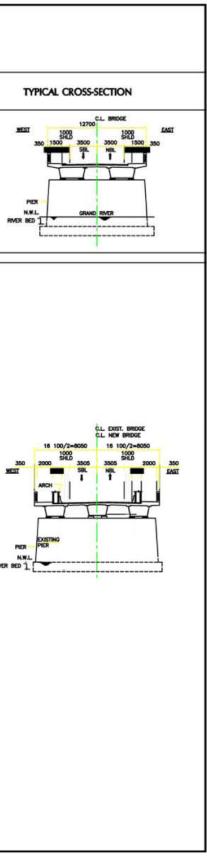
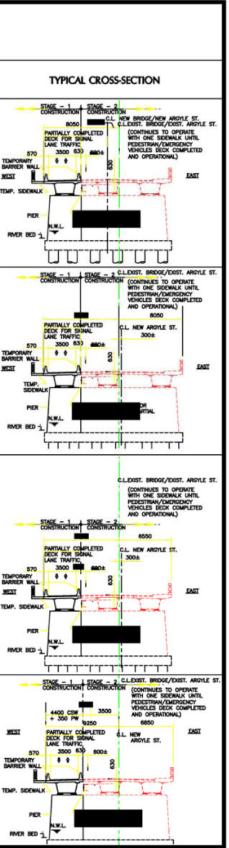
	ALTERNATE C				MILLION		
ALL COS	ALTERNATIVE TS INCLUDING DETOUR COSTS)	DESCRIPTION	BRIDGE	ARCH	DETOUR	TOTAL	PLAN
	BASE OPTION 2 LANE BASE (B = 12 700)	2-LANE FINAL CONFIGURATION WITH STANDARD 1.5m SIDEWALK ON BOTH SIDES,	63	-	-	63	1.5m SIDEWALK
1		NO OFFSET ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	BASE STRUCTURE     SAME FOUNDATION     CONDITION     UNRESTRICTED     ACCESS				1.5m SIDEWALK
2a	2-LANE + ARCH (BY PASS) (B = 16 100)	2-LANE FINAL CONFIGURATION WITH ARCHES AND 20m SIDEWALK ON BOTH SIDES,	77	0.6	0.7	9.0	
		DETOUR VIA BYPASS AND TEMP. PEDESTRIAN CROSSING ON SITE NO OFFSET FOR PERMANENT STRUCTURE ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	COMPRISING * BASE STRUCTURE (63M) • WIDEN S/W (0.4M) • WIDEN DECK TO ACCOMMODATE ARCH (LOM)	STEEL WORK ONLY	COMPRISING • 0.6M FOR PEDESTRIAN CROSSING • 0.1M FOR END TREATMENT PEDESTRIAN BARRIER AND SIGNAL FOR ROUTING TRAFFIC		
2b	2-LANE + ARCH (2 LANE ON BAILEY) (8 = 16 100)	2-LANE FINAL CONFIGURATION WITH ARCHES AND 20m SIDEWALK ON BOTH	73	0.6	23	10.6	2.0m SIDEWALK
		SIDES, DETOUR VIA ON-SITE BAILEY BRIDGE (2 LANE • PEDESTRIAN) NO OFFSET FOR PERMANENT STRUCTURE ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	(SAME AS ABOVE)	STEEL WORK ONLY	COMPRISING • 22M FOR BAILEY STRUCTURE • 0.1M FOR STRUCTURE END DETAIL AND TRAFFIC SIGNALS	,	2.0m SIDEWALK
2c	2-LANE + ARCH (1-LANE ON BAILEY) (B = 16 100)	2-LANE FINAL CONFIGURATION WITH ARCHES AND 2.0m SIDEWALK ON BOTH SIDES,	77	0.6	1.8	10.1	
		ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	(SAME AS ABOVE)	STEEL WORK ONLY	COMPRISING • 17M FOR BAILEY STRUCTURE • 0.1M FOR STRUCTURE END DETAIL AND TRAFFIC SIGNALS		

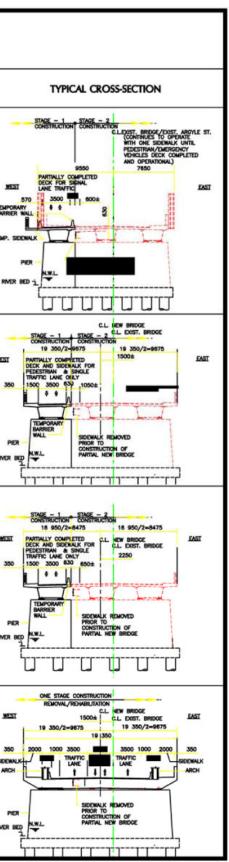
## TABLE 3 – ALTERNATIVES (PRE – PIC #2)



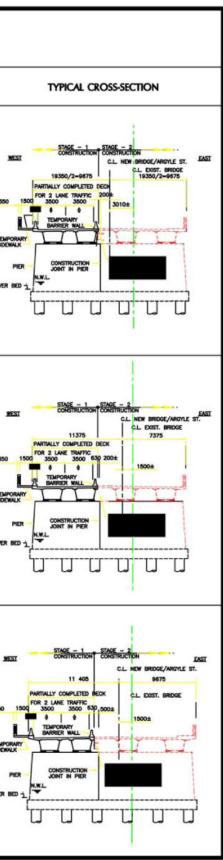
								E OVER GRAND RIVER IN CALEDONIA GE ALTERNATIVES - JAN, 07, 2005
	ALTERNATIVE	DESCRIPTION		COSTS IN M	ILLION			PLAN
(ALL COSTS INCLUDING DETOUR COSTS)		DESCRIPTION	BRIDGE	ARCH	DETOUR	TOTAL		PLAN
	2 LANE BASE WITH STAGE CONSTRUCTION (TO MAINTAIN SINGLE LANE TRAFFIC ON THE BRIDGE FOR 1	NSTRUCTION CONFIGURATION WITH N SINGLE LANE THE BRIDGE FOR 1 ON SEASON SIDEWALK ON BOTH SIDES,	67	1.6	0.6	-	8.9	2.0m SIDEWALK
Ju	CONSTRUCTION SEASON (SAY 9 MONTHS)) (B = 16 100)		COMPRISING BASE STRUCTURE (6.3M)     WIDEN S/W (0.4M)	* STEEL WORK ONLY (0.64) * WIDEN DECK TO ACCOMMODATE ARCH (1.04)				2.0m SIDEWALK
	2 LANE BASE WITH 1.5m OVERBUILD TO WEST (SAME TRAFFIC	2-LANE FINAL CONFIGURATION WITH ARCHES, WEST SIDEWALK	67	1.6	0.6	0.6	9.5	
	ARRANCEMENT AS IN 3a) (B = 17 600)	WIDENED TO 3.5m, EAST SIDEWALK MAINTAINS AT 2.0m	Comprising *Base Structure (63M) • WIDEN SAW (0.4M)	*STEEL WORK ONLY (0.6M) *10M WIDEN DECK FOR ARCH	(SAME AS ABOVE)	0.6M WIDEN DECK FOR OVERBUILT		2.0m SIDEWALK
	2 LANE BASE WITH 15m OVERBUILD TO WEST, ELIMINATE EAST SIDEWALK (SAME TRAFFIC ARRANCEMENT AS IN 3a) (B = 15 300)	ILD TO WEST, TE EAST ARCHES, K WITH 3.5m SIDEWALK FRIC ON WEST, KENT AS IN 3a) SIDEWALK ON EAST SIDE ELIMINATED .	6.5	16	0.6	-	87	
3c			COMPRISING • BASE STRUCTURE (63M) • WIDEN S/W (0.2M)	<ul> <li>STEEL WORK ONLY (0.6M)</li> <li>1.0M WIDEN DECK FOR ARCH</li> </ul>	(SAME AS ABOVE)			3.5m SIDEWALK SCOTIA BANK ON STREET PARKING EXISTING COMMERCIAL TOLL HOUSE
	2 LANE BASE WITH 24m OVERBUILD TO WEST (SAME TRAFFIC	2-LANE FINAL CONFIGURATION WITHOUT ARCHES, MAINTAIN CENTRE LINE	67	-	0.6	0.9	8.2	
3d	ARRANCEMENT AS IN 3a) (B = 16 100)	I 30) MAINTAIN CENTRE LINE UNCHANGED WEST SIDEWALK WIDENED TO 4.4m, EAST SIDEWALK MAINTAINS AT 2.0m ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	COMPRISING • BASE STRUCTURE (6.3M) • WIDEN S/W (0.4M)		(SAME AS ABOVE)	0.9M WIDEN DECK FOR OVERBUILT		4.4m SIDEWALK 2.0m SIDEWALK 2.0m SIDEWALK 4.4m SIDEWALK 2.0m SIDEWALK 2.0m SIDEWALK 4.4m SIDEWALK 2.0m SIDEWALK CON STREET PARKING EXISTING COMMERCIAL TOLL HOUSE

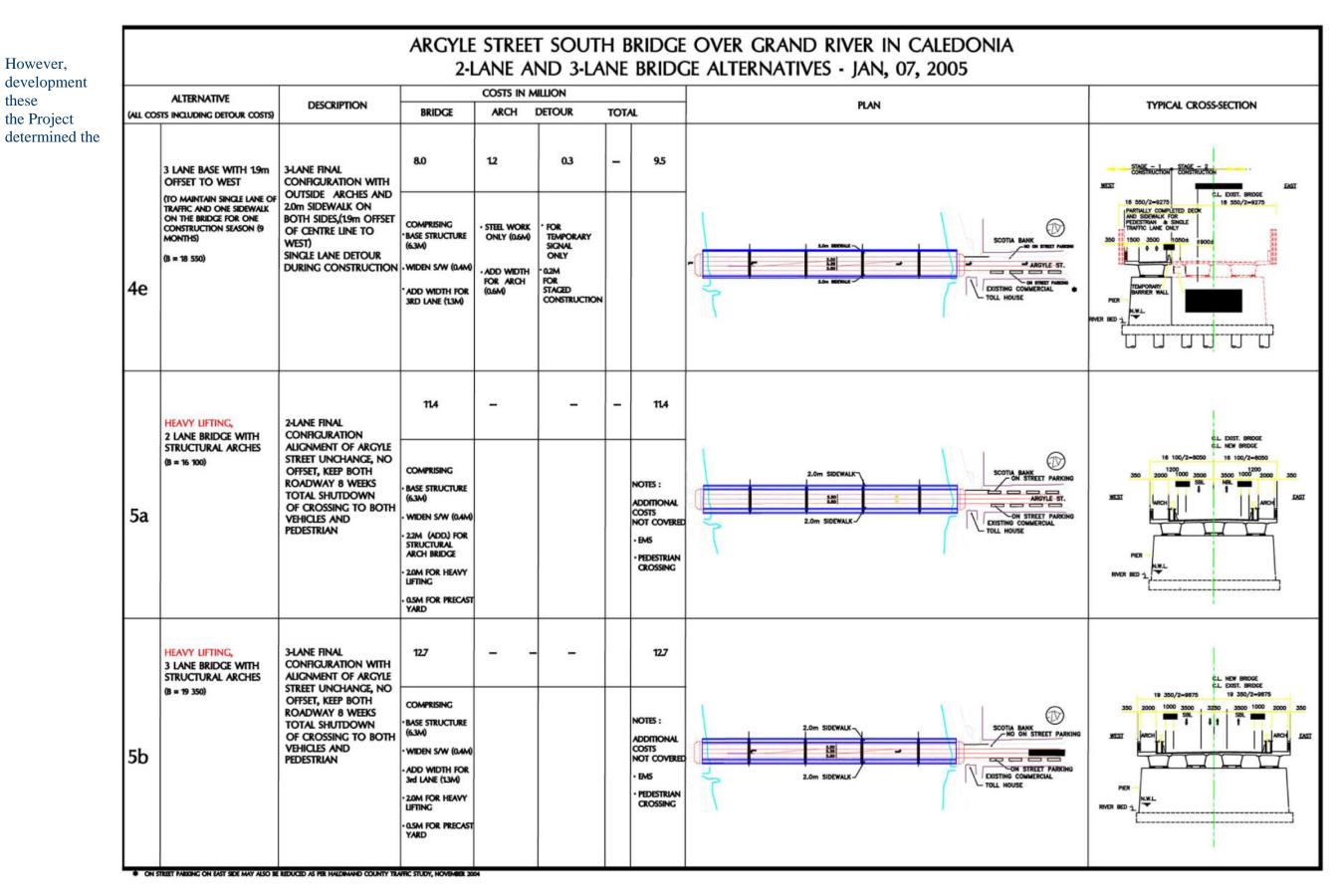


								OVER GRAND RIVER IN CALEDONIA GE ALTERNATIVES - JAN, 07, 2005		
	ALTERNATIVE	DECONTRACT		COSTS IN M	ILION					
(ALL COS	(ALL COSTS INCLUDING DETOUR COSTS)		BRIDGE ARCH DETOUR TOTAL					PLAN		
	2 LANE BASE WITH STAGE CONSTRUCTION (SAME TRAFFIC ARRANCEMENT AS IN 30)	2-LANE FINAL CONFIGURATION WITH OUTSIDE ARCHES MAINTAIN CENTRE LINE	67	12	0.6	07	9.2	3.9m SIDEWALK		
3e	(B = 17 200)	UNCHANGED, WEST SIDEWALK WIDENED TO 3.90m, EAST SIDEWALK MAINTAINS AT 2.0m	COMPRISING BASE STRUCTURE (6.3M)     WIDEN S/W (0.4)	STEEL WORK ONLY (0.6M) WIDEN DECK TO ACCOMMODATE ARCH (0.6M)		BUILT		2.0m SIDEWALK-7		
4a	3 LANE BASE WITH 15m OFFSET TO WEST (TO MAINTAIN SINGLE LANE OF TRAFFIC AND ONE SIDEWALK ON THE BRIDGE FOR ONE CONSTRUCTION SEASON (9 MONTHS) (B = 19 350)	3-LANE FINAL CONFIGURATION WITH ARCHES AND 2.0m SIDEWALK ON BOTH SIDES, SINGLE LANE DETOUR DURING CONSTRUCTION	8.0 COMPRISING * BASE STRUCTURE (63M) • WIDEN S/W (0.4) • ADD WIDTH FOR 3RD LANE (13M)	16 - STEEL WORK ONLY (0.6M) - ADD WIDTH FOR ARCH (10M)	0.3 * 0.1M FOR TEMPORARY • SIGNAL ONLY 0.2M FOR STACED CONSTRUCTION	-	9.9	2.0m SIDEWALK NO ON STREET PARKING 2.0m SIDEWALK 2.0m SIDEWALK 2.0m SIDEWALK RVE	350 Pil	
4a-1	(SAME TRAFFIC ARRANGEMENT AS 4a) (B = 16 950)	3-LANE FINAL CONFIGURATION WITHOUT ARCHES AND 20m SIDEWALK ON BOTH SIDES, SINGLE LANE DETOUR DURING CONSTRUCTION ALTERNATIVE ESTABLISHED FOR COMPARATIVE COST ONLY.	8.0 COMPRISING BASE STRUCTURE (6.3M) WIDEN S/W (0.4M) ADD WIDTH FOR 3RD LANE (1.3M)	-	0.3 • 0.1M FOR TEMPORARY SIGNAL ONLY • 0.2M FOR STAGED CONSTRUCTION	-	83	2.0m SIDEWALK 2.0m SIDEWALK 2.0m SIDEWALK 2.0m SIDEWALK EXISTING CONMERCIAL Reve	350 PE	
4a-2	OFFSET TO WEST (BRIDGE CLOSED, VEHICLES AND PEDESTRIAN TO CROSS RMFR LINING SINGE LANE	3-LANE FINAL CONFIGURATION WITH STRUCTURAL ARCHES AND 2.0m SIDEWALK ON BOTH SIDES, DETOUR VIA ON-SITE BAILEY BRIDGE (1 LANE + PEDESTRIAN)	10.2 COMPRISING BASE STRUCTURE (6.3M) WIDEN SAW (0.4M) -22M (ADD) FOR STRUCTURAL ARCH BRIDGE - ADD WIDTH FOR 3RD LANE (1.3M)	-	1.8 COMPRISING 1.17M FOR SINGLE LANE BAILEY STRUCTURE 0.01M FOR STRUCTURE END DETAIL AND TRAFFIC SIGNALS	-	12.0	2.0m SIDEWALK TEMP. STRUCTURE SCOTIA BANK NO ON STREET PARKING 2.0m SIDEWALK STRUCTURE ON STREET PARKING 2.0m SIDEWALK	PI	



								E OVER GRAND RIVER IN CALEDONIA GE ALTERNATIVES - JAN, 07, 2005		
ALTERNATIVE DESCRIPTION				COSTS IN M				PLAN		
(ALL COSTS INCLUDING DETOUR COSTS)		DESCRIPTION	BRIDGE	ARCH	DETOUR	TOTAL				
	3-LANE WITH 3.0m OFFSET TO WEST TO FACILITATE 2-LANE DETOUR (TO MAINTAIN TWO TRAFFIC LANES AND ONE SIDEWALK ON BRIDGE DURING STAGE 2 CONSTRUCTION) (B = 19 350)	3-LANE FINAL CONFIGURATION WITH ARCHES AND 2.0m SIDEWALK ON BOTH SIDES, TWO LANE DETOUR DURING CONSTRUCTION 3.0 CENTRELINE OFFSET TO WEST	8.0	16	0.6	-	10.2		×	
4b			(SAME AS 4a)	* STEEL WORK ONLY (0.6M) * ADD WIDTH FOR ARCH (1.0M)	COMPRISING • 0.3M FOR PEDESTRIAN DECK • 0.1M FOR SIGNALS • 0.2M FOR STAGED CONSTRUCTION				350 TEMPO SOEW	
4c	3-LANE WITH WEST SIDE PEDESTRIAN PROMENADE AND NO EAST SIDEWALK (EFFECTIVE SHIFT 15m) (SAME TRAFFIC ARRANGEMENT AS 4b) (B = 18 750)	3-LANE FINAL CONFIGURATION WITH ARCHES, WEST SIDEWALK WIDENED TO 37m AND NO SIDEWALK ON EAST SIDE, TWO LANE DETOUR DURING CONSTRUCTION	7.9	16	0.6	-	10.1		ж	
			COMPRISING * BASE STRUCTURE (63M) * WIDEN S/W (0.3) * ADD WIDTH FOR 3RD LANE (13M)	· STEEL WORK ONLY (0.6M) · ADD WIDTH FOR ARCH (10M)	(SAME AS ABOVE)			3.7m SIDEWALK	350 TEMPO SIDEW	
4d	3-LANE WITH ADDITIONAL WIDENING TO WEST (BFECTIVE SHIFT 15m FOR CL OF THE ARGYLE STREET AND BRIDGE) (SAME TRAFFIC ARRANCEMENT AS 4b) (B = 21 080)	3-LANE FINAL CONFIGURATION WITH ARCHES, WEST SIDEWALK WIDENED TO 3/7m AND 2.0m SIDEWALK ON EAST SIDE, TWO LANE DETOUR DURING CONSTRUCTION	8.0	16	0.6	0.7	10.9		ME	
			COMPRISING *BASE STRUCTURE (63M) *WIDEN S/W (0.4M) *ADD WIDTH FOR 3RD LANE (13M)	* STEEL WORK ONLY (0.6M) • ADD WIDTH FOR ARCH (10M)	(SAME AS ABOVE)	• WIDEN DECK TO CORRECT ALICNMENT (0.7M)		2.0m SIDEWALK	350 TEMPOR SIDEWALI PI	





during the and review of alternatives, Team