

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
20+000	15	423.23	422.64	421.14	421.25	421.59	423.77	421.87	419.65	420.04	419.30	418.33	418.02	416.74	415.14	416.69	416.41	416.21	418.06	417.14	417.12	5.53
19+900	35	428.74	429.26	428.23	427.45	425.83	428.80	424.77	421.87	421.59	420.38	421.16	419.51	419.22	419.92	420.68	418.90	420.29	420.53	419.75	420.47	6.76
19+799	42	423.89	424.12	425.09	424.64	423.97	425.31	424.55	424.12	423.00	423.06	423.68	423.85	421.00	421.98	422.55	419.33	419.85	419.77	418.83	418.61	8.53
19+700	42	422.65	421.99	422.32	421.63	419.80	420.85	418.16	373.52	414.94	414.93	414.19	413.92	414.22	415.97	415.68	414.68	416.89	417.21	417.65	418.20	5.57
19+600	39	424.27	423.79	423.58	422.84	419.37	421.61	420.01	418.67	417.34	415.60	417.27	416.40	412.78	413.21	412.33	412.02	412.96	413.01	411.96	411.58	7.16
19+500	25	415.32	413.17	411.74	410.80	409.19	410.24	410.24	409.41	409.49	410.11	411.76	411.54	411.57	413.03	413.99	412.18	411.65	411.97	408.99	404.90	13.39
19+400	29	429.93	426.79	422.60	421.45	419.72	423.07	420.52	423.81	420.33	419.73	420.64	419.59	419.17	418.98	418.84	417.93	415.90	413.83	410.82	404.47	16.91
19+300	34	424.63	424.45	423.31	423.22	419.78	418.01	413.15	409.53	410.34	410.75	411.50	412.91	413.28	412.76	413.34	411.50	412.35	412.69	412.58	412.31	11.96
19+200	34	437.87	431.72	425.31	421.23	418.25	420.89	419.16	419.47	420.41	419.72	420.36	418.48	416.04	415.94	414.58	413.62	413.15	411.49	408.69	404.93	11.27
19+099	28	421.33	422.24	423.28	422.38	417.29	421.81	413.99	415.85	408.31	409.11	407.57	404.57	403.87	405.89	407.93	411.84	412.63	413.71	414.24	414.18	15.05
19+000	34	416.85	416.54	416.19	420.25	419.52	419.87	420.89	422.71	418.40	413.22	410.32	407.44	405.14	407.16	407.26	407.10	408.19	408.84	408.99	409.83	13.80
18+899	44	421.66	419.67	419.91	420.44	418.85	420.62	418.94	417.02	415.50	414.39	414.94	412.38	411.23	410.93	411.03	408.55	410.23	410.71	408.80	408.20	6.79
18+799	41	423.32	421.66	420.17	418.38	415.52	415.37	411.69	409.25	407.57	407.48	404.20	402.94	400.94	400.20	400.53	398.79	398.84	398.57	397.93	397.38	6.66
18+700	35	419.81	416.99	414.04	412.18	410.81	409.41	406.51	406.48	407.08	406.60	404.26	404.74	402.61	401.93	401.72	399.61	399.98	399.52	398.73	398.80	10.74
18+599	44	432.66	431.83	430.36	428.95	425.72	427.66	424.37	421.35	420.53	417.91	418.17	414.90	411.99	410.45	408.99	406.84	408.02	406.91	405.03	403.57	10.19
18+499	44	423.91	423.35	423.41	424.70	423.59	426.87	422.85	420.60	417.12	414.20	414.09	410.86	407.03	404.80	400.43	397.26	396.34	394.34	390.23	388.20	14.89
18+399	26	408.01	407.57	406.88	406.53	405.50	410.00	401.08	401.02	401.82	399.49	398.94	395.72	393.78	393.13	393.38	393.24	392.85	392.69	391.03	389.88	11.93
18+300	36	418.98	419.22	417.46	417.72	416.42	418.31	413.86	414.55	415.47	413.57	411.48	410.02	409.48	407.58	406.99	403.93	405.16	405.25	403.82	404.68	12.07
18+199	38	412.53	413.65	413.88	416.68	415.27	411.77	415.25	417.32	414.07	412.66	413.54	411.15	407.71	407.76	406.41	402.63	401.69	400.21	399.28	399.91	18.82
18+100	42	420.67	418.11	417.59	415.70	414.43	420.23	414.99	413.46	413.10	411.93	413.11	411.85	411.84	411.04	409.14	407.07	406.03	404.25	401.87	400.79	10.99
18+000	46	413.17	410.33	410.68	409.16	406.81	411.93	408.41	407.47	405.56	404.55	408.33	406.28	405.02	403.68	401.86	400.80	399.14	398.61	396.63	396.76	11.47
17+899	48	432.80	427.85	423.77	421.48	417.45	417.64	414.15	411.02	407.58	405.50	402.76	400.97	397.47	395.00	391.34	387.47	384.74	381.97	377.72	373.58	9.50

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

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INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
17+799	37	420.11	417.09	415.47	413.59	410.60	412.47	407.63	403.43	401.45	399.67	401.00	400.15	397.28	397.22	396.38	394.86	394.60	394.12	392.47	392.12	6.89
17+699	48	429.27	426.07	423.50	420.59	416.85	418.89	414.47	411.74	409.65	409.95	409.25	406.55	406.26	406.44	405.89	404.92	404.42	402.32	401.34	400.00	6.18
17+599	47	418.98	416.54	415.56	416.33	414.64	416.76	413.76	412.32	411.58	411.63	413.96	411.72	409.85	409.83	406.12	407.67	408.25	405.78	402.19	399.23	11.89
17+500	25	410.04	408.93	407.72	405.68	405.43	411.18	407.11	405.89	405.91	402.69	404.92	401.86	397.83	396.74	395.20	396.97	397.62	398.45	397.47	395.32	13.67
17+399	30	419.78	413.43	414.46	413.34	411.40	414.18	407.18	404.40	405.03	403.80	400.01	400.78	401.64	403.12	402.60	399.09	403.76	405.04	407.96	411.32	11.79
17+300	27	430.31	423.00	419.55	420.50	418.75	420.12	413.61	414.48	414.31	411.96	410.98	409.64	407.11	406.72	407.55	400.03	401.34	407.26	408.75	406.10	16.91
17+199	35	411.97	411.41	410.24	410.59	409.43	417.35	411.13	409.14	409.45	406.63	407.83	405.58	399.08	399.44	400.59	401.61	401.65	400.03	399.94	398.97	16.17
17+099	41	418.08	414.40	413.49	414.07	412.07	417.90	410.63	410.79	410.84	409.55	408.87	406.75	404.89	404.47	402.61	400.13	400.17	397.99	397.07	394.66	13.00
17+000	47	422.43	422.49	419.66	418.49	413.52	416.07	412.85	411.21	408.94	406.15	405.84	405.28	403.49	402.44	403.11	400.86	400.42	399.42	398.63	396.73	8.88
16+899	40	410.15	411.96	411.69	410.42	408.54	409.15	407.35	406.89	406.26	405.67	407.06	403.75	400.64	399.64	398.33	399.13	397.57	395.18	393.56	391.86	10.63
16+800	34	414.09	411.76	408.81	407.12	407.03	407.19	404.52	402.73	401.18	399.42	400.20	398.14	394.41	394.48	396.19	394.19	394.86	396.62	397.13	395.49	9.92
16+699	41	411.59	413.51	410.62	408.24	405.90	407.67	403.57	402.08	401.36	399.04	402.27	401.99	399.27	399.36	399.54	396.46	400.17	401.69	399.25	396.69	13.44
16+600	32	421.09	419.19	417.08	415.28	411.80	415.24	409.85	408.94	409.58	407.91	409.68	409.67	407.23	405.61	400.42	400.59	399.32	399.45	396.14	391.97	20.82
16+499	34	413.74	408.90	409.82	409.59	404.88	409.87	404.47	361.07	404.84	402.11	406.14	403.29	401.89	400.86	397.40	400.29	396.96	394.43	394.58	391.31	16.75
16+398	49	422.92	421.13	420.29	419.07	415.86	415.77	412.62	412.15	413.33	414.01	415.46	413.37	409.85	409.67	408.87	406.59	403.90	404.23	402.57	400.11	10.63
16+299	43	404.88	405.66	405.89	406.02	403.76	405.14	400.62	398.34	398.84	400.39	400.50	399.64	396.11	394.56	393.29	392.17	389.99	386.95	385.48	382.79	12.56
																					PROMEDIO	11.58
																					PERCENTIL	15.55

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### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
16+199	39	418.04	418.05	418.56	419.11	417.94	417.41	416.17	415.55	415.70	415.78	412.79	412.61	411.79	411.70	411.78	406.91	406.68	405.30	402.70	400.26	10.46
16+100	40	415.94	414.26	413.07	411.88	410.30	411.43	408.56	407.24	406.68	406.49	406.55	404.90	403.27	403.05	401.94	400.48	399.29	398.64	396.72	395.36	9.51
16+000	38	417.96	416.44	416.06	414.21	412.03	414.65	412.59	410.82	409.85	408.95	411.80	408.99	406.96	406.10	404.21	403.95	402.08	400.89	397.81	396.33	8.72
15+899	48	417.05	417.21	417.09	417.27	415.62	413.71	412.43	412.23	411.64	411.58	409.22	408.12	407.01	406.87	406.47	402.08	402.26	402.19	401.37	399.91	7.32
15+797	51	416.28	415.75	416.07	416.37	415.74	414.67	412.61	412.02	411.80	411.79	408.89	406.84	405.14	405.38	404.88	400.58	401.04	400.36	398.95	397.70	8.71
15+699	59	420.22	419.57	419.22	419.68	417.69	417.30	414.05	413.15	412.89	411.78	409.15	407.27	405.31	406.11	406.26	403.96	403.03	403.51	403.75	405.44	5.61
15+598	62	422.94	421.62	421.45	420.97	418.38	419.62	417.38	416.31	415.51	415.23	416.17	417.08	415.24	415.52	414.08	412.28	411.76	410.47	407.41	405.66	12.78
15+499	57	405.71	406.71	407.00	406.86	405.52	408.26	406.96	406.44	406.48	405.84	408.48	407.91	407.41	408.51	409.27	406.16	405.07	403.96	402.09	400.28	12.42
15+399	56	389.50	391.25	393.39	395.85	396.34	405.66	405.19	406.41	408.98	410.90	415.33	414.49	411.79	411.35	414.12	412.65	413.57	413.82	414.63	415.54	16.93
15+299	59	409.68	407.87	406.85	405.24	403.28	413.65	410.15	408.41	409.41	408.19	416.38	412.30	407.03	403.60	401.20	406.84	403.16	400.81	396.69	393.38	18.70
15+199	57	409.24	408.28	408.08	407.08	405.40	412.57	409.58	408.73	409.37	407.43	412.36	408.24	405.14	403.15	401.13	400.26	397.24	395.05	392.29	390.78	15.67
15+099	61	410.60	409.72	409.18	407.59	406.20	408.75	406.44	404.73	403.37	403.06	402.48	401.30	399.13	398.38	398.19	396.80	396.04	394.61	391.90	389.97	9.14
14+999	57	405.08	403.20	402.94	402.58	400.53	406.41	403.35	401.77	401.12	400.86	404.89	403.88	401.42	401.82	400.99	403.00	402.91	401.12	398.11	396.50	11.63
14+899	57	402.69	404.40	405.39	406.27	407.49	410.21	409.31	409.88	412.65	413.33	413.89	413.16	411.12	410.07	408.65	403.79	404.36	405.57	406.18	405.28	14.64
14+800	54	406.29	405.41	406.83	407.37	407.30	408.19	405.25	405.12	405.87	406.01	404.52	403.24	402.30	402.86	401.73	398.28	397.05	396.89	394.89	393.40	14.64
14+698	52	434.47	430.69	427.23	423.62	417.53	417.39	412.78	408.73	404.87	400.60	399.04	395.82	391.87	388.63	385.62	383.51	380.10	376.65	372.14	368.50	9.71
14+599	56	416.45	415.89	415.78	416.54	415.48	414.54	411.91	411.16	411.43	411.50	407.81	407.44	405.26	405.24	405.11	396.43	394.98	394.04	391.81	389.48	14.54
14+500	55	403.85	402.56	402.85	403.56	402.90	402.87	399.89	400.19	401.56	402.26	401.13	400.95	399.51	399.72	398.50	391.48	390.47	389.82	389.83	388.38	14.89
14+399	52	408.52	408.04	408.52	408.44	406.54	409.92	406.84	406.64	406.84	405.75	408.87	406.71	403.33	401.00	398.75	398.96	397.01	396.16	394.79	393.31	15.17
14+299	46	430.88	428.46	426.17	422.66	417.95	420.08	416.53	415.75	413.33	405.77	405.96	402.15	400.12	397.31	389.63	386.78	384.90	384.11	379.98	377.42	18.82
14+200	49	417.25	415.23	414.33	413.32	412.11	412.47	410.00	408.83	409.03	408.83	409.46	408.33	405.95	405.12	404.67	403.33	405.32	407.20	407.62	407.45	5.49
14+100	58	411.04	410.71	409.88	409.63	408.11	410.43	408.13	406.20	405.30	405.89	407.40	405.89	405.57	405.89	403.60	399.92	400.86	402.49	403.43	401.77	6.95

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### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
13+999	52	406.93	405.06	405.86	404.84	403.13	406.82	403.90	402.06	401.11	400.98	402.10	400.00	396.66	396.40	394.33	390.88	389.80	386.97	384.38	381.78	14.09
13+899	52	419.48	417.37	416.14	414.32	411.24	411.29	407.92	405.36	404.17	402.92	402.27	400.15	398.56	397.86	396.88	392.04	387.46	383.02	377.19	372.92	16.45
13+800	52	420.83	419.47	418.64	417.94	414.97	416.10	412.96	411.14	410.88	411.13	412.54	409.75	404.33	402.24	400.21	393.84	390.84	385.59	380.86	378.56	16.93
13+699	53	394.46	395.28	396.21	398.51	401.09	400.24	399.89	401.42	404.76	407.89	404.61	406.33	405.26	406.06	406.04	398.16	400.54	401.43	402.64	404.51	17.09
13+599	53	396.11	395.48	394.53	395.28	392.91	401.36	398.32	397.42	397.89	397.30	402.67	402.69	398.25	398.16	397.21	403.12	401.66	400.92	399.29	397.51	16.50
13+498	50	397.94	397.74	399.94	402.28	402.72	403.92	402.60	403.20	404.66	406.32	404.43	404.91	403.59	405.03	406.94	403.29	405.21	406.82	406.96	406.37	9.05
13+400	52	385.18	387.39	389.94	392.00	393.04	395.87	397.19	397.30	399.05	399.26	400.32	402.08	401.47	403.02	402.23	400.76	403.61	402.86	401.97	401.49	14.53
13+300	53	395.33	395.24	395.89	396.64	396.83	400.28	397.91	396.98	398.84	399.44	399.45	399.93	397.98	398.75	399.98	399.30	400.28	401.71	402.64	402.39	9.75
13+200	48	421.92	419.75	416.89	414.41	411.01	413.33	409.36	406.34	404.42	401.58	401.23	399.17	394.60	391.66	388.35	386.55	385.57	384.77	382.86	380.73	8.24
13+099	52	432.26	428.72	425.15	420.41	415.50	419.25	414.48	410.70	406.13	402.66	403.98	401.00	397.52	393.50	390.56	389.11	386.50	382.65	378.71	374.46	11.39
																					PROMEDIO	12.39
																					PERCENTIL	16.65

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EQUIPO UTILIZADO		TRAMO I								SENTIDO				CARRIL			LONGITUD				FECHA	
Transverse Profile Logger		0+000 - 20+100								OÑA - CUMBE				DERECHO			20100				2007-12-10	
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
12+900	49	422.14	420.73	420.99	420.26	418.85	417.27	415.44	414.54	414.05	413.77	410.30	409.01	408.01	409.68	410.10	408.19	410.13	411.61	412.36	413.06	6.06
12+799	49	422.38	422.71	423.02	423.63	423.12	426.14	423.95	424.57	424.45	424.37	424.72	424.59	422.20	421.28	420.77	419.56	420.26	419.49	417.95	417.49	11.58
12+699	53	423.47	422.38	423.59	423.97	422.93	427.48	426.66	426.46	427.31	425.93	425.17	424.15	422.02	420.76	420.79	420.65	421.40	422.01	420.51	419.66	8.99
12+599	55	419.57	417.33	417.04	416.37	414.53	417.96	416.49	414.55	414.82	414.54	418.66	417.11	416.82	416.86	413.94	410.54	408.51	406.20	402.96	400.07	14.09
12+499	60	427.82	426.05	424.39	421.95	419.36	422.10	419.69	417.09	416.00	414.72	415.81	414.54	412.69	411.07	408.69	407.37	406.97	406.30	402.66	398.58	10.77
12+399	58	417.80	417.83	418.24	418.55	417.29	417.99	415.87	415.91	416.27	416.02	413.69	412.64	412.85	412.78	411.25	403.87	403.76	404.19	401.14	398.67	15.85
12+299	56	420.44	417.48	414.59	412.46	408.64	418.88	414.86	412.38	411.31	408.75	416.89	414.54	410.83	408.91	405.34	406.88	404.07	402.56	400.28	397.53	14.28
12+199	58	402.52	403.33	405.39	407.57	408.17	410.35	409.79	412.51	414.70	418.20	418.01	418.23	417.53	417.10	415.13	411.61	411.03	411.12	409.99	409.94	15.68
12+099	58	403.10	403.18	403.54	403.98	402.85	404.93	403.27	403.37	403.09	403.29	405.60	406.23	402.68	401.53	398.83	395.44	393.58	392.55	389.45	386.67	15.09
11+999	57	401.00	400.10	399.83	400.43	398.94	401.39	399.46	398.82	398.56	399.17	401.69	402.22	400.12	399.56	397.51	394.14	391.40	388.51	386.30	385.26	15.92
11+898	51	407.95	405.65	404.66	403.48	401.15	404.32	401.73	400.75	400.19	399.10	399.94	398.23	395.83	394.86	393.22	389.25	387.39	385.63	383.58	383.09	12.97
11+800	55	416.17	414.16	413.18	412.12	409.97	409.68	406.90	406.00	405.14	403.82	401.84	401.02	398.11	396.91	394.22	391.90	390.54	389.75	387.04	383.27	10.50
11+699	55	412.26	410.78	411.26	411.19	410.60	414.89	412.27	411.92	412.17	410.04	410.84	408.20	405.63	403.84	401.41	401.35	400.45	399.98	397.99	397.08	12.44
11+600	50	392.96	394.56	397.25	398.61	399.38	404.61	400.04	400.73	401.98	403.29	404.59	404.94	404.46	404.90	405.20	403.20	405.55	405.85	405.64	404.98	13.13
11+500	58	410.02	410.02	410.64	410.27	409.53	413.93	412.08	411.81	412.16	413.05	417.17	416.36	414.14	412.40	410.98	411.30	411.26	411.85	411.16	409.66	11.36
11+400	61	407.47	406.06	405.24	405.84	404.04	409.39	406.24	405.23	406.25	404.63	409.54	405.31	400.83	397.92	396.25	398.69	396.97	395.44	392.86	391.14	14.18
11+299	57	405.41	405.33	407.37	409.17	408.83	407.69	406.62	407.97	409.41	409.24	408.60	407.15	403.23	401.34	398.66	394.81	394.01	393.47	391.36	389.85	15.76
11+200	51	399.70	399.29	399.58	399.22	397.32	399.84	399.16	398.76	400.99	399.51	401.77	401.42	399.53	399.28	397.69	394.31	392.77	392.06	389.64	387.50	13.60
11+099	53	397.80	397.37	397.76	399.01	398.70	410.56	406.23	406.84	409.06	409.27	414.42	412.08	409.48	408.06	407.24	408.99	408.96	408.65	407.17	406.39	15.80
10+999	55	403.79	402.64	403.58	403.48	402.60	401.07	399.32	399.41	399.56	400.01	398.91	400.08	398.57	397.98	396.24	393.60	392.31	390.68	387.20	385.67	11.16
10+899	65	414.01	412.69	412.53	411.37	410.54	411.86	410.14	409.64	410.04	409.31	411.10	409.11	406.10	403.88	401.54	397.45	395.88	393.64	389.69	387.00	14.95
10+800	58	404.65	404.36	405.02	405.57	404.93	410.31	408.61	408.07	408.50	406.84	407.01	404.23	400.80	398.90	397.28	397.60	396.91	395.51	394.62	392.10	13.58

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I					SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100					OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)	
10+699	56	404.44	403.74	403.46	403.74	402.08	402.99	401.03	399.61	400.01	399.82	400.76	398.11	395.38	395.30	395.05	388.49	386.89	385.55	384.91	385.57	12.75	
10+600	56	406.00	404.79	404.58	405.40	404.65	406.34	402.54	400.94	401.49	402.04	400.74	401.26	400.14	401.96	402.56	398.13	397.36	395.82	392.53	389.47	11.62	
10+499	54	407.47	407.80	408.48	409.35	408.71	410.39	408.57	407.96	407.97	407.88	408.75	406.13	403.81	403.75	401.41	396.60	395.21	395.23	394.71	393.84	13.33	
10+399	53	411.02	409.24	408.22	407.54	406.19	406.66	403.37	401.51	401.71	401.91	402.27	402.71	402.01	401.47	398.88	395.85	393.95	392.43	389.68	386.80	11.95	
10+300	52	411.92	411.88	412.35	411.51	410.02	409.56	407.05	406.02	405.31	405.37	405.13	404.69	404.09	404.32	401.97	398.48	397.99	397.35	394.79	392.49	10.64	
10+199	57	416.48	414.18	414.52	413.60	411.04	411.93	407.85	407.31	407.48	408.28	406.47	404.82	402.31	401.08	400.62	398.08	398.50	397.27	393.70	391.70	9.70	
10+100	55	405.85	406.21	405.67	406.48	405.76	408.06	407.16	407.27	409.81	409.62	409.55	409.20	405.59	403.59	401.55	397.19	396.33	396.59	396.68	394.13	16.34	
9+999	52	418.25	415.70	413.51	411.32	407.33	408.20	405.79	404.32	403.12	401.68	403.27	403.01	401.82	400.52	397.14	394.53	392.52	390.56	388.40	385.91	10.76	
9+898	51	416.62	415.53	415.69	415.05	413.15	414.18	411.72	410.59	411.00	411.11	411.51	410.62	406.90	403.80	401.08	397.36	395.49	393.02	389.68	388.03	13.39	
9+800	39	397.53	396.92	396.42	396.27	395.31	395.34	392.72	391.66	391.72	391.29	393.58	395.01	393.64	394.76	394.52	389.65	391.51	392.16	391.20	391.14	11.33	
9+700	10	416.31	418.01	414.44	414.75	414.33	420.07	416.10	413.33	410.69	408.28	407.25	403.63	398.20	395.45	394.58	387.95	389.05	388.62	387.35	385.12	21.96	
9+598	45	415.62	415.87	416.08	416.41	415.26	418.84	416.29	415.52	415.68	415.03	415.69	414.42	412.26	412.27	410.67	409.07	407.84	405.94	402.82	400.03	13.45	
9+500	46	407.70	406.33	406.38	407.68	406.46	408.55	406.97	407.39	408.59	407.80	407.84	408.28	406.28	407.78	407.58	405.57	407.09	408.95	408.12	407.16	10.03	
9+399	50	405.28	404.53	404.52	404.61	404.28	406.23	405.93	406.87	408.72	406.12	401.51	399.90	398.18	397.88	397.74	393.72	393.48	393.77	393.44	393.13	13.50	
9+299	27	410.89	408.32	406.22	403.99	400.53	402.52	400.57	398.51	396.81	395.41	396.35	393.83	389.45	387.42	384.23	382.39	378.20	377.04	372.77	369.32	13.87	
9+199	43	422.01	420.32	420.66	419.65	418.29	415.52	414.08	413.56	413.46	408.09	411.42	409.69	409.17	410.66	411.46	408.80	410.24	411.47	413.03	413.53	9.45	
9+099	55	426.08	424.37	422.95	422.22	420.95	422.56	419.97	417.96	417.17	416.78	417.72	415.50	413.87	414.30	413.97	413.17	413.42	413.54	412.19	411.20	5.09	
9+000	54	414.16	414.24	414.97	414.73	413.51	417.58	415.95	415.69	415.18	412.68	415.89	414.91	412.38	413.14	411.45	413.28	413.45	412.80	413.15	411.32	8.81	
8+900	53	408.17	409.43	410.57	412.77	413.43	414.00	413.69	415.05	416.36	414.84	410.16	408.78	406.55	406.42	406.38	403.30	403.68	403.70	402.61	401.75	14.72	
8+799	59	421.27	419.81	419.16	419.05	417.77	420.57	419.36	419.48	421.15	420.30	418.10	416.97	413.81	413.40	410.77	405.81	404.90	404.53	403.27	401.30	13.64	
																					PROMEDIO	12.71	
																					PERCENTIL	15.59	

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
8+699	61	414.90	415.54	415.68	415.85	415.27	417.37	416.31	416.77	418.66	420.63	416.59	414.35	410.18	408.84	407.95	403.02	401.53	401.38	400.56	399.16	16.10
8+599	59	414.27	412.81	412.40	412.24	412.05	417.55	416.98	417.34	415.22	412.91	412.71	409.85	407.11	406.09	405.40	405.57	405.22	404.51	403.01	402.83	13.11
8+500	58	412.57	412.83	414.65	415.04	415.20	419.25	417.99	417.90	419.54	418.83	419.84	417.23	412.93	411.41	410.10	408.51	407.98	407.54	405.68	404.23	16.63
8+400	53	420.26	419.11	420.02	420.45	417.95	419.18	417.52	417.42	417.17	416.02	413.53	410.29	407.07	406.10	404.19	401.53	400.94	399.47	397.93	396.61	12.12
8+299	54	426.52	422.91	421.44	418.27	413.87	414.42	411.18	409.73	407.62	406.16	407.50	406.75	406.13	406.29	406.00	406.91	407.64	409.30	410.27	409.49	5.56
8+199	53	416.60	414.44	413.31	411.51	409.12	411.36	408.53	406.33	404.48	403.25	403.90	402.20	400.87	400.32	399.68	398.92	400.16	400.27	400.10	399.64	5.09
8+100	16	407.56	404.91	403.10	401.49	398.18	395.04	392.62	390.20	388.59	387.98	387.42	386.84	385.99	387.13	387.63	385.32	388.86	390.05	391.06	392.07	5.01
7+999	23	428.19	426.54	424.61	423.33	419.58	422.32	419.09	418.82	414.39	410.95	418.24	415.88	415.09	412.41	407.85	407.03	402.63	401.75	400.92	398.00	20.03
7+899	18	413.60	414.01	415.57	415.87	413.69	409.76	410.61	408.31	406.86	405.82	400.78	399.32	399.68	400.27	400.72	395.86	396.78	396.73	400.86	403.68	8.84
7+799	37	421.85	418.61	419.09	420.66	418.80	422.30	419.81	419.07	420.42	422.02	420.33	416.89	416.78	418.63	419.43	417.24	418.29	418.54	416.52	415.32	10.44
7+700	15	418.03	416.56	416.37	415.37	413.26	413.63	413.19	412.73	413.08	413.75	412.31	412.46	409.83	409.08	409.39	409.03	410.05	410.99	410.56	410.04	5.98
7+599	43	425.77	425.05	425.44	426.08	425.95	429.66	431.09	433.45	433.26	430.93	428.67	426.20	423.71	422.40	421.71	418.83	417.21	416.28	414.39	413.44	14.17
7+499	51	423.97	422.56	422.75	423.67	422.89	427.38	426.96	427.64	428.93	428.47	426.34	422.98	418.74	416.51	414.90	412.39	410.02	407.52	404.78	402.83	17.31
7+399	50	420.98	419.80	418.97	418.43	416.99	419.74	418.63	419.71	422.34	421.09	418.67	416.20	413.55	412.02	410.21	407.63	406.14	405.65	402.86	401.79	12.53
7+299	47	417.84	416.26	415.80	415.15	413.76	414.48	412.50	411.66	412.31	412.82	412.66	412.42	411.78	412.03	410.43	407.48	405.71	404.41	402.16	400.07	11.15
7+200	41	409.59	408.71	408.65	407.67	405.76	406.76	405.35	404.54	404.23	404.28	404.03	403.49	400.54	398.54	397.39	393.59	392.69	391.93	390.17	388.95	9.46
7+099	38	421.60	420.69	420.23	419.08	417.34	417.14	416.04	414.65	413.38	414.13	413.56	412.49	409.79	409.51	407.78	404.20	401.75	398.64	394.37	391.09	13.00
6+999	53	415.31	414.42	414.21	414.54	414.47	414.68	413.33	414.88	417.50	418.85	418.42	422.22	420.40	421.06	417.63	411.12	408.06	406.85	404.55	401.75	18.82
6+899	52	401.34	401.86	403.67	406.10	406.62	407.64	408.07	411.51	414.70	416.20	412.60	410.89	407.14	405.36	403.54	395.67	394.30	393.87	391.40	391.24	22.02
6+800	26	408.93	409.20	409.42	409.00	407.58	412.06	409.81	409.41	408.51	409.66	411.07	408.24	406.32	404.76	403.20	401.84	402.80	402.33	401.21	401.09	11.80
6+700	42	422.42	422.56	421.78	422.30	421.43	423.92	421.48	421.00	420.08	420.01	420.76	418.67	417.82	417.95	417.47	415.51	416.04	416.76	415.45	414.86	10.09
6+599	45	426.47	424.96	425.31	425.36	423.61	427.85	426.35	426.12	428.32	429.78	430.26	426.84	422.64	419.92	417.38	414.82	413.86	412.09	410.55	408.78	16.39

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA			
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10			
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)	
6+499	45	416.21	417.16	417.50	416.13	413.71	419.97	418.19	418.78	420.06	419.83	417.84	414.01	411.42	410.22	409.74	407.12	407.35	407.28	406.24	406.69	14.71	
6+400	17	403.02	404.14	406.03	407.25	407.02	409.64	407.09	404.94	404.17	403.78	402.91	402.00	401.05	401.84	401.51	399.90	401.05	402.41	401.72	400.79	11.76	
6+299	27	413.75	414.61	414.61	418.64	421.09	422.11	420.75	422.70	423.60	424.04	426.70	425.70	424.00	422.74	422.65	418.21	415.89	414.85	414.24	413.37	22.21	
6+200	44	417.88	418.74	418.88	420.96	421.00	424.20	423.44	423.41	423.80	422.39	420.00	418.38	416.16	415.68	414.33	412.06	412.05	411.72	411.56	409.15	13.66	
6+099	52	426.06	423.93	423.86	422.95	421.23	423.07	421.37	420.48	420.30	420.51	420.18	419.04	415.52	413.25	410.82	408.77	408.05	407.70	406.04	404.37	9.92	
6+000	51	414.11	414.00	415.26	416.53	416.14	418.58	416.79	415.65	415.37	414.23	411.78	409.37	407.09	406.08	405.57	403.25	402.38	401.23	400.27	399.22	12.84	
5+899	52	418.12	416.09	415.94	415.49	412.96	415.78	414.20	413.93	415.38	416.05	417.46	418.70	415.46	413.00	412.07	409.25	409.54	408.54	406.33	405.67	13.66	
5+799	53	416.10	412.91	410.96	409.32	407.01	408.54	406.69	406.83	405.32	405.24	408.12	404.17	401.43	400.42	401.12	401.81	402.60	403.57	403.24	403.83	8.31	
5+699	53	419.18	417.37	416.81	415.97	413.68	415.69	414.26	414.02	415.11	414.21	412.56	410.11	408.35	408.36	407.38	407.18	408.36	408.47	408.00	407.18	7.41	
5+599	60	423.81	422.12	421.87	421.48	419.71	421.42	420.15	420.87	422.77	422.03	418.79	415.68	413.04	413.32	413.37	411.23	412.43	412.19	411.85	412.18	9.19	
5+499	56	419.37	418.31	417.92	417.73	416.48	419.70	417.35	417.75	418.81	418.51	417.00	414.13	410.94	411.65	410.03	408.66	409.95	410.41	410.24	408.40	10.84	
																					PROMEDIO		12.43
																					PERCENTIL		16.77



# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
5+399	52	418.80	418.94	419.47	421.29	420.85	424.54	423.62	424.09	423.48	422.31	420.97	419.17	416.22	414.02	412.34	411.07	411.17	409.89	407.61	406.56	13.47
5+299	55	410.41	413.55	416.50	420.07	420.64	422.08	419.76	417.57	416.22	414.76	415.33	413.44	412.04	411.47	410.48	408.36	407.78	408.52	407.62	406.15	15.09
5+200	58	415.24	413.49	413.70	413.99	413.09	417.90	417.46	416.39	413.64	412.47	412.05	410.67	408.61	408.63	409.13	408.35	410.01	409.41	409.33	409.25	8.58
5+099	56	412.99	411.78	411.05	410.64	409.14	412.79	410.95	411.08	411.29	407.73	405.76	404.12	401.08	401.28	401.79	399.99	400.66	401.67	400.60	400.75	8.74
4+999	56	412.86	411.69	411.15	410.95	409.31	410.24	409.23	408.92	407.46	407.23	406.41	405.61	403.60	403.57	403.18	401.63	402.49	403.67	402.40	402.07	6.83
4+898	54	413.42	412.92	413.55	412.98	412.14	413.51	412.62	412.41	412.21	411.91	411.50	408.46	405.98	406.58	406.42	405.70	406.38	406.08	406.24	405.08	7.06
4+800	55	419.01	417.22	416.07	416.01	413.49	413.66	411.92	413.61	415.01	414.61	413.16	412.91	411.62	412.39	413.08	404.99	406.53	408.22	407.85	407.98	11.19
4+700	53	420.91	419.57	418.96	418.52	417.21	417.57	416.16	414.83	416.75	417.86	417.50	419.51	417.74	417.71	416.11	411.40	409.65	408.96	407.09	405.91	15.61
4+600	56	415.03	415.14	415.95	415.82	416.15	419.11	417.97	418.63	421.09	425.47	427.21	423.70	419.79	416.88	415.11	411.79	410.32	409.15	407.17	406.03	21.65
4+500	58	424.51	422.12	421.41	420.46	418.28	417.23	413.98	412.52	412.80	413.38	412.72	412.94	414.18	417.53	417.89	412.30	409.73	408.94	406.32	404.18	9.26
4+399	60	419.58	416.82	414.95	413.26	410.19	411.70	409.09	406.60	405.39	404.16	407.13	407.42	406.32	408.08	408.65	409.82	408.91	407.77	406.29	405.48	7.56
4+299	59	422.03	419.79	418.33	416.56	413.57	413.93	412.29	410.94	410.54	410.68	413.29	414.78	414.12	413.81	412.18	409.18	408.73	407.62	407.64	407.27	7.22
4+199	59	423.57	420.87	418.67	417.19	415.34	417.33	414.73	414.22	415.42	416.62	419.22	419.52	418.18	415.14	413.12	410.81	410.36	408.40	407.09	406.01	10.06
4+099	62	419.84	417.98	417.91	416.94	415.80	417.29	414.72	414.36	415.66	416.13	415.34	412.60	410.71	411.23	410.43	408.96	409.62	409.70	408.50	407.15	9.25
3+998	59	421.93	419.30	417.28	415.74	413.28	414.94	411.60	410.08	410.20	411.07	413.70	412.10	409.87	408.06	406.72	405.62	405.62	405.71	404.01	402.43	9.93
3+900	59	420.74	418.84	417.37	415.73	413.50	416.57	414.34	412.55	411.68	412.17	415.70	414.71	412.22	413.27	410.26	407.97	406.74	406.39	404.67	404.04	9.07
3+798	64	424.33	421.84	420.10	418.87	416.42	419.67	417.03	415.61	415.40	416.17	419.47	419.00	416.83	415.75	413.63	409.54	408.65	408.45	406.80	405.93	10.41
3+699	58	426.04	425.30	424.38	423.09	421.68	422.01	420.75	419.43	419.49	419.88	421.83	422.98	420.23	418.89	417.44	414.95	412.40	410.47	407.26	404.53	13.90
3+599	57	425.70	423.81	421.89	419.48	416.58	419.86	417.36	415.25	414.28	414.19	415.40	416.28	415.99	415.45	413.19	411.36	408.93	406.96	403.83	401.90	10.45
3+499	57	418.59	417.91	417.10	415.88	414.62	418.56	416.29	415.42	414.43	414.22	417.53	416.60	413.81	411.80	408.69	408.40	405.16	402.71	399.14	396.67	13.30
3+398	61	419.42	417.79	416.82	415.95	413.63	414.02	412.09	411.76	411.40	412.75	414.30	416.92	413.82	412.10	411.05	409.08	409.80	409.28	408.64	407.16	7.95
3+299	61	419.35	416.45	415.43	413.78	411.63	414.70	411.91	410.74	412.08	413.28	416.12	416.50	415.38	414.31	412.31	409.55	408.76	408.38	407.84	406.34	9.50

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				OÑA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
3+199	58	424.27	422.80	421.31	420.09	418.17	419.15	418.73	417.76	420.55	421.20	420.29	419.16	416.30	414.91	413.51	410.44	410.36	409.47	407.88	407.00	12.29
3+099	56	414.92	412.37	412.19	411.22	409.71	416.23	412.36	413.14	414.55	414.30	419.99	418.86	415.16	410.82	407.44	407.99	405.46	403.74	400.70	398.29	17.42
3+000	67	421.26	420.51	419.62	418.61	416.49	421.81	419.60	419.19	420.71	418.74	420.64	416.66	412.79	410.24	407.40	407.57	405.49	403.53	400.55	398.37	16.47
2+899	57	423.75	422.58	421.95	420.91	419.26	419.30	417.13	416.68	415.57	416.75	418.29	422.00	418.34	416.73	414.42	412.59	412.62	411.92	411.91	412.25	10.96
2+799	59	423.62	420.85	419.46	417.82	415.39	420.09	417.35	416.56	417.80	418.86	421.62	416.88	412.82	411.38	410.65	409.46	409.03	408.96	408.42	407.86	10.97
2+700	59	425.10	422.21	419.19	416.89	414.10	417.68	415.42	415.08	416.68	418.72	418.73	414.16	411.01	410.58	409.88	408.16	408.47	407.99	407.03	407.23	12.43
2+599	56	412.91	413.58	414.68	415.74	415.75	414.61	413.80	415.03	417.42	417.02	415.92	414.83	412.47	413.24	413.10	407.92	408.49	409.88	409.11	408.36	11.09
2+499	53	422.22	421.04	421.57	421.30	419.30	419.98	420.19	419.37	419.91	419.78	422.51	422.37	421.34	421.09	418.06	414.53	413.26	411.70	409.94	408.56	12.47
2+399	53	418.35	416.54	415.68	414.76	412.57	414.17	411.73	410.84	410.48	411.48	414.34	415.44	414.77	416.73	414.94	412.52	411.27	409.63	407.35	405.66	9.76
2+299	55	420.90	419.29	418.75	418.21	416.01	416.58	415.91	415.39	416.86	416.05	419.06	418.42	416.49	414.42	411.63	408.36	406.66	405.23	402.23	400.11	13.83
2+199	56	415.77	415.26	414.85	414.52	414.02	418.23	416.24	415.80	418.41	417.89	419.97	416.77	412.42	410.85	408.77	407.90	405.27	403.57	400.54	398.03	15.84
2+099	59	418.18	415.83	415.35	415.68	413.83	416.59	413.13	412.86	412.92	412.68	414.57	414.80	413.08	413.69	412.75	410.26	407.65	405.24	402.25	400.27	12.34
1+999	61	422.22	421.28	420.80	420.15	418.44	418.97	417.96	416.90	417.52	417.62	420.46	418.02	415.92	415.11	413.41	411.62	409.99	408.28	406.49	404.03	10.28
1+900	63	418.78	416.80	416.09	415.50	414.26	415.75	413.16	412.94	414.84	417.18	420.57	419.24	416.41	414.66	412.39	410.59	409.96	408.56	406.64	404.84	12.86
1+799	53	419.96	418.52	419.10	418.98	417.02	416.03	414.16	414.29	415.89	417.55	419.76	419.89	419.14	415.39	412.09	408.63	407.68	407.44	405.64	403.89	11.20
1+699	58	420.44	418.20	417.68	417.41	415.78	417.07	415.29	415.31	416.94	417.15	420.10	419.21	416.24	413.93	411.34	407.81	407.19	406.33	405.13	404.27	12.50
1+600	59	423.72	421.82	420.95	419.51	416.44	418.62	416.06	414.84	413.30	412.62	416.53	415.16	415.24	414.83	412.94	410.60	408.90	406.91	404.23	402.26	10.36
1+500	59	423.22	422.14	421.10	420.54	418.22	418.81	416.57	414.94	413.95	413.14	413.44	411.81	411.06	412.00	411.17	412.14	413.51	412.70	410.97	406.99	6.58
1+399	60	416.63	416.65	417.01	417.38	415.85	417.04	414.81	414.24	414.72	413.57	413.41	411.36	410.16	410.77	410.89	408.80	411.07	411.99	412.29	412.09	5.24
1+300	0	416.59	417.20	418.04	418.50	417.73	418.72	416.67	415.91	415.78	415.79	416.87	414.81	413.34	413.55	413.21	412.04	413.41	413.59	413.04	411.62	5.31
1+200	63	417.76	416.65	416.89	416.39	415.34	419.19	417.18	415.34	414.76	413.68	414.76	413.10	411.76	411.19	409.89	409.26	408.88	408.77	405.69	403.91	9.75
1+099	58	423.44	421.94	421.69	420.35	417.87	419.10	416.81	415.52	413.93	412.90	412.46	412.01	409.19	408.90	408.38	407.14	407.72	406.50	405.40	404.17	6.37

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

INEXTEC CIA. LTDA.

### PERITAJE DE PERFIL TRANSVERSAL / DETERMINACION DE SURCO DE HUELLA

EQUIPO UTILIZADO					TRAMO I				SENTIDO					CARRIL			LONGITUD			FECHA		
Transverse Profile Logger					0+000 - 20+100				ONA - CUMBE					DERECHO			20100			2007-12-10		
CHAINAGE	SPEED (Km/h)	ELEV 1	ELEV 2	ELEV 3	ELEV 4	ELEV 5	ELEV 6	ELEV 7	ELEV 8	ELEV 9	ELEV 10	ELEV 11	ELEV 12	ELEV 13	ELEV 14	ELEV 15	ELEV 16	ELEV 17	ELEV 18	ELEV 19	ELEV 20	RUT PS (mm)
1+000	56	423.31	422.06	421.18	419.72	417.63	415.99	415.26	415.14	415.95	415.92	413.57	412.81	409.48	409.88	409.11	405.65	405.28	405.11	403.49	403.27	9.87
0+899	58	423.69	422.33	422.38	421.70	420.87	419.53	418.32	417.34	415.99	415.50	414.61	412.51	411.16	411.65	411.25	409.41	410.45	411.51	411.03	410.34	6.28
0+799	62	422.40	420.63	420.18	420.44	418.31	416.71	415.27	414.34	414.77	414.50	413.47	411.26	410.35	411.12	410.37	407.49	408.81	409.11	411.62	410.14	5.55
0+698	61	420.94	420.25	420.50	420.02	418.01	416.26	415.23	414.56	413.64	412.96	411.24	410.52	409.56	410.08	409.94	407.16	409.74	411.68	411.21	411.34	4.39
0+599	60	420.81	419.67	418.80	417.38	415.39	413.37	411.44	409.58	409.20	409.40	407.32	407.62	407.18	409.76	410.80	406.30	406.90	404.60	402.87	401.73	7.95
0+499	59	418.64	416.11	415.74	414.81	413.08	411.80	411.55	410.23	410.56	412.92	411.81	414.96	414.99	416.86	415.58	408.27	406.49	403.81	400.92	399.74	14.38
0+398	58	417.76	417.96	420.31	421.86	420.75	418.93	418.40	419.83	421.74	422.59	422.50	425.67	427.39	429.25	427.43	418.69	416.15	415.88	414.66	412.47	17.82
0+299	47	409.33	408.42	409.10	408.78	406.91	409.36	407.72	407.26	406.31	405.72	408.26	406.32	406.03	406.02	404.62	404.18	405.15	405.86	404.15	403.20	6.68
0+200	35	409.58	408.77	409.44	409.43	407.96	408.32	406.82	405.54	405.10	405.11	405.18	403.17	402.31	402.88	402.90	398.95	399.05	399.21	399.10	399.30	5.50
0+099	21	405.13	403.63	406.78	402.90	401.56	403.53	402.00	405.99	399.63	399.05	401.73	400.38	401.91	398.24	398.09	397.18	397.88	401.01	396.51	396.61	9.62
0+000	4	408.66	407.89	407.87	407.54	405.86	406.84	405.18	404.66	404.48	404.41	405.33	404.29	402.65	403.14	402.22	400.95	400.06	399.27	397.27	396.44	7.13
																				PROMEDIO		10.50
																				PERCENTIL		13.89

# ESCUELA SUPERIOR POLITECNICA DEL LITORAL

## CASO DE ESTUDIO: CARRETERA CUMBE - OÑA

TRAMO: 0+000 - 20+100 / SENTIDO: OÑA - CUMBE

INXTEC CIA. LTDA.

### ESTUDIO DE PERFIL TRANSVERSAL (SURCO DE HUELLA)

Surco de Huella vs Distancia

