

APPENDIX D: RELIEF ROAD MODELLING SUMMARY

RELIEF ROAD CORRIDOR OPTIONS - APPRAISAL SUMMARY

Initial VISUM modelling of five possible relief road corridors has produced results, as follows, assessed against a Do Minimum scenario. Green indicates a reduction, Red indicates an increase and Amber indicates minimal change. 'Map Ref' refers to the locations shown on the plan on the following page.

The section following these tables illustrates the locations where the traffic flows have changes as a result of the implementation of a relief road alignment.



AM Flows

Map Ref	Sector	Name	Direction of Tra	AM DM	AM Killinghall	Difference	%age Difference	AM Northern	Difference	%age Difference	AM Inner North	Difference	%age Difference	AM Inner South	Difference	%age Difference	AM Western	Difference	%age Difference
1	3 East	A59 Knaresborough Road	EB	900	879			850	-50	-5.6%	931			856			879		
1	3 East	A59 Knaresborough Road	WB	904	887			815			871		-3.7%	793			865		9 -4.3
2	1 East	A59 Skipton Road	SEB	924	917			855			751			566			875		
2	1 East	A59 Skipton Road	NWB	925	908	-17	-1.8%	791			669			380			860		
	8 East	A658	NEB	937	897	-40	-4.3%	782	-155	-16.5%	1090			1088	151	16.1%	908	-29	
1	8 East	A658	SWB	910	886	-24	-2.6%	809	-101	-11.1%	1123	213	23.4%	1174	264	29.0%	887	-23	3 -2.5
	1 East	A661 Wetherby Road	SEB	721	702	-19	-2.6%	614	-107	-14.8%	513			435			644	-77	7 -10.7
	1 East	A661 Wetherby Road	NWB	666	659	-7	-1.1%	642	-24	-3.6%	537	-129	-19.4%	439	-227	-34.1%	662	-4	4 -0.6
2	0 East	A661 Wetherby Road	EB	1051	1038	-13	-1.2%	935	-116	-11.0%	707	-344	-32.7%	547	-504	-48.0%	992	-59	-5.6
2	0 East	A661 Wetherby Road	WB	801	807	6	0.7%	862	61	7.6%	628	-173	-21.6%	458	-343	-42.8%	821	20	2.5
- 1	0 Harrogate Town Centre	A61 Ripon Road	SB	764	762	-2	-0.3%	797	33	4.3%	780	16	2.1%	759	-5	-0.7%	773		9 1.2
	Harrogate Town Centre	A61 Ripon Road	NB	768				757			675			742			786		
	5 Harrogate Town Centre	A61 Station Parade	SB	936	975			966			948			906			953		
	4 Harrogate Town Centre	A61 West Park	NB	1308	1340			1300			1303			1242			1369		
	9 Harrogate Town Centre	A61 York Place	NEB	167	170			180			198			197			173		6 3.6
	9 Harrogate Town Centre	A61 York Place	SWB	514			1.146.50	498			496			515		0.2%	499		
								2500		100000									
V	3 Knaresborough	A59 York Road	WB	562				293			456			501			552		
§ 8	4 Knaresborough	High Bond End	SB	308	331			146			169			178			289		
3	4 Knaresborough	High Bond End	NB	407	409			292			283			273		-32.9%	398	-9	9 -2.2
	3 Knaresborough	A59 York Road	EB	492	504	12	2.4%	400	-92	-18.7%	477	-15	-3.0%	490	-2	-0.4%	496	4	4 0.8
	6 North	A59 Skipton Road	EB	561	582	21	3.7%	571	10	1.8%	534	-27	-4.8%	467	-94	-16.8%	572	11	1 2.0
9	6 North	A59 Skipton Road	WB	396	379			383			328			300			412		
	1 North	A59 Skipton Road	EB	703	719			691			606			487			686		
	1 North	A59 Skipton Road	WB	733				792			683			540			716		
	2 North	A61 Ripon Road	SB	854				980			946			778			867	13	
	2 North	A61 Ripon Road	NB	621	648			794			752			531			649		
	2 North	Bilton Lane	NEB	62				63		1.6%	62			479			62		0.0
	2 North	Bilton Lane	SWB	72				78		8.3%	73		79000 71	553			77		6.9
<u> </u>	7 South	A61 Leeds Road	SB	612				607			581			596			566		
	7 South	A61 Leeds Road	NB	508				486			473			487			483		-4.9
	8 South	A61 Leeds Road	SB	395	397			391			367			357			379		
	8 South	A61 Leeds Road	NB	553	555			530			504			475			533		
	9 South 9 South	Burn Bridge Lane Burn Bridge Lane	SB NB	460 466	439 467		The second secon	366 438			354 391			322 321			149 299		
	9 30001	burn bridge Lane	IND	466	467	3	0.2%	438	-28	-6.0%	391	-/5	-10.1%	321	-145	-31.1%	299	-167	-33.8
	7 West	B6161 Leathley Lane	NB	502				512			491			501			264		
	7 West	B6161 Leathley Lane	SB	355	416			344			357			347		-2.3%	195		
	2 West	B6162 Otley Road	NEB	376	361			388			330			384		2.1%	347	-29	
1	2 West	B6162 Otley Road	SWB	475	430		-9.5%	417			366			397			358		
. 1	6 West	C241 Penny Pot Lane	SEB	431	434	3	0.7%	430	-1	-0.2%	418	-13	-3.0%	394	-37	-8.6%	338	-93	3 -21.6
- 1	6 West	C241 Penny Pot Lane	NWB	152	156	4	2.6%	166	14	9.2%	160	- 8	5.3%	146	-6	-3.9%	229	77	7 50.7

Relief Road Corridor Options – Appraisal Summary

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PM Flows

					PM		%age	PM		%age	PM		%age	PM		%age	PM		%age
Map Ref	Sector	Name	Direction of Travel	PM DM	Killinghall	Difference	Difference	Northern	Difference	Difference	Inner North	Difference	Difference	Inner South	Difference	Difference	Western	Difference	Difference
1	3 East	A59 Knaresborough Road	EB	955	928	-27	-2.8%	870	-85	-8.9%	900	-55	-5.8%	794	-161	-16.9%	909	-46	-4.89
	3 East	A59 Knaresborough Road	WB	751	720	-31	-4.1%	678		-9.7%	748	-3		614		-18.2%	728		
2	1 East	A59 Skipton Road	SEB	940	931	-9	-1.0%	873	-67	-7.1%	798	-142	-15.1%	673	-267	-28.4%	883	-57	7 -6.19
2	1 East	A59 Skipton Road	NWB	891	882	-9	-1.0%	779	-112	-12.6%	749	-142	-15.9%	484	-407	-45.7%	843	-48	-5.49
1	8 East	A658	NEB	867	828	-39	-4.5%	712			1074	207	23.9%	1086	219	25.3%	855	-12	2 -1.49
1	8 East	A658	SWB	1050	1030	-20	-1.9%	948	-102	-9.7%	1202	152	14.5%	1241		18.2%	1031		
	1 East	A661 Wetherby Road	SEB	706	698	-8	-1.1%	667	-39	-5.5%	586	-120	-17.0%	522	-184	-26.1%	669	-37	7 -5.29
	1 East	A661 Wetherby Road	NWB	594	596	2	0.3%	578			527	-67	-11.3%	409		-31.1%	587	-7	
2	0 East	A661 Wetherby Road	EB	1096	1063	-33	-3.0%	960	-136	-12.4%	765	-331	-30.2%	671		-38.8%	1019	-77	7 -7.09
2	0 East	A661 Wetherby Road	WB	743	739	-4	-0.5%	760	17	2.3%	657	-86	-11.6%	517	-226	-30.4%	752	9	9 1.29
10	0 Harrogate Town Centre	A61 Ripon Road	SB	897	1006	109	12.2%	1008	111	12.4%	975	78	8.7%	959	62	6.9%	957	60	0 6.79
	0 Harrogate Town Centre		NB	1265	1300	35		1278		THE RESERVE TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	1301	36		1263			1269		4 0.39
	5 Harrogate Town Centre		SB	704	747	43		708			676	-28		625			706		
	4 Harrogate Town Centre		NB	1452	1524	72		1523			1516	64		1461	9	0.6%	1506		
	9 Harrogate Town Centre		NEB	340	304	-36		319			295	-45		332			301		
	9 Harrogate Town Centre		SWB	704		6		698			683	-21		665			710		
		1501/ 1 5			710			400		00 50			44 704		- 10	7.00			1.00
	3 Knaresborough	A59 York Road	WB	684				482			604			636			695		
	4 Knaresborough	High Bond End	SB	322	285	-37		241		-25.2%	278		-13.7%	287			296		
	4 Knaresborough	High Bond End	NB	377	381	4	1.1%	220			209		-44.6%	207		2000	344		
	3 Knaresborough	A59 York Road	EB	547	553	6	1.1%	391	-156	-28.5%	514	-33	-6.0%	530	-17	-3.1%	544	-3	-0.59
	6 North	A59 Skipton Road	EB	663	703	40	6.0%	670	7	1.1%	621	-42	-6.3%	546	-117	-17.6%	665	2	2 0.39
	6 North	A59 Skipton Road	WB	440	524	84	19.1%	524	84	19.1%	371	-69	-15.7%	420	-20	-4.5%	553	113	3 25.79
1	1 North	A59 Skipton Road	EB	823	888	65	7.9%	869	46	5.6%	755	-68	-8.3%	543	-280	-34.0%	853	30	3.69
- 1	1 North	A59 Skipton Road	WB	960	951	-9	-0.9%	982	22	2.3%	902	-58	-6.0%	788	-172	-17.9%	952	-8	-0.89
	2 North	A61 Ripon Road	SB	940	1042	102	10.9%	1124	184	19.6%	1033	93	9.9%	844	-96	-10.2%	1044	104	4 11.19
- 3	2 North	A61 Ripon Road	NB	829	805	-24	-2.9%	874	45	5.4%	863	34	4.1%	773	-56	-6.8%	805	-24	-2.99
2:	2 North	Bilton Lane	NEB	211	215	4	1.9%	221	10	4.7%	216	5	2.4%	388	177	83.9%	225	. 14	4 6.69
2:	2 North	Bilton Lane	SWB	135	141	6	4.4%	141	6	4.4%	127	-8	-5.9%	452	317	234.8%	138	3	3 2.2
_	7 South	A61 Leeds Road	SB	550	574	24	4.4%	527	-23	-4.2%	528	-22	-4.0%	523	-27	-4.9%	516	-34	4 -6.29
	7 South	A61 Leeds Road	NB	661	669	8		663			654	-7		615			647		
	8 South	A61 Leeds Road	SB	580	599	19	1.100	597		0.00.00	578	-2	107.555.77	569		-1.9%	541		
	8 South	A61 Leeds Road	NB	700	709	9		706			655	-45		586		-16.3%	680		
	9 South	Burn Bridge Lane	SB	461	428	-33		368			351	-110	-23.9%	337		-26.9%	75		
	9 South	Burn Bridge Lane	NB	337	313	-24		268			245			209			253		
			BCACE.					01.638											
	7 West	B6161 Leathley Lane	NB	372		33		353			353			345			143		
	7 West	B6161 Leathley Lane	SB	538	542	4	0.17 70	501			488	-50		494			368		
	2 West	B6162 Otley Road	NEB	332	310	-22		320		-3.6%	308	-24	-7.2%	302			352		
1.	2 West	B6162 Otley Road	SWB	501	512	11	200000000000000000000000000000000000000	496			495	-6	-1.2%	466		-7.0%	438	-63	
	6 West	C241 Penny Pot Lane	SEB	292	312	20		322			263	-29	The second second second	224		-23.3%	155	1000000	
10	6 West	C241 Penny Pot Lane	NWB	399	471	72	18.0%	486	87	21.8%	454	55	13.8%	445	46	11.5%	421	22	2 5.5%

Relief Road Corridor Options – Modelled Locations























