

## Appendix B. Route Option Combinations

### **B.1. Example of approach used**

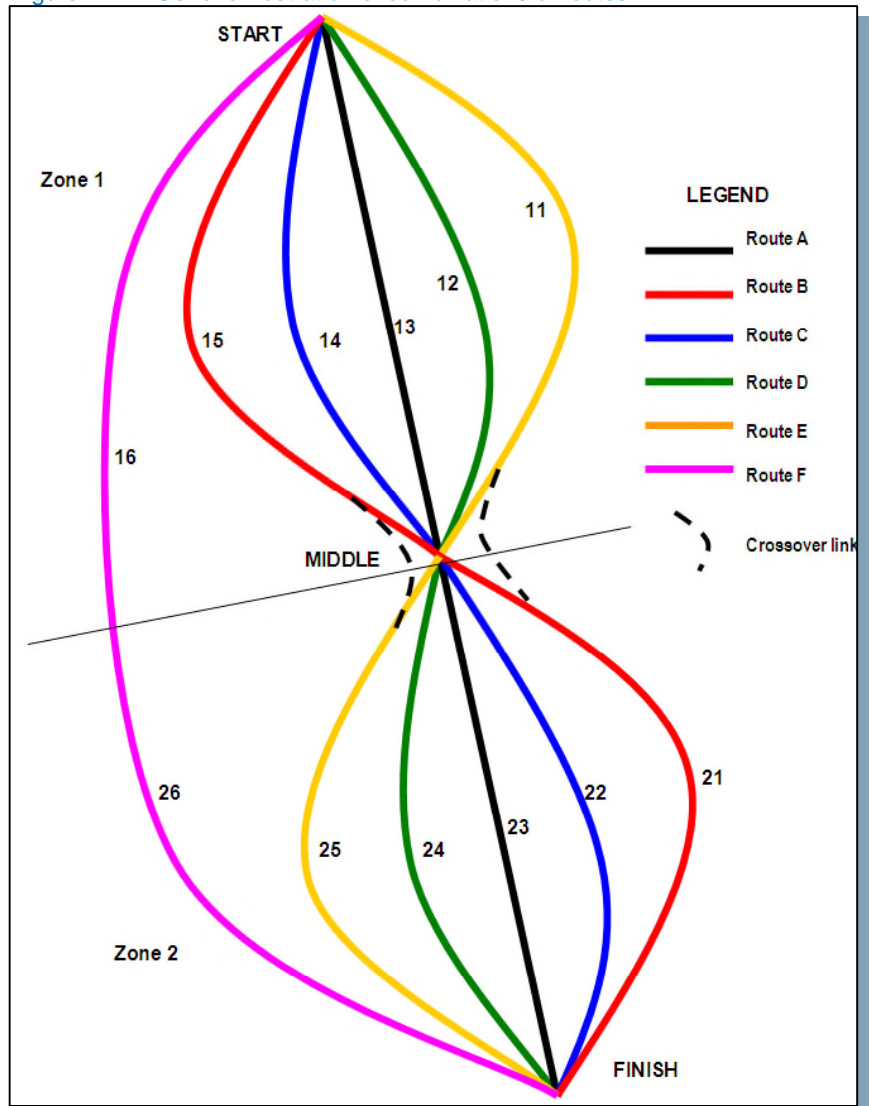
This example (Figure B.1) shows 6 basic routes from START to FINISH most of which happen to (more or less) intersect at MIDDLE. Thus, the 6 basic routes become up to 26 separate “Route Option Combinations” to be considered (i.e. red from START to MIDDLE plus each of the other colours from MIDDLE to FINISH, etc.).

The basic route options have been divided into 2 zones and the “links” within each zone have been given numbers designating them as the first link in zone one (11) or the fifth link in zone 2 (25) etc. This allows each constituent part of a route option combination to be uniquely identified and appraised. Route R2 would therefore be defined as:

- ROUTE R2: 15 21
- and Route E would be defined as
- ROUTE R5: 11 25
- while combination route options would also exist as
- COMB 01: 15 22
- COMB 02: 15 23
- COMB 04: 15 24
- COMB 05: 15 25, etc.

Each link can be appraised individually once, however, each route option combination must be considered from beginning to end in an overall evaluation.

Figure B.1: Generic illustration of combinations of routes



**B.2. Breakdown of Route Option Combinations**

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Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
A	1	11	21	31	41	51	61	71	81	91	100
	2	11	21	31	41	51	61	71	81	93	100
	3	11	21	31	41	51	61	71	82	91	100
	4	11	21	31	41	51	61	71	82	93	100
	5	11	21	31	41	51	61	71	87	92	100
	6	11	21	31	41	51	61	71	87	94	100
	7	11	21	31	41	51	61	71	88	92	100
	8	11	21	31	41	51	61	71	88	94	100
	9	11	21	31	41	51	62	72	83	91	100
	10	11	21	31	41	51	62	72	83	93	100
	11	11	21	31	41	51	62	72	84	92	100
	12	11	21	31	41	51	62	72	84	94	100
	13	11	21	31	42	52	63	71	81	91	100
	14	11	21	31	42	52	63	71	81	93	100
	15	11	21	31	42	52	63	71	82	91	100
	16	11	21	31	42	52	63	71	82	93	100
	17	11	21	31	42	52	63	71	87	92	100
	18	11	21	31	42	52	63	71	87	94	100
	19	11	21	31	42	52	63	71	88	92	100
	20	11	21	31	42	52	63	71	88	94	100
	21	11	21	31	42	52	64	72	83	91	100
	22	11	21	31	42	52	64	72	83	93	100
	23	11	21	31	42	52	64	72	84	92	100
	24	11	21	31	42	52	64	72	84	94	100
	25	11	21	31	43	53	63	71	81	91	100
	26	11	21	31	43	53	63	71	81	93	100
	27	11	21	31	43	53	63	71	82	91	100
	28	11	21	31	43	53	63	71	82	93	100
	29	11	21	31	43	53	63	71	87	92	100
	30	11	21	31	43	53	63	71	87	94	100
	31	11	21	31	43	53	63	71	88	92	100
	32	11	21	31	43	53	63	71	88	94	100
	33	11	21	31	43	53	64	72	83	91	100
	34	11	21	31	43	53	64	72	83	93	100
C	35	11	21	31	43	53	64	72	84	92	100
	36	11	21	31	43	53	64	72	84	94	100
	37	11	21	31	43	54	66	72	83	91	100

Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
	38	11	21	31	43	54	66	72	83	93	100
	39	11	21	31	43	54	66	72	84	92	100
	40	11	21	31	43	54	66	72	84	94	100
	41	11	21	32	47	55	63	71	81	91	100
	42	11	21	32	47	55	63	71	81	93	100
	43	11	21	32	47	55	63	71	82	92	100
	44	11	21	32	47	55	63	71	82	94	100
	45	11	21	32	47	55	63	71	87	92	100
	46	11	21	32	47	55	63	71	87	94	100
	47	11	21	32	47	55	63	71	88	92	100
	48	11	21	32	47	55	63	71	88	94	100
	49	11	21	32	47	55	65	72	83	91	100
	50	11	21	32	47	55	65	72	83	93	100
F	51	11	21	32	47	55	65	72	84	92	100
	52	11	21	32	47	55	65	72	84	94	100
	53	11	21	32	47	56	67	73	85	91	100
	54	11	21	32	47	56	67	73	85	93	100
	55	11	21	32	47	56	67	73	86	92	100
	56	11	21	32	47	56	67	73	86	94	100
	57	11	22	33	41	51	61	71	81	91	100
	58	11	22	33	41	51	61	71	81	93	100
	59	11	22	33	41	51	61	71	82	91	100
	60	11	22	33	41	51	61	71	82	93	100
	61	11	22	33	41	51	61	71	87	92	100
	62	11	22	33	41	51	61	71	87	94	100
	63	11	22	33	41	51	61	71	88	92	100
	64	11	22	33	41	51	61	71	88	94	100
	65	11	22	33	41	51	62	72	83	91	100
	66	11	22	33	41	51	62	72	83	93	100
	67	11	22	33	41	51	62	72	84	92	100
	68	11	22	33	41	51	62	72	84	94	100
	69	11	22	33	42	52	63	71	81	91	100
	70	11	22	33	42	52	63	71	81	93	100
	71	11	22	33	42	52	63	71	82	91	100
	72	11	22	33	42	52	63	71	82	93	100
	73	11	22	33	42	52	63	71	87	92	100
	74	11	22	33	42	52	63	71	87	94	100

Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
	75	11	22	33	42	52	63	71	88	92	100
	76	11	22	33	42	52	63	71	88	94	100
	77	11	22	33	42	52	64	72	83	91	100
	78	11	22	33	42	52	64	72	83	93	100
	79	11	22	33	42	52	64	72	84	92	100
	80	11	22	33	42	52	64	72	84	94	100
	81	11	22	33	43	53	63	71	81	91	100
	82	11	22	33	43	53	63	71	81	93	100
	83	11	22	33	43	53	63	71	82	91	100
	84	11	22	33	43	53	63	71	82	93	100
	85	11	22	33	43	53	63	71	87	92	100
	86	11	22	33	43	53	63	71	87	94	100
	87	11	22	33	43	53	63	71	88	92	100
	88	11	22	33	43	53	63	71	88	94	100
	89	11	22	33	43	53	64	72	83	91	100
	90	11	22	33	43	53	64	72	83	93	100
	91	11	22	33	43	53	64	72	84	92	100
	92	11	22	33	43	53	64	72	84	94	100
	93	11	22	33	43	54	66	72	83	91	100
	94	11	22	33	43	54	66	72	83	93	100
	95	11	22	33	43	54	66	72	84	92	100
	96	11	22	34	44	51	61	71	81	91	100
	97	11	22	34	44	51	61	71	81	93	100
<b>B</b>	98	11	22	34	44	51	61	71	82	91	100
	99	11	22	34	44	51	61	71	82	93	100
	100	11	22	34	44	51	61	71	87	92	100
	101	11	22	34	44	51	61	71	87	94	100
	102	11	22	34	44	51	61	71	88	92	100
	103	11	22	34	44	51	61	71	88	94	100
	104	11	22	34	44	51	62	72	83	91	100
	105	11	22	34	44	51	62	72	83	93	100
	106	11	22	34	44	51	62	72	84	92	100
	107	11	22	34	44	51	62	72	84	94	100
	108	11	22	34	45	52	63	71	81	91	100
	109	11	22	34	45	52	63	71	81	93	100
	110	11	22	34	45	52	63	71	82	91	100
	111	11	22	34	45	52	63	71	82	93	100

Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
	112	11	22	34	45	52	63	71	87	92	100
	113	11	22	34	45	52	63	71	87	94	100
	114	11	22	34	45	52	63	71	88	92	100
	115	11	22	34	45	52	63	71	88	94	100
	116	11	22	34	45	52	64	72	83	91	100
	117	11	22	34	45	52	64	72	83	93	100
	118	11	22	34	45	52	64	72	84	92	100
	119	11	22	34	45	52	64	72	84	94	100
<b>D</b>	120	11	22	35	46	53	63	71	81	91	100
	121	11	22	35	46	53	63	71	81	93	100
	122	11	22	35	46	53	63	71	82	91	100
	123	11	22	35	46	53	63	71	82	93	100
	124	11	22	35	46	53	63	71	87	92	100
	125	11	22	35	46	53	63	71	87	94	100
	126	11	22	35	46	53	63	71	88	92	100
	127	11	22	35	46	53	63	71	88	94	100
	128	11	22	35	46	53	64	72	83	91	100
	129	11	22	35	46	53	64	72	83	93	100
	130	11	22	35	46	53	64	72	84	92	100
	131	11	22	35	46	53	64	72	84	94	100
	132	11	22	35	46	54	66	72	83	91	100
	133	11	22	35	46	54	66	72	83	93	100
<b>E</b>	134	11	22	35	46	54	66	72	84	92	100
	135	11	22	35	46	54	66	72	84	94	100
	136	11	22	35	48	55	63	71	81	91	100
	137	11	22	35	48	55	63	71	81	93	100
	138	11	22	35	48	55	63	71	82	91	100
	139	11	22	35	48	55	63	71	82	93	100
	140	11	22	35	48	55	63	71	87	92	100
	141	11	22	35	48	55	63	71	87	94	100
	142	11	22	35	48	55	63	71	88	92	100
	143	11	22	35	48	55	63	71	88	94	100
	144	11	22	35	48	55	65	72	83	91	100
	145	11	22	35	48	55	65	72	83	93	100
	146	11	22	35	48	55	65	72	84	92	100
	147	11	22	35	48	55	65	72	84	94	100
	148	11	22	35	48	56	67	73	85	91	100

Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
	149	11	22	35	48	56	67	73	85	93	100
	150	11	22	35	48	56	67	73	86	92	100
	151	11	22	35	48	56	67	73	86	94	100
	152	11	23	36	46	53	63	71	81	91	100
	153	11	23	36	46	53	63	71	81	93	100
	154	11	23	36	46	53	63	71	82	91	100
	155	11	23	36	46	53	63	71	82	93	100
	156	11	23	36	46	53	63	71	87	92	100
	157	11	23	36	46	53	63	71	87	94	100
	158	11	23	36	46	53	63	71	88	92	100
	159	11	23	36	46	53	63	71	88	94	100
	160	11	23	36	46	53	64	72	83	91	100
	161	11	23	36	46	53	64	72	83	93	100
	162	11	23	36	46	53	64	72	84	92	100
	163	11	23	36	46	53	64	72	84	94	100
	164	11	23	36	46	54	66	72	83	91	100
	165	11	23	36	46	54	66	72	83	93	100
	166	11	23	36	46	54	66	72	84	92	100
	167	11	23	36	46	54	66	72	84	94	100
	168	11	23	36	48	55	63	71	81	91	100
	169	11	23	36	48	55	63	71	81	93	100
	170	11	23	36	48	55	63	71	82	91	100
	171	11	23	36	48	55	63	71	82	93	100
	172	11	23	36	48	55	63	71	87	92	100
	173	11	23	36	48	55	63	71	87	94	100
	174	11	23	36	48	55	63	71	88	92	100
	175	11	23	36	48	55	63	71	88	94	100
	176	11	23	36	48	55	65	72	83	91	100
	177	11	23	36	48	55	65	72	83	93	100
	178	11	23	36	48	55	65	72	84	92	100
	179	11	23	36	48	55	65	72	84	94	100
<b>G</b>	180	11	23	36	48	56	67	73	85	91	100
	181	11	23	36	48	56	67	73	85	93	100
	182	11	23	36	48	56	67	73	86	92	100
	183	11	23	36	48	56	67	73	86	94	100
	184	11	24	37	49	57	68	73	85	91	100
	185	11	24	37	49	57	68	73	85	93	100

Route	Combination Nr	Link Number									
		Zone Number									
		1	2	3	4	5	6	7	8	9	10
<b>H</b>	186	11	24	37	49	57	68	73	86	92	100
	187	11	24	37	49	57	68	73	86	94	100

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