	Ofan við Hól í Norðurárdal
- - -			Sjá GR0 í fyrri skýrslu
BL001	34,97^{g}	84.690	Á móts við Fornahvamm
BL017	-11,86^{g}	88.173	Ofarlega í austurhlíð dalsins, innar
BL042	-48,15^{g}	92.698 92.958	Í Heiðarsporði vestan Norðurár
CL069	19,08^{g}	109.644	Um 1 km NNV við Grænumýrartungu
HR036	(-9,77^{g})	116.042 116.081	Skammt norðan við Staðarskála
- - -			Sjá HR60 til NS338 í fyrri skýrslu
DL001	-23,17^{g}	166.703 166.709	Vestan Gljúfurár, sunnan vegar
DL035	21,09^{g}	174.867	Á vesturbakka Hnausakvíslar
DL086	35,07^{g}	186.325	Um 400 m vestan Laxárvatnsvirkjunar
FL003	0,00^{g}	186.925 1.501	Ekki horn; miðja aðveitustöðvar
FL009	(70,13^{g})	2.763	Um 1,5 km austur af stöðvarhúsi
FL037	-11,66^{g}	8.766	Gegnt Holtastöðum í Langadal
FL067	9,03^{g}	14.990	Um 500 m innan við bæinn Ása

Framhald á næstu síðu

Hæll	Horn (nýgr.)	Línulengd (m)	Staðarlýsing
FL100	-48,09^{g}	22.070	Á vesturbakka Blöndu
FL101	-46,32^{g}	22.339	Á Lynghólma austan Blöndu
SL001	43,97^{g}	23.633	Um 500 m innan við Ártún í Blöndudal
SL010	17,32^{g}	24.980 25.028	Um 2 km inn af Ártúnum
- - -			Sjá HS126 í fyrri skýrslu
HS158	-38,90^{g}	38.583	Á austurbakka Sæmundarár
XG009	46,44^{g}	40.446	Um 1 km SSA af Fjalli í Sæmundarhlíð
XG021	(endi) 90,44^{g}	42.382	Undir Skagafjarðarlínu Stefna Skagafj.l. til Akureyrar
Aukalína			
FL109B	45,28^{g}	23.793	Inn af Ártúnum í Blöndudal
HS093	16,04^{g}	24.721	U.þ.b. 1 km innar

Horn sem eru í sviga, eru reiknuð (ekki mæld).

Tafla II, Mælistöðvar

Skrá yfir mælistöðvar er á bls. 08 – 24. Þeir bútar sem breytt var eru sundurlausir, og eru víða í línustæðinu. Til þess að fá samfellt yfirlit um línustæðið vísa ég til þeirra kafla sem haldast óbreyttir, og finna má í töflu III í fyrri skýrslu.

Línubútur	Bls. hér	Bls. í fyrri skýrslu
HH023-HL044 (HL-lína)	08 - 09	
(BH220-HH023)		12 - 15
BH215-BH220 (IL-lína)	10	
(BH123-BH215)		10 - 12
BH089-BH123 (AL-lína)	11	
(EL009-BH089)		08 - 09
GR032-EL009 (EL-lína)	12	
(GR0-GR032)		07
(GR0-NS020)		18
NS020-ZZ003 (BL-lína)	13	
(ZZ003-ZZ044)		22 - 23
ZZ044-HR036 (CL-lína)	14 - 15	
(HR036-NS401)		25 - 31
NS401-FL003 (DL-lína)	16 - 18	
FL003-FL108 (FL-lína)	19 - 21	
FL108-HS095 (SL-lína)	22	
(HS095-HS158)		37 - 39
HS158-XG021 (XG-lína)	23	
FL108-HS093 (Aukalína)	24	

DISTANCE	DIFF/M	ANGLE	S-1	DIFF/C		NAME	LENGTH	ELEVATION
19247.0	45.54					HH023	19247.0	45.54
0.0	0.00							
101.0	-1.50	10097.0	0.0	-1.53	-	HL001	19146.0	47.07
234.0	4.70	9875.0	0.0	4.59		HL002	18912.0	51.67
127.0	-.80	9988.0	1.0	-.76	-	HL003	18785.0	52.43
199.0	2.40	9923.0	0.0	2.40		HL004	18586.0	54.84
136.0	-2.50	10115.0	0.0	-2.45	-	HL005	18450.0	57.29
257.0	4.00	9901.0	0.0	3.99		HL007	18193.0	61.29
250.0	1.90	9953.0	0.0	1.84	-	HL008	17943.0	59.45
201.0	-4.10	10130.0	0.0	-4.10		HL009	17742.0	55.34
189.0	.90	9970.0	0.0	.89	-	HL010	17553.0	54.45
206.0	1.30	9960.0	0.0	1.29		HL011	17347.0	55.74
144.0	-.40	10031.0	0.0	-.70	*-	HL012	17203.0	56.44
224.0	1.60	9955.0	0.0	1.58		HL014	16979.0	58.03
79.0	-1.50	9963.0	2.0	-1.54	-	HL015	16900.0	59.57
178.0	.60	9907.0	2.0	.60		HL016	16722.0	60.17
95.0	.70	9957.0	0.0	.64	-	-	16627.0	59.53
64.0	-2.10	10006.0	2.0	-2.06		HL017	16563.0	57.47
187.0	-.60	9985.0	1.0	-.55	-	HL018	16376.0	58.03
124.0	2.10	9841.0	1.0	2.09		HL019	16252.0	60.12
77.0	-4.50	10283.0	1.0	-4.42	-	HL021	16175.0	64.55
286.0	9.10	9799.0	0.0	9.03		HL022	15889.0	73.58
111.0	-5.40	10312.0	0.0	-5.44	-	HL023	15778.0	79.03
154.0	2.60	9892.0	0.0	2.61		HL024	15624.0	81.64
457.5	10.80	9849.0	0.0	10.85	-	HL026	15166.5	70.79
247.0	-5.20	10133.0	0.0	-5.16		HL027	14919.5	65.63
293.0	3.70	9919.0	0.0	3.72	-	HL028	14626.5	61.90
283.0	.70	9986.0	0.0	.62		HL030	14343.5	62.52
282.5	1.50	9966.0	0.0	1.50	-	HL031	14061.0	61.01
204.0	-2.50	10078.0	0.0	-2.49		HL032	13857.0	58.51
152.0	7.60	9685.0	0.0	7.52	-	HL033	13705.0	50.98
260.0	-8.60	10208.0	0.0	-8.49		HL034	13445.0	42.49
155.0	5.50	9776.0	0.0	5.45	-	HL035	13290.0	37.03
281.0	-9.00	10206.0	0.0	-9.09		HL036	13009.0	27.93
317.0	6.90	9863.0	0.0	6.82	-	HL037	12692.0	21.11
357.0	-6.20	10111.0	0.0	-6.22		HL038	12335.0	14.89
271.0	.90	9979.0	0.0	.89	-	HL039	12064.0	13.99
201.0	5.00	9844.0	0.0	4.92		HL040	11863.0	18.92
260.0	1.30	9969.0	0.0	1.26	-	HL041	11603.0	17.65
163.5	7.00	9728.0	0.0	6.98		HL042	11439.5	24.64

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
292.0	10.00	9782.0	0.0	10.00	- HL043	11147.5	14.64
257.0	4.20	9894.0	0.0	4.27	HL044	10890.5	18.92

DISTANCE	DIFF/M	ANGLE	S-1	DIFF/C	NAME	LENGTH	ELEVATION
34290.5	26.76				BH215	34290.5	26.76
425.5	-.11						
81.0	-9.00	10700.0	0.0	-8.94	- IL001	34209.5	35.68
102.0	7.70	9522.0	0.0	7.67	IL002	34107.5	43.32
162.5	-18.50	10717.0	0.0	-18.37	- IL003	33945.0	61.66
80.0	.40	9972.0	0.0	.35	BH220	33865.0	61.99

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
61694.0	37.39					BH089	61694.0	37.39
6553.0	-.10							
244.0	-14.00	10365.0	0.0	-14.00	-	AL001	61450.0	51.39
298.0	9.80	9791.0	0.0	9.78		AL002	61152.0	61.17
173.0	-4.60	10160.0*	0.0	-4.34	*-	AL003	60979.0	65.51
253.0	-5.40	10137.0	0.0	-5.44		AL004	60726.0	60.07
260.0	4.10	9901.0	0.0	4.04	-	AL005	60466.0	56.02
212.0	5.90	9823.0	0.0	5.89		AL006	60254.0	61.91
154.5	-14.20	10584.0	0.0	-14.21	-	AL007	60099.5	76.12
108.0	12.20	0.0	0.0	12.20	*	AL008	59991.5	88.32
145.0	.30	9986.0	0.0	.31	-	AL009	59846.5	88.00
297.0	10.90	9768.0	0.0	10.82		AL010	59549.5	98.82
125.5	2.40	9878.0	0.0	2.40	-	AL011	59424.0	96.41
227.0	-15.80	10442.0	0.0	-15.78		AL012	59197.0	80.63
133.0	14.00	9333.0	0.0	13.98	-	AL013	59064.0	66.64
217.0	-12.60	10370.0	0.0	-12.62		AL014	58847.0	54.01
238.0	10.90	9705.0	0.0	11.03	-	AL015	58609.0	42.97
224.5	-2.30	10068.0	0.0	-2.39		AL016	58384.5	40.57
255.0	6.20	9850.0	0.0	6.00	-	AL017	58129.5	34.55
258.0	-1.10	10023.0	0.0	-.93		AL018	57871.5	33.62
248.0	.40	9993.0	0.0	.27	-	AL019	57623.5	33.34
249.0	-2.00	10050.0	0.0	-1.95		AL020	57374.5	31.38
213.0	.20	9997.0	0.0	.10	-	AL021	57161.5	31.28
129.0	-1.40	10070.0	0.0	-1.41		AL022	57032.5	29.86
280.5	4.70	9894.0	0.0	4.67	-	AL024	56752.0	25.18
253.0	3.30	9923.0	0.0	3.06	*	AL025	56499.0	28.24
276.5	-6.70	10153.0	0.0	-6.64	-	AL026	56222.5	34.88
280.0	.80	9983.0	0.0	.74		AL027	55942.5	35.62
262.0	-2.50	10060.0	0.0	-2.46	-	AL028	55680.5	38.09
222.0	-.60	10019.0	0.0	-.66		AL029	55458.5	37.42
249.0	1.70	9957.0	0.0	1.68	-	AL030	55209.5	35.74
68.5	-.80	10071.0	0.0	-.76		BH123	55141.0	34.97

* Ætti að vera 10166.0. Við það breytist DIFF/C í -4.51.

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
72560.0	136.18					GR032	72560.0	136.18
2405.5	-.10							
143.0	-.40	10018.0	0.0	-.40	-	EL001	72417.0	136.57
295.0	-2.10	10045.0	0.0	-2.08		EL002	72122.0	134.48
250.0	-.30	10005.0	0.0	-.19	-	EL003	71872.0	134.66
190.5	4.50	9852.0	0.0	4.42		EL004	71681.5	139.08
214.0	2.20	9922.0	0.0	2.62	*-	EL005	71467.5	136.45
222.0	-.80	10022.0	0.0	-.76		EL006	71245.5	135.68
240.0	3.50	9909.0	0.0	3.43	-	EL007	71005.5	132.24
350.5	-4.30	10078.0	0.0	-4.29		EL008	70655.0	127.93
218.5	-4.20	10122.0	0.0	-4.18	-	EL009	70436.5	132.10
282.0	-10.80	10245.0	0.0	-10.85		-	70154.5	121.24

DISTANCE	DIFF/M	ANGLE	S-1	DIFF/C		NAME	LENGTH	ELEVATION
84520.0	215.06					NS020	84520.0	215.06
8382.5	.13							
170.0	-.90	10033.0	0.0	-.88	-	BL001	84690.0	215.94
85.0	5.70	9580.0	0.0	5.61		BL002	84775.0	221.56
228.0	-18.00	10500.0	0.0	-17.94	-	BL003	85003.0	239.50
158.0	9.00	9635.0	0.0	9.06		BL004	85161.0	248.57
315.0	-15.20	10305.0	0.0	-15.10	-	BL005	85476.0	263.68
305.5	10.40	9787.0	0.0	10.22		BL006	85781.5	273.91
328.0	-9.20	10180.0	0.0	-9.27	-	BL008	86109.5	283.19
297.0	1.70	9963.0	0.0	1.72		BL009	86406.5	284.92
223.5	-5.70	10162.0	0.0	-5.68	-	BL010	86630.0	290.62
223.0	6.70	9807.0	0.0	6.76		BL011	86853.0	297.38
122.0	.70	9962.0	0.0	.72	-	BL012	86975.0	296.66
314.0	-7.00	10141.0	0.0	-6.95		BL013	87289.0	289.71
159.0	-.30	10010.0	0.0	-.24	-	BL014	87448.0	289.96
226.5	-4.50	10128.0	0.0	-4.55		BL015	87674.5	285.41
240.5	-3.50	10092.0	0.0	-3.47	-	BL016	87915.0	288.89
258.0	2.10	9950.0	0.0	2.02		BL017	88173.0	290.92
90.0	2.90	9794.0	0.0	2.91	-	BL018	88263.0	288.00
262.5	-9.90	10236.0	0.0	-9.73		BL019	88525.5	278.27
229.0	5.50	9846.0	0.0	5.54	-	BL020	88754.5	272.74
234.0	-6.30	10166.0	0.0	-6.10		BL021	88988.5	266.64
216.5	9.50	9722.0	0.0	9.46	-	BL023	89205.0	257.18
335.5	-25.60	10487.0	0.0	-25.71		BL024	89540.5	231.47
136.5	5.20	9757.0	0.0	5.21	-	BL025	89677.0	226.26
235.0	-4.40	10121.0	0.0	-4.46		BL026	89912.0	221.80
191.0	2.40	9920.0	0.0	2.40	-	BL027	90103.0	219.40
180.0	-1.20	10043.0	0.0	-1.21		BL028	90283.0	218.19
297.0	.70	9985.0	0.0	.69	-	BL030	90580.0	217.49
295.0	8.70	9814.0	0.0	8.62		BL032	90875.0	226.12
267.0	1.90	9956.0	0.0	1.84	-	BL033	91142.0	224.28
360.0	12.90	9773.0	0.0	12.84		BL035	91502.0	237.12
375.5	-21.30	10361.0	0.0	-21.31	-	BL037	91877.5	258.44
194.0	7.40	9758.0	0.0	7.37		BL038	92071.5	265.83
215.0	11.00	9677.0	0.0	10.91	-	BL039	92286.5	254.91
204.0	5.20	9838.0	0.0	5.19		BL040	92490.5	260.11
207.0	-1.30	10041.0	0.0	-1.33	-	BL042	92697.5	261.44
205.0	7.90	9757.0	0.0	7.82		ZZ003	92902.5	269.27

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
103199.0	264.13					ZZ044	103199.0	264.13
12842.5	-.60							
301.0	4.00	9917.0	0.0	3.92	-	CL045	103500.0	260.19
148.5	-2.20	10095.0	0.0	-2.21		CL046	103648.5	257.96
301.0	7.20	9848.0	0.0	7.18	-	CL047	103949.5	250.76
287.0	-6.40	10143.0	0.0	-6.44		CL048	104236.5	244.30
264.5	5.90	9859.0	0.0	5.85	-	CL049	104501.0	238.43
368.0	-6.20	10109.0	0.0	-6.30		CL050	104869.0	232.11
327.0	8.00	9850.0	0.0	7.70	*-	CL051	105196.0	224.39
212.5	-1.00	10033.0	0.0	-1.10		CL052	105408.5	223.28
251.0	.90	9979.0	0.0	.82	-	CL053	105659.5	222.44
146.0	-.10	10005.0	0.0	-.11		CL054	105805.5	222.32
277.0	7.00	9842.0	0.0	6.87	-	CL055	106082.5	215.43
268.0	-7.20	10170.0	0.0	-7.15		CL056	106350.5	208.26
312.0	10.50	9786.0	0.0	10.49	-	CL057	106662.5	197.75
263.0	-5.70	10139.0	0.0	-5.74		CL058	106925.5	191.99
264.0	13.70	9673.0	0.0	13.57	-	CL059	107189.5	178.41
268.0	-17.40	10413.0	0.0	-17.41		CL060	107457.5	160.99
167.0	8.00	9701.0	0.0	7.84	-	CL061	107624.5	153.13
254.5	-10.40	10261.0	0.0	-10.43		CL062	107879.0	142.68
355.0	20.50	9639.0	0.0	20.15	*-	CL063	108234.0	122.51
320.0	-14.60	10292.0	0.0	-14.68		CL064	108554.0	107.81
198.5	1.10	9966.0	0.0	1.06	-	CL065	108752.5	106.74
217.0	-9.70	10286.0	0.0	-9.75		CL066	108969.5	96.97
239.5	11.10	9706.0	0.0	11.06	-	CL067	109209.0	85.89
289.0	-.40	10008.0	0.0	-.36		CL068	109498.0	85.52
146.0	-.70	10031.0	0.0	-.71	-	CL069	109644.0	86.22
144.0	-10.90	10483.0	0.0	-10.94		CL070	109788.0	75.27
190.0	15.70	9474.0	0.0	15.73	-	CL071	109978.0	59.52
136.0	-8.00	10373.0	0.0	-7.97		CL072	110114.0	51.54
175.0	10.20	9593.0	0.0	11.20	*-	CL073	110289.0	40.33
116.5	-2.20	10122.0	0.0	-2.23		CL074	110405.5	38.09
154.0	1.20	9952.0	0.0	1.16	-	CL075	110559.5	36.92
230.5	-2.30	10066.0	0.0	-2.38		CL076	110790.0	34.52
365.0	0.00	10003.0	0.0	-.17	-	CL077	111155.0	34.68
284.5	1.50	9965.0	0.0	1.56		CL078	111439.5	36.23
305.0	.50	9980.0	0.0	.95	*-	CL080	111744.5	35.25
467.0	5.80	9921.0	0.0	5.79		CL081	112211.5	41.03
272.0	.70	9983.0	0.0	.72	-	CL082	112483.5	40.29
241.0	1.60	9960.0	0.0	1.51		CL083	112724.5	41.79

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
149.0	-4.30	10186.0	0.0	-4.35	- CL084	112873.5	46.14
232.0	-13.30	10365.0	0.0	-13.31	CL085	113105.5	32.81
216.5	3.50	9896.0	0.0	3.53	- CL086	113322.0	29.27
143.0	-6.00	10270.0	0.0	-6.06	CL087	113465.0	23.19
250.0	10.00	9745.0	0.0	10.01	- CL088	113715.0	13.16
251.0	-1.70	10043.0	0.0	-1.69	CL089	113966.0	11.45
257.0	3.30	9920.0	0.0	3.22	- CL090	114223.0	8.21
258.0	-1.80	10044.0	0.0	-1.78	CL091	114481.0	6.41
281.0	1.60	9965.0	0.0	1.54	- CL092	114762.0	4.86
244.5	1.40	9965.0	0.0	1.34	CL093	115006.5	6.19
428.0	-.40	10005.0	0.0	-.33	- CL094	115434.5	6.51
207.0	8.70	9732.0	0.0	8.71	CL095	115641.5	15.22
138.0	-1.30	10060.0	0.0	-1.30	- CL096	115779.5	16.51
262.0	4.80	9883.0	0.0	4.81	HR036	116041.5	21.31

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
166657.5	67.56					NS401	166657.5	67.56
20267.0	.15							
51.0	0.00	9997.0	0.0	.02	-	DL001	166708.5	67.53
281.0	-1.40	10033.0	0.0	-1.45		DL002	166989.5	66.08
257.0	3.30	9917.0	0.0	3.35	-	DL003	167246.5	62.73
237.0	-1.40	10038.0	0.0	-1.41		DL004	167483.5	61.31
247.0	3.10	9919.0	0.0	3.14	-	DL005	167730.5	58.17
189.5	-6.30	10212.0	0.0	-6.31		DL006	167920.0	51.86
79.0	3.00	9756.0	0.0	3.02	-	DL007	167999.0	48.83
201.0	-5.70	10180.0	0.0	-5.68		DL009	168200.0	43.15
318.0	6.20	9878.0	0.0	6.09	-	DL010	168518.0	37.06
179.0	-2.30	10084.0	0.0	-2.36		DL011	168697.0	34.70
272.0	4.30	9898.0	0.0	4.35	-	DL012	168969.0	30.34
228.0	-1.50	10043.0	0.0	-1.54		DL013	169197.0	28.80
232.0	-.50	10012.0	0.0	-.43	-	DL014	169429.0	29.24
257.0	1.70	9959.0	0.0	1.65		DL015	169686.0	30.90
245.0	.60	9984.0	0.0	.61	-	DL016	169931.0	30.28
271.0	-2.70	10062.0	0.0	-2.63		DL017	170202.0	27.65
257.0	-.80	10017.0	0.0	-.68	-	DL018	170459.0	28.34
282.0	-.20	10004.0	0.0	-.17		DL019	170741.0	28.16
239.0	1.50	9959.0	0.0	1.53	-	DL020	170980.0	26.62
252.0	-.20	10004.0	0.0	-.15		DL021	171232.0	26.47
276.0	1.50	9965.0	0.0	1.51	-	DL022	171508.0	24.95
263.0	-.80	10019.0	0.0	-.78		DL023	171771.0	24.17
244.0	1.40	9960.0	0.0	1.53	-	DL024	172015.0	22.64
237.0	-1.50	10040.0	0.0	-1.48		DL025	172252.0	21.15
232.0	.40	9988.0	0.0	.43	-	DL026	172484.0	20.71
245.0	-.10	10004.0	0.0	-.15		DL027	172729.0	20.56
295.0	2.40	9948.0	0.0	2.40	-	DL028	173024.0	18.15
220.0	-.90	10025.0	0.0	-.86		DL029	173244.0	17.29
256.0	2.90	9926.0	0.0	2.97	-	DL030	173500.0	14.32
228.0	-2.00	10056.0	0.0	-2.00		DL031	173728.0	12.31
330.0	2.70	9947.0	0.0	2.74	-	DL032	174058.0	9.57
307.0	-2.20	10046.0	0.0	-2.21		DL033	174365.0	7.35
273.0	1.60	9962.0	0.0	1.62	-	DL034	174638.0	5.73
229.0	-2.50	10070.0	0.0	-2.51		DL035	174867.0	3.21
317.0	-2.20	10044.0	0.0	-2.19		DL036	175184.0	1.02
163.0	-.40	10016.0	0.0	-.40	-	DL037	175347.0	1.43
272.0	-.30	10007.0	0.0	-.29		DL038	175619.0	1.13
138.0	-.10	10002.0	0.0	-.04	-	DL039	175757.0	1.18
111.0	0.00	10000.0	0.0	0.00		DL040	175868.0	1.18

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
237.5	-.10	10002.0	0.0	-.07	-	DL041	176105.5	1.26
250.0	1.00	9979.0	0.0	.82		DL042	176355.5	2.08
250.5	-.40	10012.0	0.0	-.47	-	DL043	176606.0	2.56
247.0	.30	9993.0	0.0	.27		DL044	176853.0	2.83
245.5	0.00	9995.0	0.0	.19	-	DL045	177098.5	2.64
235.5	.90	9980.0	0.0	.73		DL046	177334.0	3.38
247.0	-3.70	10093.0	0.0	-3.60	-	DL047	177581.0	6.99
243.0	1.80	9956.0	0.0	1.67		DL048	177824.0	8.67
168.0	-.50	10013.0	0.0	-.34	-	DL050	177992.0	9.02
268.0	14.70	9658.0	0.0	14.41	*	DL049	178260.0	23.43
292.0	-12.80	10277.0	0.0	-12.71	-	DL051	178552.0	36.15
372.0	5.50	9906.0	0.0	5.49		DL052	178924.0	41.64
199.0	-3.70	10118.0	0.0	-3.68	-	DL053	179123.0	45.33
223.0	1.50	9957.0	0.0	1.50		DL054	179346.0	46.84
227.0	-1.80	10051.0	0.0	-1.81	-	DL055	179573.0	48.66
234.0	5.80	9842.0	0.0	5.80		DL056	179807.0	54.47
135.0	-1.80	10084.0	0.0	-1.78	-	DL057	179942.0	56.25
245.0	-.90	10022.0	0.0	-.84		DL058	180187.0	55.41
257.0	-.50	10014.0	0.0	-.56	-	DL059	180444.0	55.97
224.0	0.00	9998.0	0.0	.07		DL060	180668.0	56.05
105.0	-.80	10049.0	0.0	-.80	-	DL061	180773.0	56.86
263.0	-1.20	10029.0	0.0	-1.19		DL062	181036.0	55.66
185.0	1.00	9965.0	0.0	1.01	-	DL063	181221.0	54.64
234.0	5.10	9862.0	0.0	5.07		DL064	181455.0	59.72
189.0	-11.60	10392.0	0.0	-11.65	-	DL065	181644.0	71.37
257.0	1.90	9954.0	0.0	1.85		DL066	181901.0	73.23
168.0	-3.00	10113.0	0.0	-2.98	-	DL067	182069.0	76.22
239.0	1.40	9963.0	0.0	1.38		DL068	182308.0	77.61
175.0	-2.10	10078.0	0.0	-2.14	-	DL069	182483.0	79.75
250.0	4.30	9892.0	0.0	4.24		DL070	182733.0	83.99
226.0	6.20	9825.0	0.0	6.21	-	DL071	182959.0	77.78
227.0	-3.60	10102.0	0.0	-3.63		DL072	183186.0	74.15
236.0	3.80	9895.0	0.0	3.89	-	DL073	183422.0	70.26
218.0	-3.70	10111.0	0.0	-3.80		DL074	183640.0	66.46
278.0	-6.50	10151.0	0.0	-6.59	-	DL075	183918.0	73.05
240.0	4.20	9890.0	0.0	4.14		DL076	184158.0	77.20
219.0	-4.90	10113.0	1.0	-4.88	-	DL077	184377.0	82.09
258.0	7.80	9808.0	0.0	7.78		DL078	184635.0	89.88
213.0	-2.30	10010.0	2.0	-2.33	-	DL079	184848.0	92.21
187.0	2.40	9921.0	0.0	2.32		DL080	185035.0	94.54

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
229.0	9.90	9724.0	0.0	9.93	-	DL081	185264.0	84.60
209.0	.60	9986.0	0.0	.45		DL082	185473.0	85.06
297.0	1.50	9970.0	0.0	1.39	-	DL083	185770.0	83.67
176.5	-.90	10034.0	0.0	-.94		DL084	185946.5	82.72
169.0	7.50	9716.0	0.0	7.54	-	DL085	186115.5	75.18
209.0	3.10	9909.0	0.0	2.98		DL086	186324.5	78.17
212.0	1.70	9950.0	0.0	1.66	-	FL001	186536.5	76.51
171.0	1.70	9938.0	0.0	1.66		FL002	186707.5	78.17
217.0	-10.10	10299.0	0.0	-10.19	-	FL003	186924.5	88.38

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
1501.0	88.38					FL003	1501.0	88.38
22017.0	-.39							
207.0	4.40	9865.0	0.0	4.39		FL004	1708.0	92.76
249.5	-3.60	10068.0	1.0	-3.66	-	FL005	1957.5	96.42
199.5	3.70	9883.0	0.0	3.66		FL006	2157.0	100.09
175.0	-14.70	10532.0	0.0	-14.65	-	FL007	2332.0	114.74
223.5	14.80	9578.0	0.0	14.83		FL008	2555.5	129.57
207.5	-19.60	10598.0	0.0	-19.54	-	FL009	2763.0	149.12
169.0	3.50	9864.0	0.0	3.61		FL010	2932.0	152.73
254.0	-3.30	10081.0	0.0	-3.23	-	FL011	3186.0	155.95
249.0	.40	9995.0	0.0	.19	*	FL012	3435.0	156.15
182.0	-1.60	10059.0	0.0	-1.68	-	FL013	3617.0	157.83
271.0	-5.10	10122.0	0.0	-5.19		FL014	3888.0	152.63
229.5	9.70	9732.0	0.0	9.66	-	FL015	4117.5	142.96
250.0	-8.00	10202.0	0.0	-7.93		FL016	4367.5	135.02
182.0	10.20	9611.0	1.0	10.13	-	FL017	4549.5	124.88
183.0	-7.60	10263.0	0.0	-7.56		FL018	4732.5	117.31
176.0	8.10	9708.0	0.0	8.07	-	FL019	4908.5	109.23
251.0	1.10	9976.0	0.0	.94		FL020	5159.5	110.17
186.0	9.30	9682.0	0.0	9.29	-	FL021	5345.5	100.87
146.5	-2.00	10090.0	0.0	-2.07		FL022	5492.0	98.80
89.0	-.60	10047.0	0.0	-.65	-	FL023	5581.0	99.45
186.0	-3.00	10103.0	0.0	-3.00		FL024	5767.0	96.44
184.0	-1.80	10063.0	0.0	-1.82	-	FL025	5951.0	98.26
267.0	2.10	9952.0	0.0	2.01		FL026	6218.0	100.27
259.0	-2.80	10072.0	0.0	-2.92	-	FL027	6477.0	103.19
255.5	5.10	9875.0	0.0	5.01		FL028	6732.5	108.20
216.0	-.80	10026.0	0.0	-.88	-	FL029	6948.5	109.08
257.0	-1.20	10031.0	0.0	-1.25		FL030	7205.5	107.83
191.0	2.00	9932.0	0.0	2.04	-	FL031	7396.5	105.78
131.0	-5.30	10259.0	0.0	-5.33		FL032	7527.5	100.45
110.0	5.40	9687.0	0.0	5.41	-	FL033	7637.5	95.03
267.0	-16.20	10389.0	0.0	-16.33		FL034	7904.5	78.69
311.5	-2.60	10053.0	0.0	-2.59	-	FL035	8216.0	81.28
275.5	-1.40	10010.0	1.0	-1.43		FL036	8491.5	79.84
274.5	2.10	9951.0	0.0	2.11	-	FL037	8766.0	77.73
124.0	-3.70	10190.0	0.0	-3.70		FL038	8890.0	74.02
261.0	-3.70	10092.0	0.0	-3.77	-	FL039	9151.0	77.79
256.0	-.70	10018.0	0.0	-.72		FL040	9407.0	77.06
277.0	-2.40	10058.0	0.0	-2.52	-	FL041	9684.0	79.58
119.0	-1.20	10066.0	0.0	-1.23		FL042	9803.0	78.34

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
263.5	-.80	10021.0	0.0	-.86	-	FL043	10066.5	79.21
247.5	9.30	9762.0	0.0	9.25		FL044	10314.0	88.46
262.0	-10.70	10260.0	0.0	-10.70	-	FL045	10576.0	99.16
127.5	3.00	9801.0	1.0	2.98		FL046	10703.5	102.15
272.0	-1.20	10028.0	0.0	-1.19	-	FL047	10975.5	103.34
276.5	11.80	9728.0	0.0	11.82		FL048	11252.0	115.16
187.0	-7.20	10245.0	0.0	-7.20	-	FL049	11439.0	122.35
171.0	-3.20	10121.0	0.0	-3.25		FL050	11610.0	119.10
277.0	-5.30	10123.0	0.0	-5.35	-	FL051	11887.0	124.45
208.5	13.90	9578.0	0.0	13.84		FL052	12095.5	138.28
201.0	-16.00	10504.0	0.0	-15.94	-	FL053	12296.5	154.23
194.0	13.60	9550.0	0.0	13.73		FL054	12490.5	167.96
144.0	-10.20	10450.0	0.0	-10.19	-	FL055	12634.5	178.15
217.0	1.10	9971.0	0.0	.98		FL056	12851.5	179.14
142.0	-3.90	10174.0	0.0	-3.88	-	FL057	12993.5	183.02
262.0	-1.50	10036.0	0.0	-1.48		FL058	13255.5	181.53
267.0	.20	9996.0	0.0	.16	-	FL059	13522.5	181.36
227.0	-.50	10016.0	0.0	-.57		FL060	13749.5	180.78
225.0	-2.00	10055.0	0.0	-1.94	-	FL061	13974.5	182.72
211.0	8.20	9755.0	0.0	8.12		FL062	14185.5	190.84
213.0	-10.20	10306.0	0.0	-10.24	-	FL063	14398.5	201.09
141.0	4.80	9740.0	1.0	4.76		FL064	14539.5	205.85
274.5	-5.10	10121.0	0.0	-5.21	-	FL065	14814.0	211.06
176.0	6.00	9783.0	0.0	6.00		FL067	14990.0	217.06
249.0	-3.00	10074.0	0.0	-2.89	-	FL068	15239.0	219.95
237.0	2.50	9934.0	0.0	2.45		FL069	15476.0	222.40
167.0	-.50	10020.0	0.0	-.52	-	FL070	15643.0	222.92
244.0	-3.70	10098.0	0.0	-3.75		FL071	15887.0	219.16
254.0	4.10	9898.0	0.0	4.06	-	FL072	16141.0	215.09
274.0	-1.40	10031.0	0.0	-1.33		FL073	16415.0	213.75
245.0	-3.00	10079.0	0.0	-3.04	-	FL074	16660.0	216.78
240.0	6.60	9823.0	0.0	6.67		FL075	16900.0	223.45
236.5	-5.60	10149.0	0.0	-5.53	-	FL076	17136.5	228.99
230.0	5.50	9852.0	0.0	5.34		FL077	17366.5	234.33
230.5	-2.30	10066.0	0.0	-2.38	-	FL078	17597.0	236.71
222.5	-.40	10012.0	0.0	-.41		FL079	17819.5	236.29
242.0	.60	9985.0	0.0	.57	-	FL080	18061.5	235.72
264.5	-.80	10020.0	0.0	-.83		FL081	18326.0	234.88
197.0	.40	9984.0	0.0	.49	-	FL082	18523.0	234.38
240.0	-1.20	10031.0	0.0	-1.16		FL083	18763.0	233.21

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
174.5	1.40	9951.0	0.0	1.34	-	FL084	18937.5	231.86
255.0	-2.20	10056.0	0.0	-2.24		FL085	19192.5	229.62
253.0	1.00	9975.0	0.0	.99	-	FL086	19445.5	228.62
252.0	.50	9988.0	0.0	.47		FL087	19697.5	229.09
240.5	1.30	9963.0	0.0	1.39	-	FL088	19938.0	227.69
193.0	-1.30	10044.0	0.0	-1.33		FL089	20131.0	226.35
263.5	7.00	9831.0	0.0	6.99	-	FL090	20394.5	219.35
229.0	-6.30	10175.0	0.0	-6.29		FL091	20623.5	213.05
181.5	4.90	9831.0	0.0	4.81	-	FL092	20805.0	208.22
185.0	-9.70	10334.0	0.0	-9.71		FL093	20990.0	198.51
236.5	23.00	9382.0	0.0	23.03	-	FL094	21226.5	175.47
231.0	-26.20	10715.0	0.0	-26.05		FL095	21457.5	149.41
86.0	8.60	9374.0	0.0	8.48	-	FL096	21543.5	140.93
97.0	-10.20	10666.0	0.0	-10.18		FL097	21640.5	130.74
148.0	9.00	9615.0	0.0	8.96	-	FL098	21788.5	121.78
158.5	-16.80	10671.0	0.0	-16.76		FL099	21947.0	105.01
123.0	8.00	9586.0	0.0	8.01	-	FL100	22070.0	97.00
269.0	-13.40	10319.0	0.0	-13.49		FL101	22339.0	83.50
156.0	-.40	10017.0	0.0	-.41	-	FL102	22495.0	83.91
248.0	15.70	9597.0	0.0	15.72		FL103	22743.0	99.63
136.0	-23.30	11084.0	0.0	-23.38	-	FL104	22879.0	123.01
78.0	8.70	9289.0	0.0	8.74		FL105	22957.0	131.76
184.0	-1.70	10060.0	0.0	-1.73	-	FL106	23141.0	133.49
265.0	-10.30	10249.0	0.0	-10.37		FL107	23406.0	123.11
112.0	14.20	9199.0	0.0	14.16	-	FL108	23518.0	108.94

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
23518.0	108.94					FL108	23518.0	108.94
1583.5	-.11							
115.0	12.10	9337.0	0.0	12.02	-	SL001	23633.0	96.91
105.0	8.40	9495.0	0.0	8.34		SL002	23738.0	105.25
109.0	-3.20	10189.0	0.0	-3.23	-	SL003	23847.0	108.48
131.0	-3.10	10154.0	0.0	-3.16		SL004	23978.0	105.30
220.5	-.80	10024.0	0.0	-.83	-	SL005	24198.5	106.11
54.0	-.70	10080.0	0.0	-.67		SL006	24252.5	105.43
212.0	.70	9982.0	0.0	.59	-	SL007	24464.5	104.82
216.0	11.80	9656.0	0.0	11.68		SL008	24680.5	116.48
135.0	5.00	9768.0	0.0	4.92	-	SL009	24815.5	111.55
164.0	5.90	9773.0	0.0	5.85	-	SL010	24979.5	105.69
122.0	4.20	9783.0	0.0	4.16		HS095	25101.5	109.84

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
38583.0	236.15					HS158	38583.0	236.15
0.0	0.00							
68.0	-1.20	10119.0	0.0	-1.27		XG001	38651.0	234.87
245.0	11.50	9701.0	0.0	11.51	-	XG002	38896.0	223.36
245.5	-4.70	10123.0	0.0	-4.74		XG003	39141.5	218.61
214.0	6.10	9820.0	0.0	6.05	-	XG004	39355.5	212.56
188.0	-3.60	10125.0	0.0	-3.69		XG005	39543.5	208.87
262.0	6.70	9839.0	0.0	6.62	-	XG006	39805.5	202.24
233.5	-7.40	10202.0	0.0	-7.41		XG007	40039.0	194.83
191.5	2.10	9932.0	0.0	2.04	-	XG008	40230.5	192.79
215.0	-3.70	10109.0	0.0	-3.68		XG009	40445.5	189.10
169.0	-7.40	10281.0	0.0	-7.46	-	XG010	40614.5	196.57
136.0	-.30	10015.0	0.0	-.32		XG011	40750.5	196.25
280.0	4.20	9905.0	0.0	4.17	-	XG013	41030.5	192.07
156.0	-1.40	10058.0	0.0	-1.42		XG014	41186.5	190.65
119.0	7.90	9580.0	0.0	7.86	-	XG015	41305.5	182.79
139.0	-8.30	10379.0	0.0	-8.28		XG016	41444.5	174.50
214.5	20.60	9394.0	0.0	20.48	-	XG017	41659.0	154.02
210.0	-19.40	10584.0	0.0	-19.31		XG018	41869.0	134.70
119.0	3.50	9812.0	0.0	3.51	-	XG019	41988.0	131.19
194.5	-7.00	10230.0	0.0	-7.03		XG020	42182.5	124.16
199.0	-4.90	10160.0	0.0	-5.00	-	XG021	42381.5	129.16

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C		NAME	LENGTH	ELEVATION
23518.0	108.94					FL108	23518.0	108.94
1202.5	-.02							
168.0	-17.80	10673.0	0.0	-17.82		FL109	23686.0	91.11
106.5	11.00	9347.0	0.0	10.96	-	FL109B	23792.5	80.14
109.0	.50	9972.0	0.0	.47		FL110	23901.5	80.62
224.5	-5.80	10166.0	0.0	-5.85	-	FL111	24126.0	86.47
182.5	-1.50	10052.0	0.0	-1.49		FL112	24308.5	84.98
153.0	.50	9979.0	0.0	.50	-	FL113	24461.5	84.47
259.0	12.70	9690.0	0.0	12.62		HS093	24720.5	97.09


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