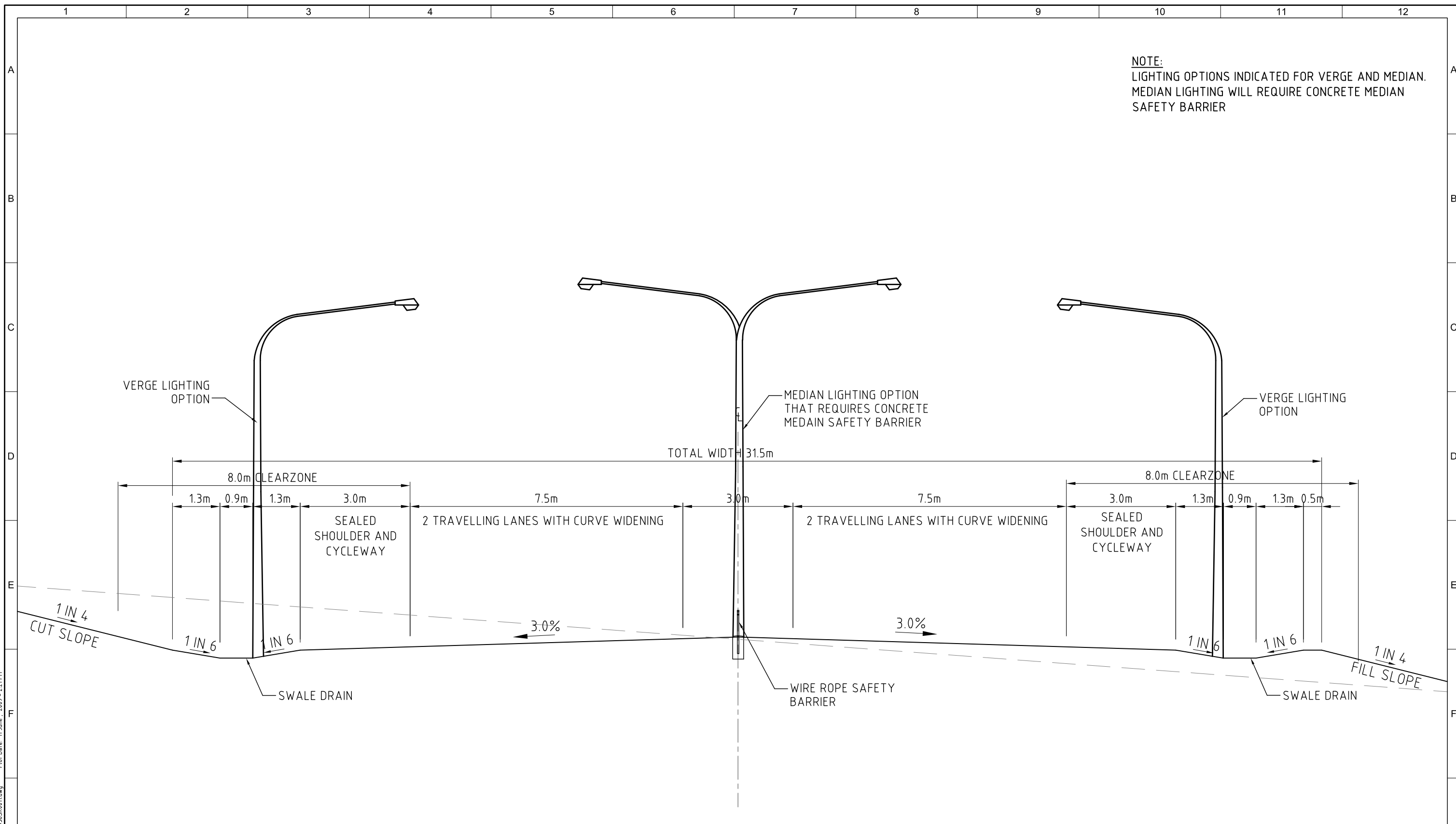


Appendix F Potential Petone–Grenada Link Road - Long Section and Route Alignment

Note: This alignment is indicative only. The actual alignment and local community connection will be determined as part of an investigation stage.



NOTE:
LIGHTING OPTIONS INDICATED FOR VERGE AND MEDIAN.
MEDIAN LIGHTING WILL REQUIRE CONCRETE MEDIAN SAFETY BARRIER

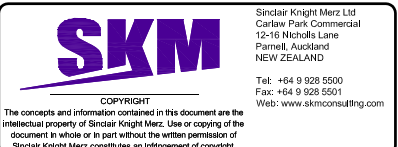


TYPICAL CROSS-SECTION J-J
DESIGN SPEED 70KM/H

NOT FOR CONSTRUCTION

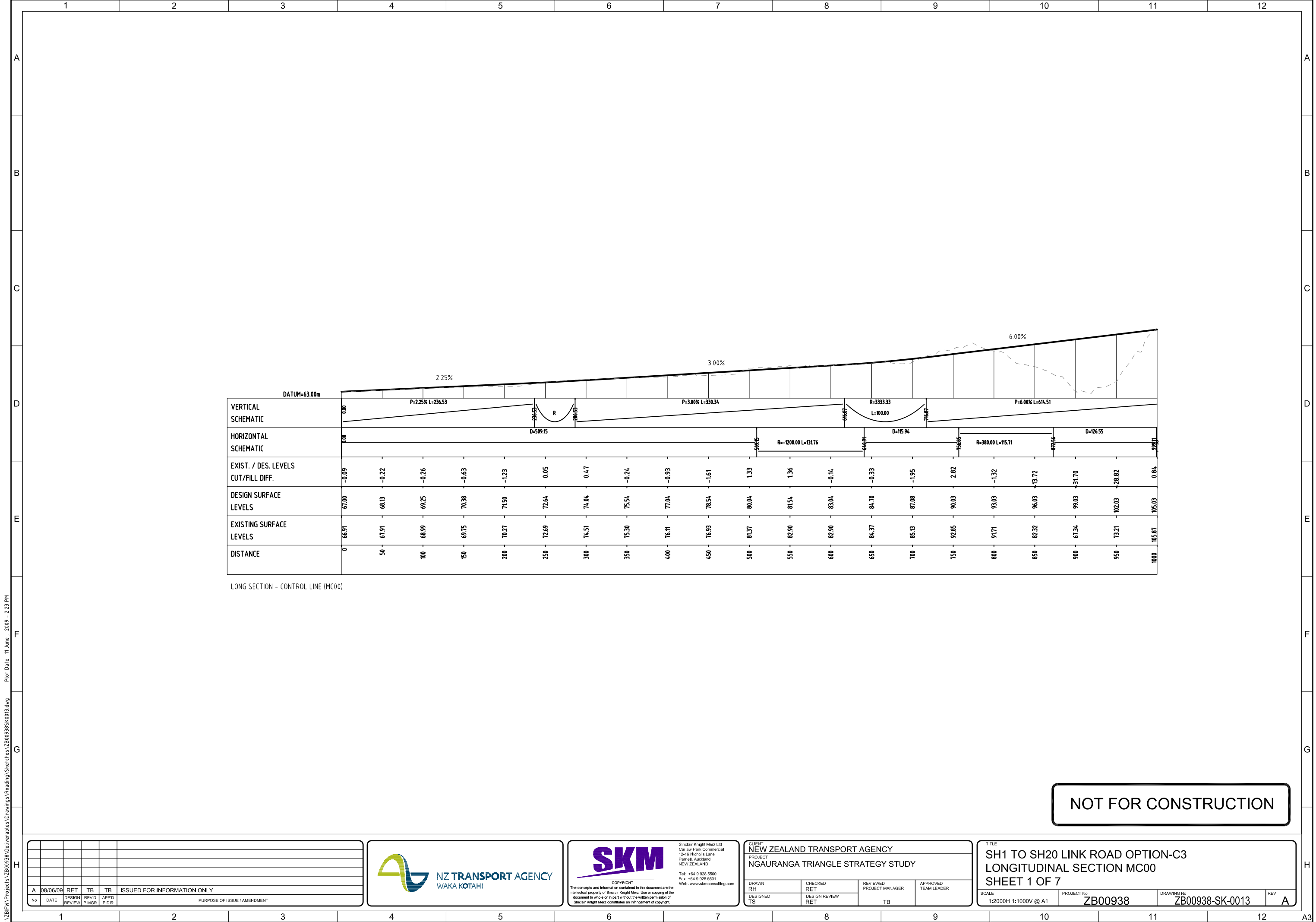
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PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
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DESIGNED TS	DESIGN REVIEW RET	TB	

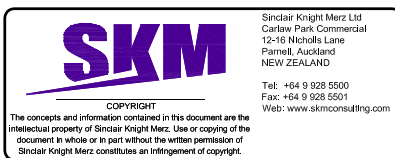
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LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

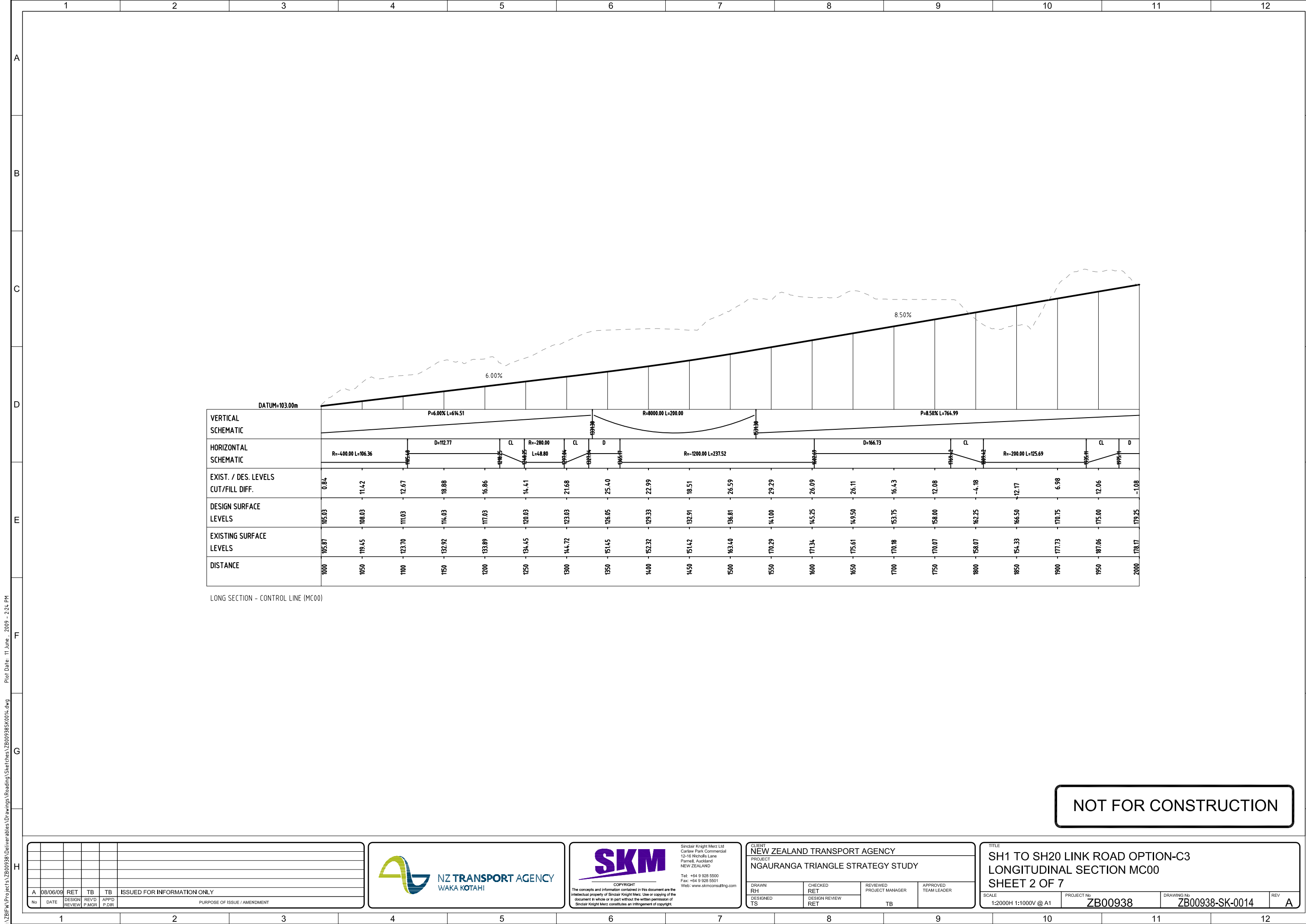
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PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

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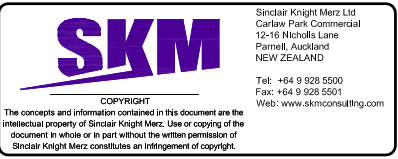
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LONG SECTION - CONTROL LINE (MC00)

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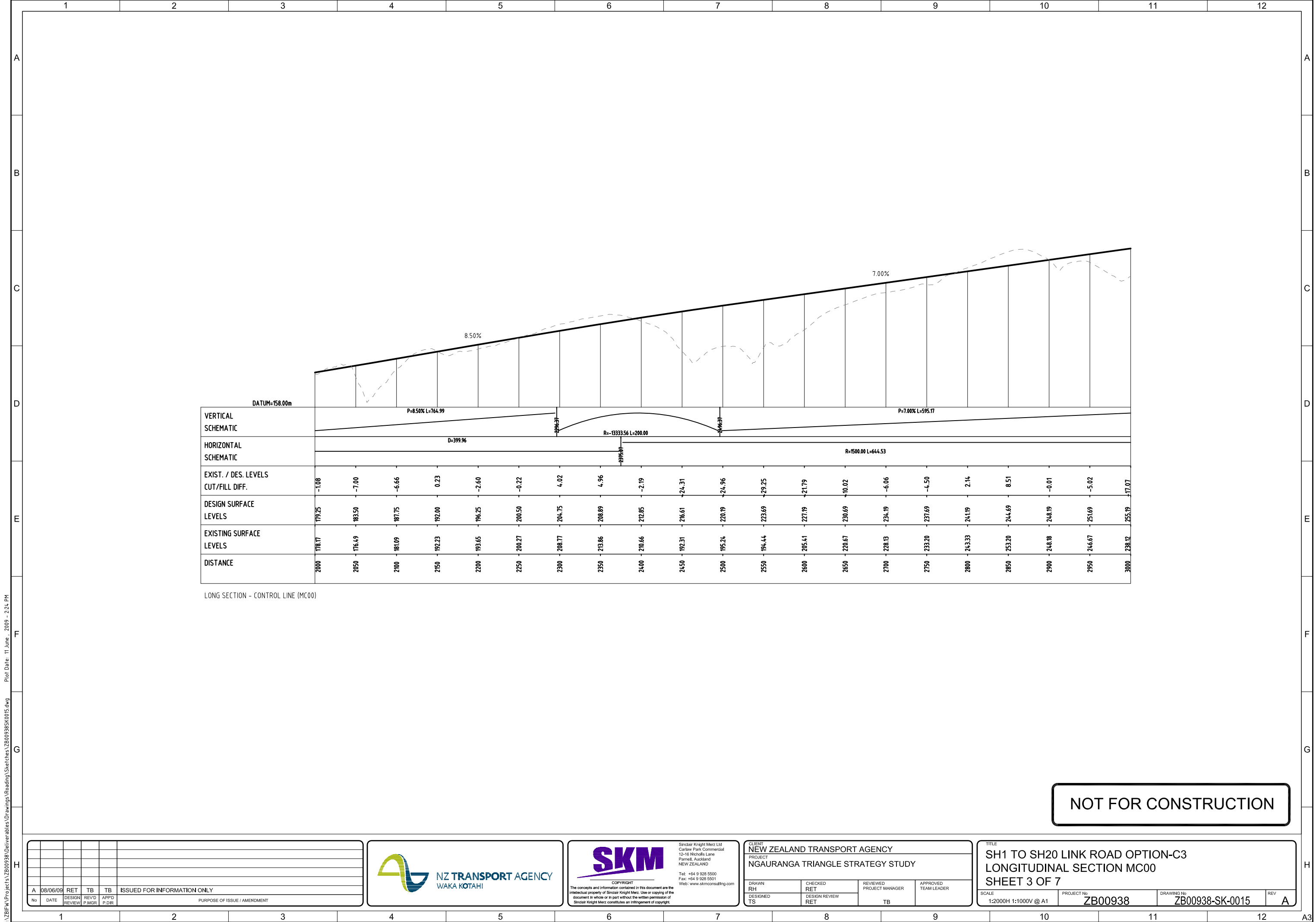
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CLIENT NEW ZEALAND TRANSPORT AGENCY			
PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

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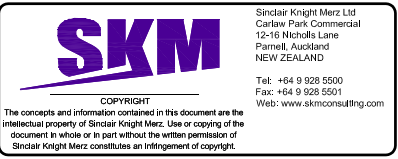
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LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

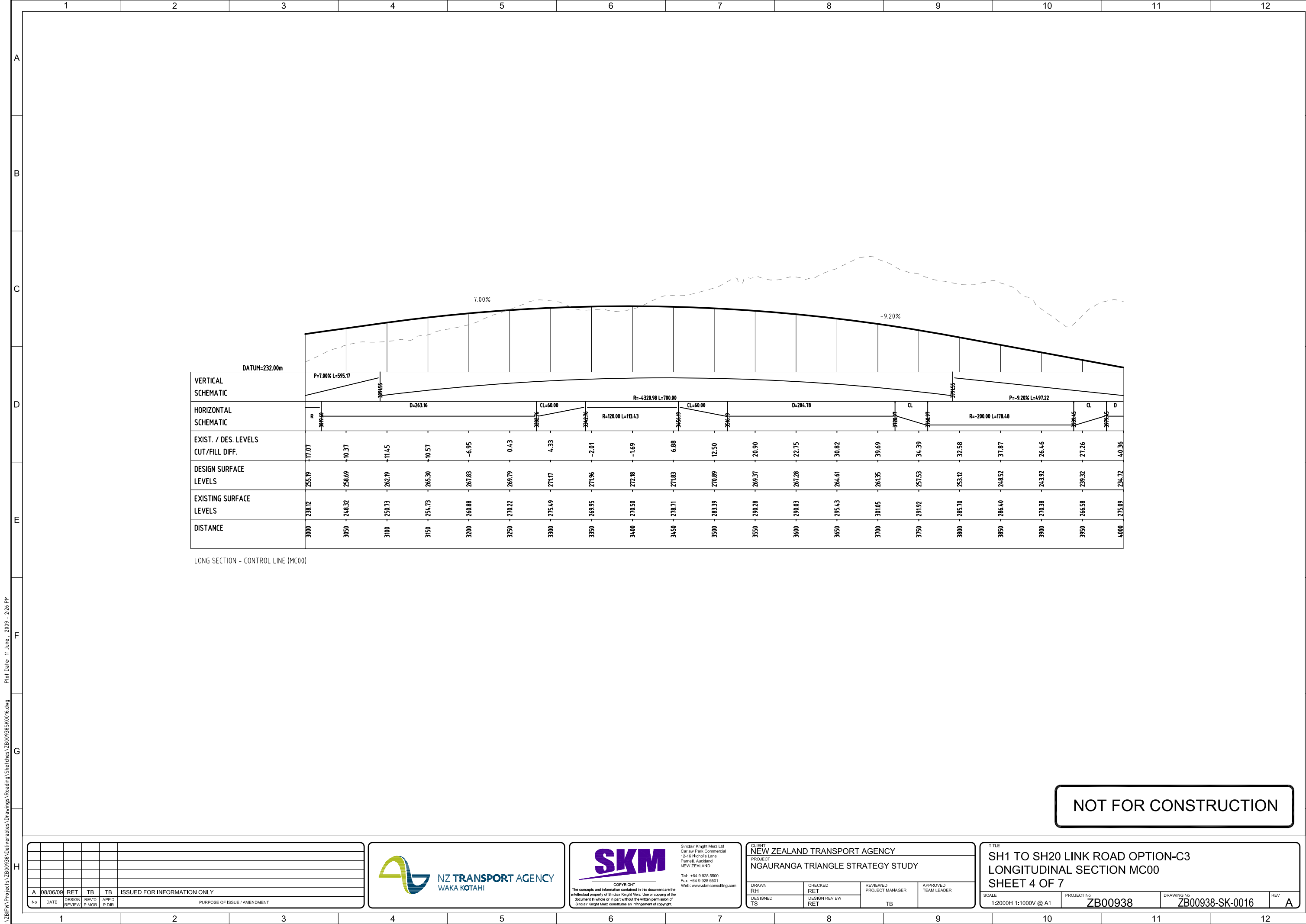
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CLIENT NEW ZEALAND TRANSPORT AGENCY			
PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

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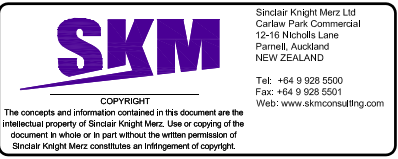


VERTICAL SCHEMATIC																					
HORIZONTAL SCHEMATIC																					
EXIST. / DES. LEVELS CUT/FILL DIFF.	-17.07	-10.37	-11.45	-10.57	-6.95	0.43	4.33	-2.01	-1.69	6.88	-12.50	-20.90	-22.75	-30.82	-39.69	-34.39	-32.58	-37.87	-26.46	-27.26	-40.36
DESIGN SURFACE LEVELS	255.19	258.69	262.19	265.30	267.83	269.79	271.17	271.96	272.18	271.83	270.89	269.37	267.28	264.61	261.35	257.53	253.12	248.52	243.92	239.32	234.72
EXISTING SURFACE LEVELS	238.12	248.32	250.73	254.73	260.88	270.22	275.49	269.95	270.50	278.71	283.39	290.28	290.03	295.43	301.05	291.92	285.70	286.40	270.38	266.58	275.09
DISTANCE	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	4000

LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

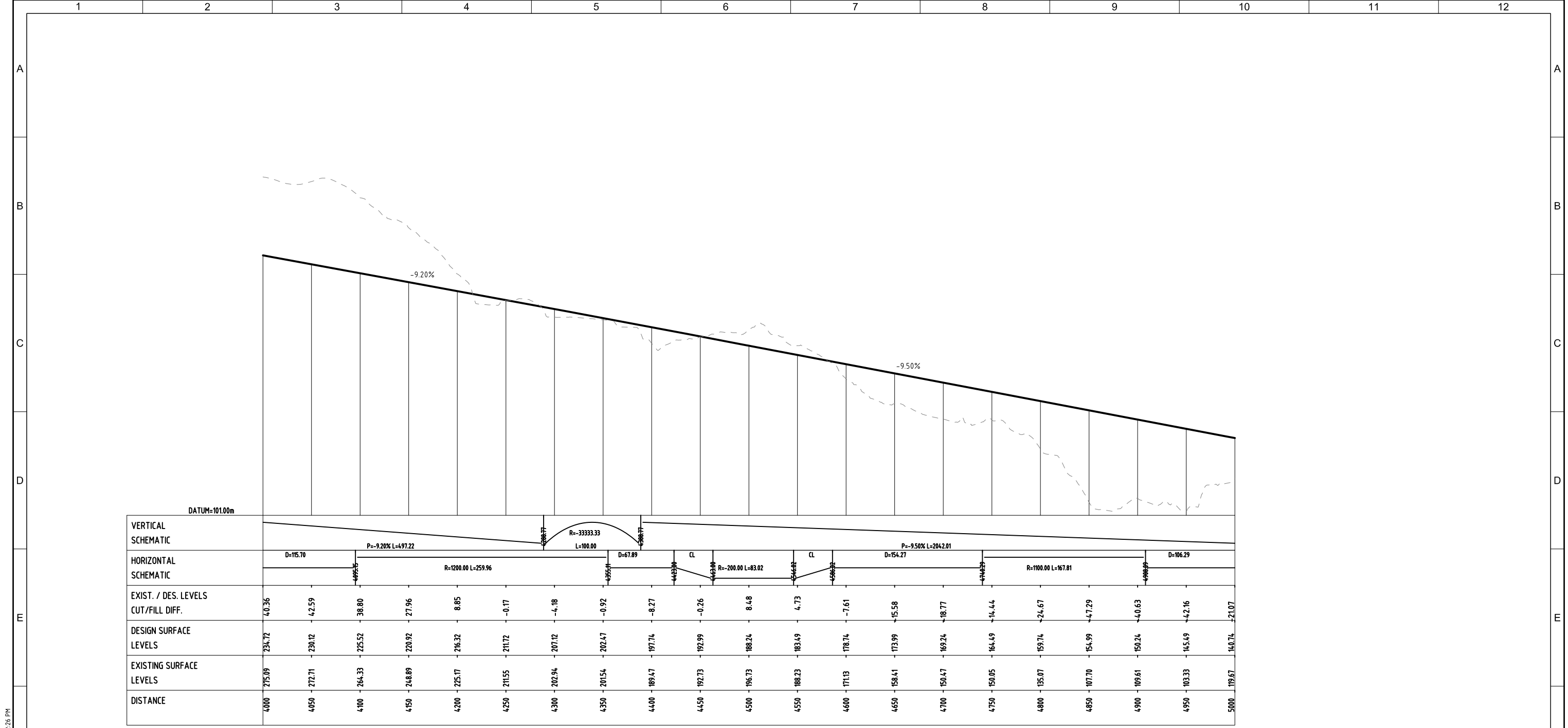
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						PURPOSE OF ISSUE / AMENDMENT



CLIENT NEW ZEALAND TRANSPORT AGENCY			
PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

TITLE SH1 TO SH20 LINK ROAD OPTION-C3 LONGITUDINAL SECTION MC00 SHEET 4 OF 7			
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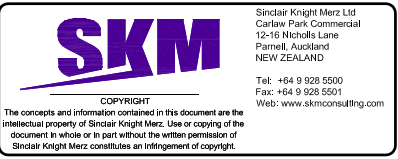


LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

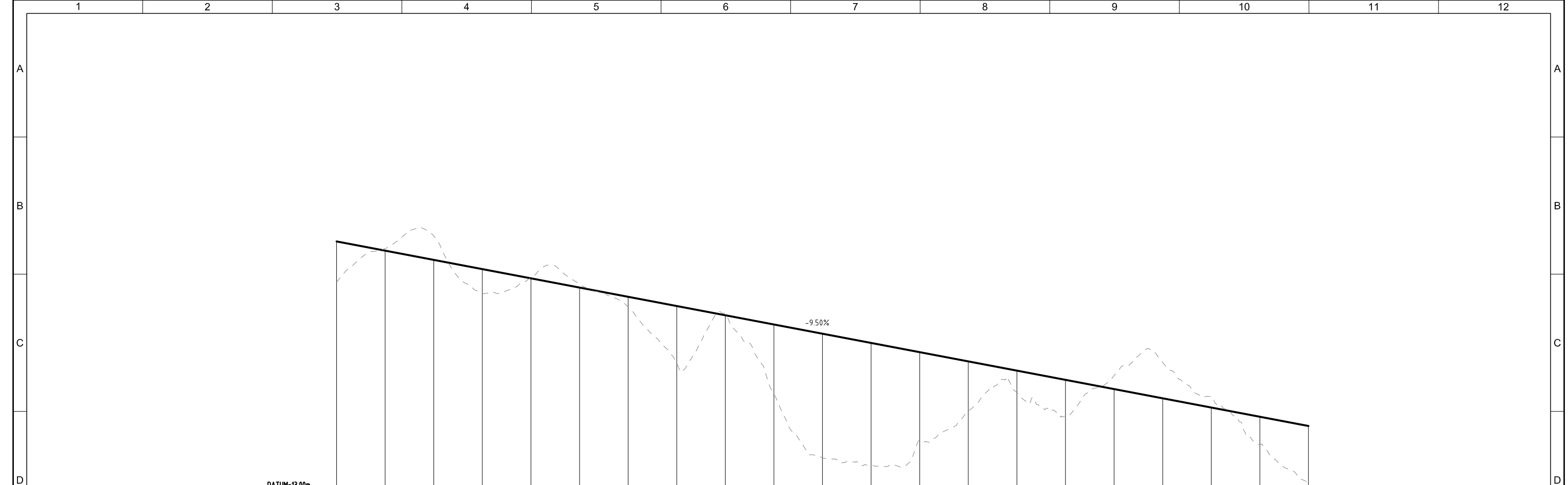
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DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

TITLE SH1 TO SH20 LINK ROAD OPTION-C3 LONGITUDINAL SECTION MC00 SHEET 5 OF 7			
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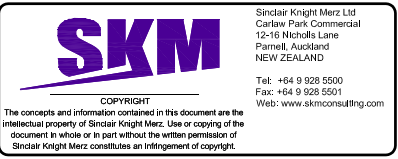


VERTICAL SCHEMATIC																					
HORIZONTAL SCHEMATIC	$R=280.00 \ L=208.80$ $D=214.90$ $P=-9.50\% \ L=2042.01$ $R=400.00 \ L=233.10$ $D=197.50$																				
EXIST. / DES. LEVELS	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900	5950	6000
CUT/FILL DIFF.	-21.07	1.08	12.29	12.51	0.46	1.72	-5.25	29.31	0.79	36.02	63.95	62.82	45.40	25.55	11.34	18.84	7.01	18.44	5.36	14.23	29.84
DESIGN SURFACE LEVELS	14.074	135.99	131.24	126.49	121.74	116.99	112.24	107.49	102.74	97.99	93.24	88.49	83.74	78.99	74.24	69.49	64.74	59.99	55.24	50.49	45.74
EXISTING SURFACE LEVELS	119.67	137.07	143.53	143.98	122.20	118.71	106.99	78.18	103.53	61.97	29.29	25.67	38.34	53.44	62.90	50.65	71.75	78.43	60.60	36.26	15.90
DISTANCE	5000	5050	5100	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850	5900	5950	6000

LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

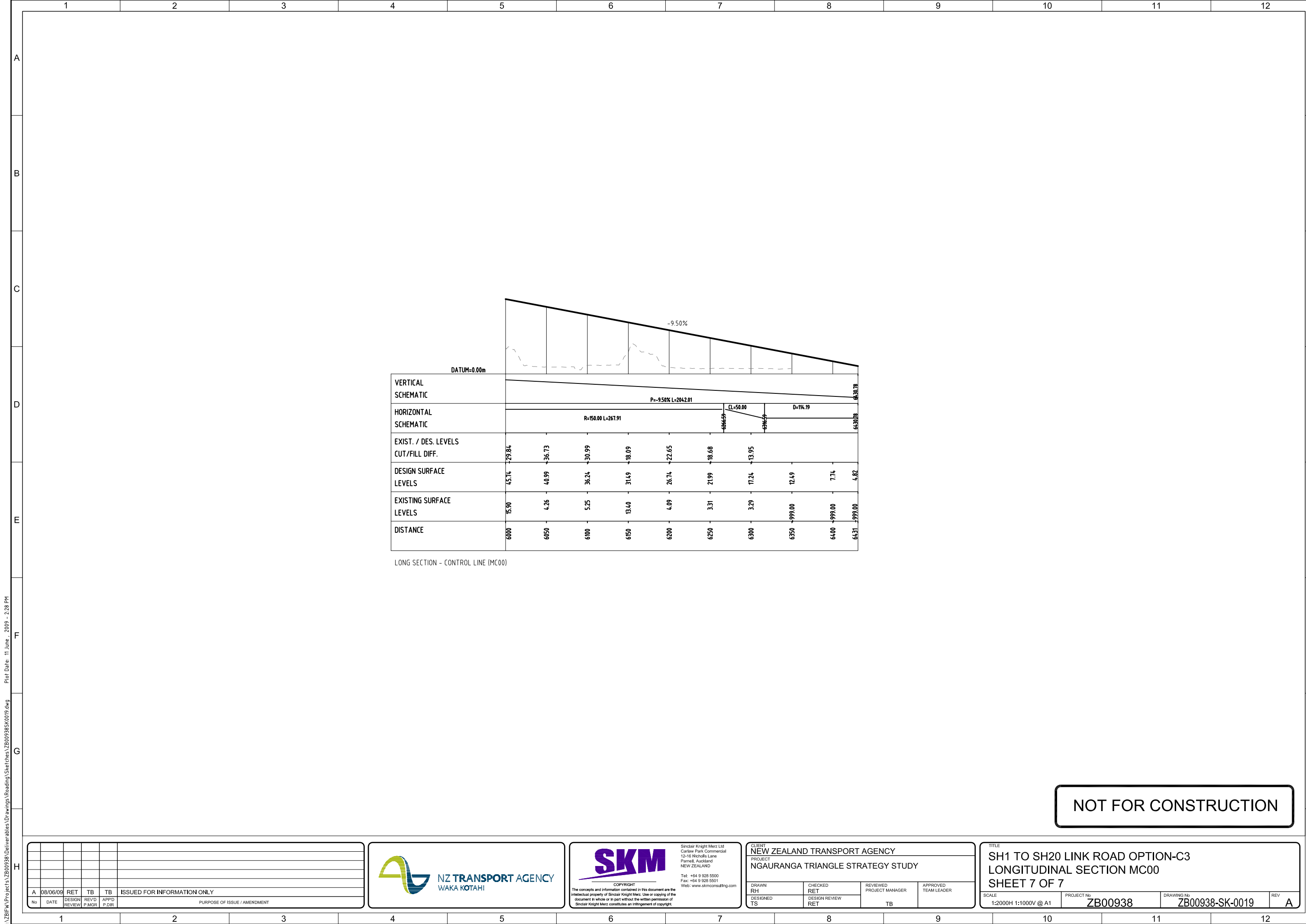
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PROJECT NGAURANGA TRIANGLE STRATEGY STUDY			
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DESIGNED TS	DESIGN REVIEW RET	TB	

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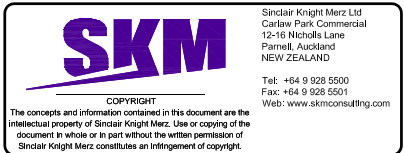


LONG SECTION - CONTROL LINE (MC00)

NOT FOR CONSTRUCTION

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DRAWN RH	CHECKED RET	REVIEWED PROJECT MANAGER	APPROVED TEAM LEADER
DESIGNED TS	DESIGN REVIEW RET	TB	

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