

The Great Grid Upgrade

North Humber to High Marnham

Preliminary Environmental Information Report

Volume 3: Appendix 14.2 Future Baseline

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nationalgrid

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1. Introduction

- 1.1.1 This section sets out the 2028 future baseline traffic flows for each road link that forms the Primary Access Routes (PARs). This information is based on growth factors extracted from TEMPro between the baseline year of 2024 to the proposed peak of construction activity in 2028, as set out in **Appendix 14.3 Preliminary Construction Effect**.
- 1.1.2 The use of TEMPro v8 software is generally recognised as the industry standard tool for determining traffic growth factors to apply to base flows in order to estimate future year traffic flows. It combines national data (NTEM) and local development plans to provide accurate traffic demand forecasts.
- 1.1.3 Average Daily TEMPro growth factors have been derived for each of the relevant local authority areas forming the study area, with an average being used to determine the overall growth factor. This is set out in Table 1.1.

Table 1.1 – TEMPro Growth factors (2024 to 2028)

Local Authority	Average Daily Growth factor (2024 to 2028)
Bassetlaw	1.0369
East Riding of Yorkshire	1.0345
North Lincolnshire	1.0366
Average	1.036

- 1.1.4 The use of TEMPro growth factors to forecast the future baseline traffic flows has made an allowance for developments within the relevant Local Plan and as such will include some developments within the **Appendix 21.1 Long List of Other Developments**. It is therefore considered that whilst this has made an allowance for any committed developments within the study area, a review of all committed developments has been undertaken and also included where applicable in terms of traffic and transport.
- 1.1.5 Based upon the 2024 baseline traffic flows from Table 3.1 within Appendix 14.1 Traffic and Transport Baseline Conditions and applying the above TEMPro Growth factors from Table 1.1, Table 1.2 presents the future baseline traffic flows forming the PARs. The PARs are presented on Figure 14.1 **Primary Access Routes** in Volume 2.

Table 1.2 – Future 2028 baseline traffic flows on local road links forming Primary Access Routes

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700-1900) AAWT	24hr (AADT)	12hr (0700-1900) AAWT	24hr (AADT)
A1079 Beverley Bypass East (Link PAR 1)	1	16,683	19,121	941	819
	94	16,662	18,751	1,201	1,103
A1079 Beverley Bypass West (Link PAR 2)	2	16,974	19,603	1,123	985
A164 - North of A1079 (Link PAR 3)	0	17,528	20,582	810	697
A164 Beverley Road - Between A1079 and Dunflat Road (Link PAR 4)	3	23,135	26,257	1,287	1,340
Dunflat Road (Link PAR 5)	4	3,507	3,633	171	147
A164 - Between Dunflat Road and B1233/A164 Roundabout (Link PAR 6)	5	23,436	26,806	1,245	1,296
Main Street (Link PAR 7)	No data collected	-	-	-	-
Little Weighton Road (Link PAR 8)	No data collected	-	-	-	-
A164 - Between B1233/A164 Roundabout and A164/Riplingham Road Roundabout (Link PAR 9)	7	23,379	26,529	1,565	1,513
Riplingham Road (Link PAR 10)	8	5,341	5,491	237	200
	9	4,934	5,113	245	211
Rowley Road (Link PAR 11)	8	5,341	5,491	237	200
	9	4,934	5,113	245	211
A164 - Between A164/Riplingham Road Roundabout and Wingfield Farm Roundabout (Link PAR 12)	6	17,304	19,229	1,341	1,302
Lambwell Hill (Link PAR 13)	11	1,693	1,723	38	36
Westoby Lane (Link PAR 14)	10	2,320	2,287	102	87

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
Brick Dike Lane (Link PAR 15)	12	2,026	2,077	103	90
B1230 - Hunsley Road (Link PAR 16)	13	8,056	9,164	512	466
A1034 - Between Hunsley Road and A1079/A1034 Roundabout (North) (Link PAR 17)	85	6,564	7,175	651	606
A1034 - Between Hunsley Road and Beverley Road (South) (Link PAR 18)	84	8,462	9,275	937	880
A1034 - Beverley Road and A63 (Link PAR 19)	84	8,462	9,275	937	880
Beverley Road (Link PAR 20)	No data collected	-	-	-	-
Ellerker Road (Link PAR 21)	16	567	657	30	28
A63 Petuaria Way (South) (Link PAR 22)	96	33,021	39,853	4,861	5,661
Brantingham Road (Link PAR 23)	16	567	657	30	28
Brough Road (Link PAR 24)	14	6,558	7,229	293	260
	15	6,329	6,966	272	245
A63 Petuaria Way (West) (Link PAR 25)	95	30,327	36,733	4,621	5,391
Ings Lane (Link PAR 26)	19	312	350	10	9
Carr Lane (Link PAR 27)	20	335	405	29	26
Tongue Lane (Link PAR 28)	24	541	624	94	75
B1230 Main Road East (Link PAR 29)	23	6,986	7,810	551	492
	22	7,187	8,097	569	516
	98	7,722	8,454	586	520
M62 (Link PAR 30)	97	30,516	37,155	4,534	5,301
A161 Tom Pudding Way (Link PAR 31)	100	6,472	7,219	848	757

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
A161 Swinefleet Road (Link PAR 32)	99	5,341	6,135	199	192
A161 King's Causeway (Link PAR 33)	25	1,340	1,554	101	104
	26	1,335	1,537	94	98
Pennyhill Cottages (Link PAR 34)	No data collected	-	-	-	-
Main Street (Link PAR 35)	No data collected	-	-	-	-
Church Lane (Link PAR 36)	No data collected	-	-	-	-
A161 Field Lane (North of Eastoft) (Link PAR 37)	27	1,348	1,553	99	103
Luddington Road (Link PAR 38)	34	382	400	54	47
Carr Lane (Link PAR 39)	33	61	74	3	3
B1392 Meredyke Road (Link PAR 40)	32	582	620	44	38
Ox Pasture Lane (Link PAR 41)	No data collected	-	-	-	-
Carr Lane (Link PAR 42)	31	31	38	1	1
B1392 Luddington Road (Link PAR 43)	29	948	1,020	74	64
A161 Crowle Road/Wharf Road - Between South of Eastoft to North of Ealand (Link PAR 44)	28	2,181	2,387	142	134
	40	7,776	8,594	468	444
Outgate West (Link PAR 45)	38	623	708	54	47
Bonnyhale Dale Road (Link PAR 46)	37	99	124	9	8
Main Street (Link PAR 47)	No data collected	-	-	-	-
Bonnyhale Road (Link PAR 48)	36	93	107	15	13
Keadby Power Station Internal Roads (Link PAR 49)	No data collected	-	-	-	-

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
A161 - Between Out Gate in the North to A161/A18 junctions (Link PAR 50)	39	8,953	9,956	571	544
A18 Trunk Road (East) (Link PAR 51)	35	8,218	9,147	672	627
A18 High Levels Bank (West) (Link PAR 52)	101	4,892	5,410	458	435
A161 - Between A18 and M180 (Link PAR 53)	86	6,073	6,740	576	552
	102	5,938	6,635	564	515
A161 - Between M180 and Belton (Link PAR 54)	87	9,990	10,665	751	680
King Edward Street (Link PAR 55)	41	1,280	1,414	92	85
Bracon (Link PAR 56)	41	1,280	1,414	92	85
Belton Road (Link PAR 57)	42	928	1,022	90	84
Hollingsworth Lane (Link PAR 58)	89	669	689	72	61
Melwood Hill South (Link PAR 59)	47	1,261	1,351	102	94
Blow Row (Link PAR 60)	45	2,292	2,381	109	95
A161 High Street - Between King Edward Street and Blow Row (Link PAR 61)	88	8,493	9,057	602	545
	44	7,839	8,413	530	469
Rectory Street (Link PAR 62)	46	2,119	2,295	155	144
Melwood Hill North (Link PAR 63)	47	1,261	1,351	102	94
Newland Lane (Link PAR 64)	No data collected	-	-	-	-
A161 Epworth Road (Link PAR 65)	43	6,152	6,636	496	441
	51	6,087	6,553	484	428
Burnham Road West (Link PAR 66)	No data collected	-	-	-	-

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
Church Walk (Link PAR 67)	No data collected	-	-	-	-
East Lound Road (Link PAR 68)	48	601	630	66	53
Brackenhill Road / E Lound Road (Link PAR 69)	49	945	992	85	71
B1396 Tower Hill (Link PAR 70)	50	2,769	2,988	140	126
A161 Haxey Lane (Link PAR 71)	52	3,755	4,119	383	334
Ferry Road / Main Street (Link PAR 72)	54	833	930	82	76
	55	505	572	53	50
Stockwith Road (Link PAR 73)	No data collected	-	-	-	-
A161 Station Road (Link PAR 74)	53	4,450	4,925	367	327
	56	4,393	4,864	391	349
Tindale Bank Road (Link PAR 75)	No data collected	-	-	-	-
A161 Haxey Road (Link PAR 76)	103	4,357	4,766	297	266
Cornley Road (Link PAR 77)	57	121	125	11	10
Carr Lane (Link PAR 78)	105	203	211	27	24
B1403 Church Street (Link PAR 79)	104	2,149	2,296	138	125
Cattle Road (Link PAR 80)	105	203	211	27	24
	57	121	125	11	10
A161 High Street to A161/A631 Roundabout (Link PAR 81)	58	3,694	3,985	252	224
	106	4,401	4,827	295	266
	107	4,919	5,420	344	316
B1403 Gringley Road (Link PAR 82)	91	2,424	2,584	203	183

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
B1403 Fountain Hill (Link PAR 83)	91	2,424	2,584	203	183
Walkeringham Road (Link PAR 84)	90	202	221	12	13
B1403 Walkeringham Road (Link PAR 85)	91	2,424	2,584	203	183
A631 (Gringley on the Hill West) (Link PAR 86)	108	8,864	9,747	898	860
A631 (Gringley on the Hill East) (Link PAR 87)	59	7,464	8,630	837	818
	60	7,459	8,628	851	828
A631 - Between A161/A631 Roundabout and Wood Lane (Link PAR 88)	No data collected	-	-	-	-
A631 - Between Wood Lane and A620/A631 Roundabout (Link PAR 89)	No data collected	-	-	-	-
Wood Lane (Link PAR 90)	No data collected	-	-	-	-
A620 - Between A620/A631 Roundabout to Saundby/Sturton/Gainsborough Road Roundabout (Link PAR 91)	109	6,508	6,960	430	387
Sturton Road (Link PAR 92)	62	2,427	2,585	307	261
Gainsborough Road (Link PAR 93)	62	2,427	2,585	307	261
Station Road (Link PAR 94)	61	732	772	67	57
Wheatley Road (Link PAR 95)	61	732	772	67	57
Sturton Road (Link PAR 96)	63	954	1,008	68	60
Low Street (Link PAR 97)	63	954	1,008	68	60
A620 - Gainsborough Road (Link PAR 98)	92	4,376	4,720	381	356
	93	4,875	5,316	405	379

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
A620 - Between Low Street in North Wheatley to Spital Hill in Retford (Link PAR 99)	110	6,330	6,969	322	302
	69	6,511	7,079	416	394
A620 Amcott Way (Link PAR 100)	67	17,577	19,341	757	778
Cross Street (Link PAR 101)	No data collected	-	-	-	-
Springs Lane (Link PAR 102)	No data collected	-	-	-	-
Retford Road (Link PAR 103)	64	3,289	3,594	225	203
Leverton Road / Spital Hill (Link PAR 104)	65	3,204	3,538	195	177
	66	3,674	4,152	176	161
A638 Arlington Way/London Road (Link PAR 105)	68	11,834	13,373	611	590
	71	12,862	14,455	640	614
A638 Great North Road - To the A1 (Link PAR 106)	70	9,072	10,009	629	607
Cocking Lane (Link PAR 107)	No data collected	-	-	-	-
Town Street / Forewood Lane (Link PAR 108)	No data collected	-	-	-	-
Wood Lane / Main Street (Link PAR 109)	No data collected	-	-	-	-
Grove Road (Link PAR 110)	72	1,646	1,884	102	92
Lady Well Lane (Link PAR 111)	72	1,646	1,884	102	92
Main Street (Link PAR 112)	74	453	509	39	33
Hazelwood Lane (Link PAR 113)	73	1,383	1,552	64	57
Ashley Lane (Link PAR 114)	120	69	67	6	5
Retford Road (North of Rampton Hospital) (Link PAR 115)	75	1,377	1,448	76	68
Laneham Road (Link PAR 116)	76	2,844	3,016	235	207

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
	77	2,170	2,341	206	181
	78	2,580	2,831	224	198
	126	2,280	2,474	213	183
A57 Broad Gate - To A57 junction with the A1 (Link PAR 117)	80	8,343	9,720	839	856
A57 - Between Darlton Road and BM 127 (Link PAR 118)	79	8,280	9,638	873	890
A57 - Between BM 127 and BM 126 (Option 3) (Link PAR 119)	116	8,408	9,789	700	697
A57 - Between BM 126 and A57/Main Street Junction (Link PAR 120)	116	8,408	9,789	700	697
A57 - Between A57/Main Street Junction East (Link PAR 121)	81	8,268	9,624	833	841
Main Street (Link PAR 122)	82	1,159	1,285	152	142
Retford Road (East Drayton) (Link PAR 123)	No data collected	-	-	-	-
Top Street / Darlton Road (Link PAR 124)	No data collected	-	-	-	-
Dale Road (Link PAR 125)	No data collected	-	-	-	-
Willow Flats (Link PAR 126)	17	4,406	4,771	195	174
Ellerker Lane (Link PAR 127)	17	4,406	4,771	195	174
Norfolk Bank Lane (Link PAR 128)	18	457	518	33	32
	18	457	518	33	32
Common Rd (Link PAR 129)	20	335	405	29	26
	21	599	686	57	52
Wallingfen Lane (Link PAR 130)	21	599	686	57	52
Staddlethorpe Lane (Link PAR 131)	No data collected	-	-	-	-

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
Thornton Dam Lane / Scalby Lane (Link PAR 132)	No data collected	-	-	-	-
Meredyke Rd East (Between Carr Ln and B1392 Shore Rd) (Link PAR 133)	32	582	620	44	38
	33	61	74	3	3
B1392 (Link PAR 134)	NA	#N/A	#N/A	#N/A	#N/A
Meredyke Rd West (Link PAR 135)	32	582	620	44	38
B1392 Eastoft Rd (Link PAR 136)	30	927	998	70	61
Outgate East (Link PAR 137)	37	99	124	9	8
Greengate (Link PAR 138)	No data collected	-	-	-	-
Fledborough Road (Link PAR 139)	83	1,109	1,230	158	148
A15 (From Wingfield Farm Roundabout to A180 Interchange) (Link PAR 140)	No data collected	-	-	-	-
A63 (From A15 Interchange to A1079) (Link PAR 141)	No data collected	-	-	-	-
M62 (From A614 Interchange to M18 Interchange) (Link PAR 142)	No data collected	-	-	-	-
M180 (Between M18 Interchange and A161) (Link PAR 143)	No data collected	-	-	-	-
M180 (Between A161 and M181) (Link PAR 144)	No data collected	-	-	-	-
M181 (Link PAR 145)	No data collected	-	-	-	-
M180 (Between M181 Interchange and A15) (Link PAR 146)	No data collected	-	-	-	-

Road Link (ID)	ATC counter Ref	2028 Total Daily Traffic Movements		2028 Daily HGV Traffic Movements	
		12hr (0700- 1900) AAWT	24hr (AADT)	12hr (0700 -1900) AAWT	24hr (AADT)
M180 (Between A15 Interchange and A180) (Link PAR 147)	No data collected	-	-	-	-
Hollingsworth Lane / Queen St (Link PAR 148)	No data collected	-	-	-	-
Epworth Road North (Link PAR 149)	47	1,261	1,351	102	94
Epworth Road South (Link PAR 150)	No data collected	-	-	-	-
Burnham Road East (Link PAR 151)	No data collected	-	-	-	-
Church Street (Link PAR 152)	48	601	630	66	53
Leverton Rd (Link PAR 153)	111	2,721	2,847	179	152
	112	2,746	2,864	156	132
Main St (Link PAR 154)	118	1,981	2,155	111	98
Retford Road East (Link PAR 155)	118	1,981	2,155	111	98
B1230 Main Road West (Link PAR 156)	23	6,986	7,810	551	492
A18 Althorpe Bypass (Link Par 157)	35	8,218	9,147	672	627

National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

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