

21 June 2013

Mr D Vickery  
The Planning Inspectorate,  
3/25 Hawk Wing,  
Temple Quay House,  
2 The Square, Temple Quay,  
Bristol BS1 6PN

Dear Mr Vickery,

### Proposed Main Modifications to the emerging part Joint Core Strategy

Alongside the publication of the further evidence in relation to housing supply and viability the Councils are now in a position to submit the schedule of proposed main modifications to you for consideration. These are submitted in the attached Appendix, using the table suggested, although for technical reasons most of the modifications are attached separately rather than inserted within the table.

The main modifications and reasons for them are summarised below:

MM	Modification	Reason
1	Change to existing para 7.16 and subsequent table	Update and for clarity arising from the hearing in relation to agenda matter 2, para 4
2	New policy to apply PINS model presumption wording and possible future focussed local plan review.	Arising from the hearing in relation to agenda matter 1, para 9 and agenda matter 2, para 6
3	Note added to existing Appendix 6 on Housing Trajectory	Arising from the hearing in relation to agenda matter 2, para 6-9
4	Changes to growth locations table within Appendix 6 to reflect deletion of Broadland part of NPA from Appendix	Arising from the hearing in relation to agenda matter 2, para 6-9
5	Insertion of new Appendix 6a concerning housing delivery trajectory from Broadland NPA proposals	Arising from the hearing in relation to agenda matter 2, para 6-9
6	Change to existing Appendix 7 on Implementation Framework	Arising from the hearing in relation to agenda matter 2, para 13

Jobs, homes, prosperity for local people

	to remove references to infrastructure in part needed to support delivery of Broadland NPA proposals	
7	Insertion of new Appendix 7a Implementation Framework with regard to infrastructure in part needed to support delivery of Broadland NPA proposals	Arising from the hearing in relation to agenda matter 2, para 13
8	Change to existing Appendix 8 with regard to monitoring of objectives 1, 2, 3, 4, 7, 8 and 9	Arising from GNDP response to Inspector's original matter 2, para 1.19 and to reflect MM2

The rationale for the main modifications should be clear from the previous hearing and submitted evidence.

However, there is a need to provide some commentary in relation to MM4 to explain the changes between Appendix 7 and Appendix 7a. The revised appendix (7a) represents the most up to date understanding of infrastructure requirements, funding and delivery related to growth in the Broadland part of the Norwich Policy Area (NPA). This supersedes document reference number DV7 that was submitted during the previous hearing.

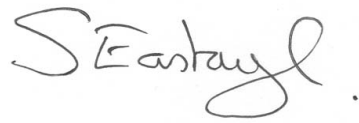
The information is drawn from the current Local Investment Plan and Programme (LIPP) published in February 2012 (INF 3.1). Where it has been possible to gain more up to date information, such as on timing and costs of the Northern Distributor Road (NDR) the latest position is shown. Once the outcome of the current examination is known the councils will refresh the LIPP to ensure it remains current and relevant to the adopted development plan.

Appendix 7 was produced in 2010. The differences between Appendix 7 and Appendix 7a reflect that passage of time. The phasing of transportation projects has been adjusted to reflect the likely delivery of sites. For the NDR and Postwick schemes (T1, T2a and T2b) the appendix shows the latest cost and delivery timetable of those live projects. The changes to Green Infrastructure projects are informed by the Green Infrastructure and Recreational Open Space Topic Paper (CIL evidence library ref EV3). The Water Cycle Study identified options for waste water treatment upgrades. Where an option has been chosen those options no longer under consideration have been deleted (eg. Scheme ref SP6).

To date there has been no further work on Sustainability Appraisal (SA) of the proposed main modifications. However it is considered that SA will only be necessary in relation to MM2. It is our intention to do the SA work necessary in advance of the hearings being resumed so that consultation can follow the hearings promptly if the proposed modifications are considered appropriate.

It should also be noted that these main modifications incorporate and supersede all draft modifications previously proposed by the Councils in evidence or at Examination.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'S Eastaugh' with a period at the end. The signature is written in a cursive style.

Sandra Eastaugh  
Greater Norwich Development Partnership Manager

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## Appendix – Main Modifications

The modifications below are expressed either in the conventional form of ~~strikethrough~~ for deletions and underlining for additions of text, or by specifying the modification in words in *italics*.

The page numbers and paragraph numbering below refer to the Joint Core Strategy for Broadland, Norwich and South Norfolk: Submission Document February 2013, and do not take account of the deletion or addition of text.

Ref	Page	Policy/ Paragraph	Main Modification
MM1	95	Para 7.16 and table below	Make changes attached as MM1
MM2	96	New section Paras 7.19-20 and Policy 21	Insert new section attached as MM2
MM3	108	Appendix 6	Insert following note next to title:  <u>This appendix illustrates the trajectory as anticipated in 2010. For up to date information please see the Annual Monitoring Report. For an updated trajectory for the Broadland part of the NPA see Appendix 6a.</u>
MM4	113	Table headed Growth Locations	Make changes attached at MM4
MM5	-	New section	Insert new Appendix 6a, following Appendix 6, as attached at MM5
MM6	114 - 147	Appendix 7	Make changes attached at MM6
MM7	-	New section	Insert new Appendix 7a, following Appendix 7, as attached at MM7
MM8	148 – 160	Appendix 8	Insert new monitoring indicators for spatial planning objectives 1, 2, 3, 4, 7, 8 and 9. Changes attached at MM8

Please note - where new sections are inserted text is not underlined.

## MM1

7.16 Pending clarification of the NDR's delivery or otherwise, the existing commitment of 1400 dwellings in the Sprowston Fringe can take place without improvements to Postwick Junction. Subject to acceptable improvements to Postwick junction (in the form of Postwick Hub or a suitable alternative) there is significant potential for further development in the growth triangle before confirmation of the delivery of the NDR. The table below summarises the current understanding of this potential.

Location	Level of growth supported by current evidence	Constrained development
Growth Triangle	At least 1600 dwellings (plus 200 exemplar at Rackheath prior to Postwick junction improvements)	New employment allocation at Rackheath
Smaller sites in Broadland NPA	Delivery of the smaller sites allowance will be dealt with on a site by site basis	
Broadland Business Park	Development of existing allocation and new allocation (approx 18ha incl c50,000m <sup>2</sup> B1)	
Airport area		New employment allocation

Insert following text:

Pending clarity on Postwick Hub's and the NDR's delivery, the table below summarises the understanding of development potential offered by the strategic locations in the Broadland NPA as at 2013. The delivery of the smaller sites allowance in the Broadland NPA will be dealt with on a site by site basis as the dependence on Postwick junction and the NDR will vary with location.

Development that can come forward in advance of Postwick Junctions:	
Growth Triangle	1440 committed dwellings in the Sprowston Fringe

Rackheath	200 dwellings on the proposed exemplar development at Rackheath (in addition to 94 existing consented dwellings)
Further development that can come forward following Postwick Junction in advance of confirmation of delivery of the NDR:	
Growth Triangle	At least 1600 dwellings
Broadland Business Park	Development of existing allocation and new allocation (approx. 18ha including c50,000m2 B1)
Development that cannot come forward until confirmation of delivery of the NDR:	
Growth Triangle	All remaining housing in the Growth Triangle and new employment allocation at Rackheath
Airport Area	New employment allocation

### **Implementation within the Broadland part of the Norwich Policy Area**

7.19 Following the adoption of the Joint Core Strategy in March 2011 a court judgment remitted parts of the previously adopted plan for further consideration. This judgment remitted specific elements of the proposals within the Broadland part of the Norwich Policy Area and in particular: a) the Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (including employment growth at Rackheath but excluding employment land at Broadland Business Park and the airport); and b) 2000 homes proposed on smaller sites throughout the Broadland part of the Norwich Policy Area. These proposals were resubmitted for further examination. Policy 21 was considered necessary to be included in the resubmitted proposals for them to be sound in the light of government policy and other material considerations. For the avoidance of doubt policy 21 below applies only to the proposals previously remitted by the Court order.

7.20 Between the original adoption of the JCS and consideration of remitted proposals, key infrastructure items serving the Broadland part of the NPA were not progressed at the rate envisaged in the original JCS. Because of this, and the further scrutiny of the remitted elements of the plan in the light of updated government guidance about the housing land supply and deliverability of the plan proposals, it was considered necessary to strengthen policy with regard to a positive approach to sustainable development and monitoring. Progress regarding delivery of development land will be rigorously monitored against the targets in the monitoring framework. If monitoring reveals that the Broadland part of the NPA is likely to significantly under deliver by 2026 (by more than 1000 homes or 10ha of employment land), and this shortfall is not likely to be addressed by delivery elsewhere within the NPA, then action will be taken to address this.

### **Policy 21: Implementation of proposals in the Broadland part of the Norwich Policy Area**

When considering development proposals in their part of the Norwich Policy Area Broadland District Council will take a positive approach that reflects the presumption in favour of sustainable development contained in the National Planning Policy Framework. It will always work proactively with applicants jointly to find solutions which mean that proposals can be approved wherever possible, and to secure development that improves the economic, social and environmental conditions in the area.

Planning applications that accord with the policies in this Local Plan (and, where relevant, with policies in neighbourhood plans) will be approved without delay, unless material considerations indicate otherwise.

Where there are no policies relevant to the application or relevant policies are out of date at the time of making the decision then the Council will grant permission unless material considerations indicate otherwise – taking into account whether:

- Any adverse impacts of granting permission would significantly and demonstrably outweigh the benefits, when assessed against the policies in the National Planning Policy Framework taken as a whole; or
- Specific policies in that Framework indicate that development should be restricted.

If, notwithstanding this positive approach to managing development, any annual monitoring report produced after three full years from the adoption of this plan demonstrates that there is likely to be a significant shortfall of deliverable sites for housing and/or employment growth in the Broadland part of the NPA a focussed Local Plan identifying alternative allocations for growth in the Norwich Policy Area for delivery before 2026 will be commenced unless:

- a) Work has already commenced on a local plan to replace the Joint Core Strategy; or
- b) Monitoring demonstrates any shortfall in the Broadland part of the Norwich Policy Area is likely to be addressed by delivery elsewhere.

Any focussed Local Plan will identify preferred allocations for growth in accordance with the settlement hierarchy set out in para 6.2 of the JCS.”



MM4

Growth locations (excluding the Broadland part of the Norwich Policy Area)

District	Total number of units per year																				Average annual build rate		
	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26		Total units	
<b>Broadland</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>230</b>	<b>230</b>	<b>580</b>	<b>680</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>804</b>	<b>764</b>	<b>9,600</b>	<b>582</b>	
Rackheath						180	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	3,400	227
Remainder of Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (inside NDR)									425	225	350	350	350	350	350	350	350	350	350	350	350	3,850	324
Additional small sites around Broadland NPA									470	470	470	470	470	470	470	470	470	470	470	470	430	2000	467
Additional sites around rural Broadland									55	55	54	54	54	54	54	54	54	54	54	54	54	650	54
<b>Norwich</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>250</b>	<b>3,000</b>	<b>176</b>
Norwich (3,000)									250	250	250	250	250	250	250	250	250	250	250	250	250	3,000	250
<b>South Norfolk</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>525</b>	<b>655</b>	<b>875</b>	<b>950</b>	<b>1,039</b>	<b>1,128</b>	<b>978</b>	<b>898</b>	<b>778</b>	<b>778</b>	<b>778</b>	<b>778</b>	<b>683</b>	<b>10,065</b>	<b>592</b>
Wymondham (2,200)									185	185	185	185	185	185	185	185	185	185	185	185	165	2,200	183
Long Stratton (1,800)												50	140	230	230	230	230	230	230	230	230	1,800	200
Hethersett (1,000)									50	90	175	175	175	175	100	60						1,000	125
Cringleford (1,200)										50	100	125	125	125	125	125	125	125	125	50	150	1,200	109
Easton/ Costessey (1,000)									50	90	175	175	175	175	100	60						1,000	125
Additional smaller sites around South Norfolk NPA (1,800)									150	150	150	150	150	150	150	150	150	150	150	150	150	1,800	150
Additional sites around Rural South Norfolk									84	84	84	84	83	83	83	83	83	83	83	83	83	1,000	83
Additional urban capacity in rural South Norfolk									6	6	6	6	6	5	5	5	5	5	5	5	5	65	5
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>180</b>	<b>230</b>	<b>230</b>	<b>4,355</b>	<b>4,585</b>	<b>4,929</b>	<b>2,004</b>	<b>2,093</b>	<b>2,182</b>	<b>2,032</b>	<b>1,952</b>	<b>1,832</b>	<b>1,832</b>	<b>1,832</b>	<b>1,832</b>	<b>1,697</b>	<b>22,965</b>	<b>2,874</b>
						<b>0</b>	<b>0</b>	<b>0</b>	<b>830</b>	<b>960</b>	<b>1,179</b>	<b>1,254</b>	<b>1,343</b>	<b>1,432</b>	<b>1,282</b>	<b>1,202</b>	<b>1,082</b>	<b>1,082</b>	<b>1,082</b>	<b>987</b>	<b>13,715</b>	<b>1,143</b>	

## MM5

### Appendix 6a

Trajectory of delivery of Homes expected from previously remitted Growth Locations in Broadland part of NPA

	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	TOTAL	Av build
Rackheath	77	77	70	185	230	230	230	230	230	230	230	230	2249	187
Remainder of Old Catton, Sprowston, Rackheath, Thorpe St Andrew Growth Triangle (inside NDR)	20	163	234	373	435	440	515	590	530	530	530	497	4857	405
Additional small sites around Broadland NPA	98	148	161	266	328	300	225	150	150	150	25	0	2001	167
Total	195	388	465	824	993	970	970	970	910	910	785	727	9107	759

## **Appendix 7: Implementation Framework and Critical Path Outside of the Broadland part of the Norwich Policy Area**

The framework lists infrastructure required to facilitate development promoted in this JCS. It is early work and is not intended to be an exhaustive or precise list of the entire infrastructure that will be needed by 2026. Additional infrastructure will be needed beyond this date, ~~including in the growth triangle where 3,000 dwellings are proposed after 2026.~~ This table was correct at late 2010 and relates only to infrastructure that is not required to deliver any aspect of the plan that was previously remitted. Updated information on the schemes listed is contained within the published LIPP available on the GNDP website. Updated information on infrastructure schemes needed in part to support some element of the previously remitted growth proposals in the Broadland part of the NPA is available in appendix 7a.

The GNDP will manage a delivery programme supporting the implementation of this Joint Core Strategy. The programme will be developed through the Local Investment Plan and Programme (LIPP). As decisions are made locally and nationally on prioritisation and funding of infrastructure, the content, phasing and priorities of this list will be amended accordingly. This will happen via the LIPP process which will be subject to regular review.

The definition of the three levels of priority is derived from the Greater Norwich Infrastructure Needs and Funding Study (INF 1: in particular see Page 194) but expands the Study's definition to explicitly recognise the differential impact on the overall strategy. Consequently, the categories are:

**Priority 1 Infrastructure** is fundamental to the strategy or must happen to enable physical growth. It includes key elements of transport, water and electricity infrastructure and green infrastructure requirements from the Habitats Regulation Assessment. Failure to deliver infrastructure that is fundamental to the strategy would have such an impact that it would require the strategy to be reviewed. This particularly applies to the NDR and the associated package of public transport enhancement. The sustainable transport requirements of the strategy and much of the development to the north of the built up area is dependent on these key elements of NATS.

**Priority 2 Infrastructure** is essential to significant elements of the strategy and required if growth is to be achieved in a timely and sustainable manner. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals, particularly in the medium term as pressures build and any existing capacity is used up.

**Priority 3 Infrastructure** is required to deliver the overall vision for sustainable growth but is unlikely to prevent development in the short to medium term. The overall quality of life in the area is likely to be poorer without this infrastructure. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposal.

**Table 1 – Infrastructure Framework** shows infrastructure requirements to support growth across the JCS period.

**Table 1 – Infrastructure Framework**

**Infrastructure Framework: Priority 1 projects 2008 - 2016**

*The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)*

**Waste Water**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
SP1	<del>Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water</del>	Rackheath	Developer	tba	<del>Developer/ r/ AW provision</del>	2016	<del>Water Cycle Study Stage 2: B</del>
SP3	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	42.9	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP4	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	5	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP5	Wymondham upgrade (Option 2)	Wymondham	Anglian Water	13.8	Developer/ AW provision	2016	Water Cycle Study Stage 2: B
SP6	<del>Rackheath (Option 2)</del>	Rackheath	<del>Anglian Water</del>	48	<del>Developer r/ AW provision</del>	2016	<del>Water Cycle Study Stage 2: B</del>

## Potable Water

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

## Green Infrastructure

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 15	Enhance public access to Yare Valley and Bawburgh Lakes	Overall scale of growth	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	tba	Local authority/ Developer contributions	2016	Green Infrastructure Delivery Plan

## Electricity

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
U1	New primary sub-station on existing site (Hurricane Way)	Expansion of the employment area - airport business park	EDF energy	5.5	70% AMP • 30% Developer contributions	2016	Infrastructure Needs and Funding Study 2009

## Transportation

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T1	Norwich Northern Distributor Road	Overall scale of growth in particular Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation	Norfolk County Council	106.2	DfT £67.5m • Growth Point • Developer Contributions • Norfolk County Council	2016	NATS
T2a	Postwick Junction improvements	Overall Scale of Growth. Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation	Norfolk County Council	19	DfT • Growth Point 3.5 • Developer contributions	2016	NATS

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T2b	Postwick Park and Rice Junction improvements	<del>Overall Scale of Growth. Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle • Broadland: Smaller sites in the NPA (2000 dwellings) • Norwich Area Transportation Strategy including delivery of BRT • Broadland Business Park • Airport employment allocation</del>	Norfolk County Council	6	Developer contributions	2016	NATS
T4 & T17	Thickthorn junction improvement including bus priority and park and ride improvements	Wymondham, Hethersett and Cringleford Growth Locations	Norfolk County Council/ Highways Agency	30	Developer contributions	2016 (scheme expected to be phased)	NATS
T5	Longwater junction improvements	West Growth Location	Norfolk County Council/ Highways Agency	30	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T6	Norwich Research Park transport infrastructure phase 1	Norwich Research Park	Norfolk County Council/ Highways Agency	5	Growth Point • Developer contributions	2016	NATS
T7	Grapes Hill bus improvements	Overall Growth	Norfolk County Council	0.18	Growth Point/ EEDA	Delivered	NATS



Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T7	Bus improvements Newmarket Road	Wymondham, Hethersett and Cringledford • Norwich Area Transportation Strategy including delivery of BRT	Norfolk County Council	0.4	Growth Point	Delivered	NATS
T7	City centre bus improvements phase 1	Overall Growth	Norfolk County Council/ Norwich City Council	1	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 1	Broadland Fringe Growth (subject to location of growth)	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T9	Bus Rapid Transit via Dereham Road - Phase 1	West Growth Location	Norfolk County Council/ Norwich City Council	1.25	Growth Point	2010 – 2011	NATS

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T10	Bus Rapid Transit via Yarmouth Road - Phase 1	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T11	Bus Rapid Transit via Salhouse Road and Gurney Road - Phase 1	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	1.8	1.8 Eco- community PoD • Developer contributions	2016	NATS
T12	Bus Rapid Transit via Norwich airport A140 to City centre - Phase 1	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2011-2016	NATS
T13	Bus priority route via Hetherset Lane/ Hospital/ Norwich Research Park/ University of East Anglia/ City centre	Wymondham, Hetherset and Cringleford Growth Location & NRP	Norfolk County Council/ Norwich City Council	2.7	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T14	Bus priority route via B1172 phase 1	Wymondham, Hethersett Growth Location	Norfolk County Council/ Norwich City Council	1.7	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
<del>T15</del>	<del>Development Link Broadland Business Park to Salhouse Road</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Developer Lead</del>	<del>2.5</del>	<del>Developer contributions</del>	<del>2016</del>	<del>NATS</del>
T16	Bus priority - approach to Harford Junction	Long Stratton Growth Location	Norfolk County Council/ Highways Agency	2	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
T18	Pedestrian / Cycle links to Longwater	West Growth Locations	Norfolk County Council	1.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2016	NATS
N/A	Lady Julian Bridge	NATS • City centre	Norwich City Council	2.58	Growth Point • S106 • EEDA	Delivered	NATS

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
N/A	Barrack Street ring- road improvement works	Overall Growth	Norfolk County Council/ Norwich City Council	1.3	Growth Point	Delivered	NATS
N/A	St Augustine's Gyratory	Norwich Area Transportation Strategy including delivery of BRT • City centre bus enhancements	Norfolk County Council/ Norwich City Council	3.49	Growth point 2.42 • LTP 1.04 • S106 .03	2010	NATS
	<b>Totals</b>			<b><u>155.30</u></b> <b>341.39</b>			

## Infrastructure Framework: Priority 1 projects 2016 -2021

The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)

### Waste Water

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
SP1	Sewerage upgrade – solutions subject to ongoing discussions with Anglian Water	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer	TBA	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP2	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Hethersett, Cringleford, Easton/ Costessey	Developer	TBA	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP7	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	14.4	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP8	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	0.8	Developer/ AW provision	2021	Water Cycle Study Stage 2b
SP9	Wymondham upgrade (Option 2)	West growth locations	Anglian Water	22.4	Developer/ AW provision	2021	Water Cycle Study Stage 2b

**Potable Water**

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

**Electricity**

*The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.*

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
U2	New primary substation on new site (Norwich Airport north)	Expansion of the employment area – airport business park • Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	EDF energy	6.3	Developer contributions	2021	Infrastructure Needs and Funding Study
U3	New grid sub-station on existing sites (Norwich East)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	EDF energy	17	100% AMP	2021	Infrastructure Needs and Funding Study

## Green Infrastructure

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment and Utilities). All potable water improvements are delivered through the AMP process and are not included in this table.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 15	Enhance public access to Yare Valley and Bawburgh Lakes	Overall scale of growth in particular Wymondham, Hethersett and Cringleford Growth Locations	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	tba	Local authorities/ Developer contribution	2021	Green Infrastructure Delivery Plan

## Transportation

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment and Utilities). All potable water improvements are delivered through the AMP process and are not included in this table.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T3	Long Stratton bypass A140 including improvement at Hempnall cross-roads	Long Stratton Growth Locations	Developer / Norfolk County Council	20	Developer contributions	2021	Developer
T6	Norwich Research Park transport infrastructure phase 2	Norwich Research Park	Norfolk County Council/ Highways Agency	8	Growth Point • Developer contributions	2021	NATS
T7	Bus priority - approach to Harford Junction	Overall Growth	Norfolk County Council	2	Developer contributions	2021	NATS
T7	City centre bus improvements phase 1	Overall Growth	Norfolk County Council/ Norwich City Council	2.6	Growth Point • LTP • Developer contributions	2021	NATS
T7	City centre bus improvements phase 2	Overall Growth	Norfolk County Council/ Norwich City Council	6	Growth Point • LTP • Developer contributions	2021	NATS



Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 2	Broadland Fringe Growth	Norfolk County Council/ Norwich City Council	5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021	NATS
T9	Bus improvements Dereham Road phase 2	West Growth Locations	Norfolk County Council/ Norwich City Council	2.6	Growth Point • Developer contributions	2021	NATS
T10	Bus Rapid Transit via Yarmouth Road - Phase 2	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021	NATS
<del>T11</del>	<del>Bus improvements via Salhouse Road and Gurney Road phase 2</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>2.6</del>	<del>Developer contributions • Rackheath PoD</del>	<del>2021</del>	<del>NATS</del>
<del>T12</del>	<del>Bus Rapid Transit via Norwich airport A140 to City centre - Phase 2</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>5</del>	<del>Norfolk County Council • DfT • Growth Point • Developer contributions</del>	<del>2021</del>	<del>NATS</del>

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T15	Development Link Broadland Business Park to Salhouse Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.5	Developer contributions	2021	NATS
<b>Totals</b>				<b><u>88.80</u></b> <b>122.20</b>			

## Infrastructure Framework: Priority 1 projects 2021 -2026

The base date for the Strategy is 2008. This table includes projects from 2008 - 2011 (the adoption of the Strategy) and 2011 - 2016 (the first 5 years of delivery post adoption)

### Waste Water

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
SP1	<del>Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	Developer	tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP2	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Hethersett, Cringleford, Easton/ Costessey	Developer	tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP10	Whitlingham Upgrade (Option 1)	Norwich Policy Area	Anglian Water	4.3	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP11	Whitlingham Upgrade (Option 2)	Norwich	Anglian Water	0.4	Developer/ AW provision	2026	Water Cycle Study Stage 2 B

<b>Ref</b>	<b>Scheme</b>	<b>Required for growth in:</b>	<b>Promoter/ Delivery body</b>	<b>Total Cost £m</b>	<b>Funding sources</b>	<b>Estimated delivery dates by</b>	<b>Source</b>
SP12	Wymondham upgrade (Option 2)	West growth locations	Anglian Water	0.5	Developer/ AW provision	2026	Water Cycle Study Stage 2 B
SP13	Sewerage upgrade - solutions subject to ongoing discussions with Anglian Water	Long Stratton	Anglian Water	Tba	Developer/ AW provision	2026	Water Cycle Study Stage 2 B

## Potable Water

Water supply is adequate for growth in the short-term. Supply will require enhancement in the longer term, Anglian Water are committed to finding a solution by 2012. Solutions will be funded through the AMP process and developer contributions.

## Electricity

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
U4	New primary substation on new site (Sprowston / Rackheath)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrews growth triangle	EDF energy	4.3	Developer contribution	2026	Infrastructure Needs and Funding Study 2009
U5	Replacement of transformers and switchgear in existing site (Hapton)	Long Stratton	EDF energy	2.53	83% AMP • 17% Developer contributions	2026	Infrastructure Needs and Funding Study 2009
U6	Replacement of transformers and switchgear in existing site (Wymondham)	SW Growth location	EDF energy	2.53	67% AMP • 33% Developer contributions	2026	Infrastructure Needs and Funding Study 2009

## Green Infrastructure

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	-	tba	-	2026	Green Infrastructure Delivery Plan

## Transportation

The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as Priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
T7	City centre bus improvements phase 3	Overall Growth	Norfolk County Council/ Norwich City Council	6	Norfolk County Council • DfT • Growth Point • Developer contributions	2021 - 2026	NATS
T8	Bus Rapid Transit via Fakenham Road - A1067 - Phase 3	Broadland Fringe Growth	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021-2026	NATS
T9	Bus improvements Dereham Road phase 3	West Growth Location	Norfolk County Council/ Norwich City Council	2.6	Growth Point • LTP • Developer contributions	2021 - 2026	NATS
T10	Bus Rapid Transit via Yarmouth Road - Phase 3	Broadland Business Park Expansion	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council • DfT • Growth Point • Developer contributions	2021-2026	NATS

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
<del>T11</del>	<del>Bus improvements via Salhouse Road and Gurney Road phase 3</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>0.6</del>	<del>Rackheath PoD ● Developer contributions</del>	<del>2021-2026</del>	<del>NATS</del>
<del>T12</del>	<del>Bus Rapid Transit via Norwich airport A140 to City centre - Phase 3</del>	<del>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</del>	<del>Norfolk County Council/ Norwich City Council</del>	<del>2.5</del>	<del>Norfolk County Council ● DfT ● Growth Point ● Developer contributions</del>	<del>2021-2026</del>	<del>NATS</del>
	Totals			<del>23.86</del> 31.26			



## Infrastructure Framework: Priority 2 projects 2008-2016

### Education

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED3	60 place pre-school	Norwich City	Norfolk County Council	0.54	Developers	2011	Infrastructure Needs and Funding Study
ED4	60 place pre-school	Norwich City	Norfolk County Council	0.54	Developers	2016	Infrastructure Needs and Funding Study

## Healthcare

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC1	GPs Surgery (3 GPs)	Norwich City	Health Authority	1.03	Health Authority / Developer contribution	2011	Infrastructure Needs and Funding Study
HC2	Dentists surgery (4 Dentists)	Norwich City	Health Authority	1.25	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC6	Expansion of existing facilities (2 GPs and 2 Dentists)	Broadland Elsewhere	Health Authority	0.9	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC12	Expansion of existing facilities (7 GPs and 7 Dentists)	South Norfolk Elsewhere	Health Authority	3.5	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study
HC13	Hospital bed requirements	Overall scale of growth	Health Authority	10	Health Authority / Developer contribution	2016	Infrastructure Needs and Funding Study

## Green infrastructure

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
N/A	Wensum River Parkway	Overall scale of growth	HEART/ Norwich City Council	0.07	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Catton Park visitor centre and park improvements	Overall scale of growth	Catton Park Trust/ Norfolk County Council	0.37	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Whitlingham Country Park Access Improvements	Overall scale of growth	Norfolk County Council	0.12	Growth Point	Delivered	Green Infrastructure Steering Group
N/A	Wooded ridge	Overall scale of growth	Norwich City Council	0.04	Growth Point	Delivered	Green Infrastructure Steering Group
GI 1-14	Green infrastructure projects and open space	Overall scale of growth	Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2016	Green Infrastructure Steering Group

Totals				18.36			
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## Infrastructure Framework: Priority 2 projects 2016-2021

### Education

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED1	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	60 place pre-school (co-location with community space)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED5	2FE primary with integrated 60 place nursery	Norwich City	Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED5	2FE primary with integrated 60 place nursery	Norwich City	Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	30 place pre-school	Wymondham	Norfolk County Council	0.285	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	2FE primary with integrated 60 place nursery	Wymondham	Norfolk County Council	5.14	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	60 place pre-school	Hethersett	Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED7	60 place pre-school	Easton	Norfolk County Council	0.54	Developer contribution	2021	Infrastructure Needs and Funding Study
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts phase 1	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	26	Developer contribution	2021	Infrastructure Needs and Funding Study

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED10	Expanded secondary school provision	Wymondham, Hethersett, Cringleford, Costessey / Easton	Norfolk County Council	10	Developer contribution	2021	Infrastructure Needs and Funding Study and ongoing assessment of options

### Healthcare

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC3	Expansion of existing facilities (6 GPs and 5 Dentists)	Norwich City	Health Authority	4.5	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC4	<del>Primary Care Centre (5 GPs and 4 Dentists)</del>	<del>Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle</del>	<del>Health Authority</del>	<del>3.35</del>	<del>Health Authority / Developer contribution</del>	<del>2021</del>	<del>Infrastructure Needs and Funding Study</del>
HC7	Expansion of existing facilities (3 GPs and 2 Dentists)	Wymondham	Health Authority	1.8	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC9	Expansion of existing facilities (1 GP and 1 Dentists)	Hethersett	Health Authority	0.55	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study

Ref	Scheme	Dependencies	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC11	Expansion of existing facilities (1 GP and 1 Dentist)	Easton / Costessey	Health Authority	0.55	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study
HC13	Hospital bed requirements	Overall scale of growth	Health Authority	6	Health Authority / Developer contribution	2021	Infrastructure Needs and Funding Study

### Green infrastructure

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 1-14	Green infrastructure projects and open space	Overall scale of growth	Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2021	Green Infrastructure Steering Group

Totals				40.19 <del>80.90</del>			
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## Infrastructure Framework: Priority 2 projects 2021-2026

### Education

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED2	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED6	60 place pre-school co- located with 600sqm combined community centre and library	Norwich City	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study



Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED8	60 place pre-school	Wymondham	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	2FE place primary	Cringleford	Norfolk County Council	2.3	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	1 FE place primary	Hethersett	Norfolk County Council	2.3	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	60 place pre-school	Long Stratton	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED9	<del>1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts phase 2</del>	<del>Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle</del>	<del>Norfolk County Council</del>	<del>13</del>	<del>Developer contribution</del>	<del>2026</del>	<del>Infrastructure Needs and Funding Study</del>
ED8	2FE primary with integrated 60 place pre-school co-located with combined community centre and library	Long Stratton	Norfolk County Council	5.14	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	60 place pre-school	Cringleford	Norfolk County Council	0.54	Developer contribution	2026	Infrastructure Needs and Funding Study
ED8	1FE primary	Easton	Norfolk County Council	2.5	Developer contribution	2026	Infrastructure Needs and Funding Study

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
ED10	Expanded secondary school provision	Wymondham, Hethersett, Cringleford, Costessey / Easton, Long Stratton, rest of South Norfolk NPA	Norfolk County Council	10	Developer contribution	2026	Infrastructure Needs and Funding Study and ongoing assessment of options

### Healthcare

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure. The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC5	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC8	Combined surgery (2 GPs and 2 Dentists)	Long Stratton	Health Authority	1.5	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC10	Expansion of existing facilities (1 GP and 1 Dentists)	Cringleford	Health Authority	0.55	Health Authority / Developer contribution	2021 - 2026	Infrastructure Needs and Funding Study

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
HC12	Expansion of existing facilities (1 GP )	South Norfolk Elsewhere	Health Authority	0.6	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study
HC13	Hospital bed requirements	Overall scale of growth	Health Authority	12	Health Authority / Developer contribution	2026	Infrastructure Needs and Funding Study

### Green infrastructure

The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The 3 categories of infrastructure that are viewed as Priority 1 are Education, Healthcare and Green Infrastructure. Green infrastructure projects are being assessed following completion of the Green Infrastructure Delivery Plan. Open space will be planned in relation to each growth location and planned in line with development.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
GI 1-14	Green infrastructure projects and open space	Overall scale of growth	Various	tba	Local authorities • Developers contributions • Other funding sources to be identified	2026	Green Infrastructure Steering Group

Totals				<u>39.05</u> <del>66.22</del>			
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## Infrastructure Framework: Priority 3 projects 2008-2016

### Community facilities

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	0.5	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study
CF2	Community facilities	Norwich	Norwich City Council	1	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study
CF3-5	Community facilities	South Norfolk	South Norfolk Council	4	Private companies • Developers • Local authorities	2011-16	Infrastructure Needs and Funding Study

Totals				<u>5</u> 5.50			
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## Infrastructure Framework: Priority 3 projects 2016-2021

### Community facilities

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2	Private companies • Developers • Local authorities	2016 - 2021	Infrastructure Needs and Funding Study
CF2	Community facilities	Norwich	Norwich City Council	3.05	Private companies • Developers • Local authorities	2016 - 2021	Infrastructure Needs and Funding Study
CF3-5	Community facilities	South Norfolk	South Norfolk Council	3.1	Private companies • Developers • Local authorities	2016 - 2021	Infrastructure Needs and Funding Study

## Community services

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CI 12	Fire Service	Overall scale of growth	Norfolk County Council	tba	Norfolk County Council / Developer contribution	2016-2021	Infrastructure Needs and Funding Study
CI13	Ambulance Service	Overall scale of growth	Norfolk Ambulance Service	tba	Norfolk Ambulance Service / Developer contribution	2016-2021	Infrastructure Needs and Funding Study
CI 1- 11	Police Safer Neighbourhood teams - Broadland (18 officers) • Norwich (22 officers) • South Norfolk (32 officers)	Overall scale of growth	Norfolk Constabulary	5.25	Norfolk Constabulary / Developer contribution	2016-2021	Infrastructure Needs and Funding Study

Totals				<u>11.40</u> <del>13.40</del>			
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## Infrastructure Framework: Priority 3 projects 2021-2026

### Community facilities

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CF 1	Community facilities	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study
CF 2	Community facilities	Norwich	Norwich City Council	3.05	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study
CF 3-5	Community facilities	South Norfolk	South Norfolk Council	3.1	Private companies • Developers • Local authorities	2021-2026	Infrastructure Needs and Funding Study

## Community services

The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.

Ref	Scheme	Required for growth in:	Promoter/ Delivery body	Total Cost £m	Funding sources	Estimated delivery dates by	Source
CI 12	Fire Service	Overall scale of growth	Norfolk County Council	TBA	Norfolk County Council / Developer Contribution	2021-2026	Infrastructure Needs and Funding Study
CI 13	Ambulance Service	Overall scale of growth	Norfolk Ambulance Service	TBA	Norfolk Ambulance Service / Developer contribution	2021-2026	Infrastructure Needs and Funding Study
CI 1-11	Police Safer Neighbourhood teams - Broadland (18 officers) • Norwich (44 officers) • South Norfolk (64 officers)	Overall scale of growth	Norfolk Constabulary	5.25	Norfolk Constabulary / Developer Contribution	2021 - 2026	Infrastructure Needs and Funding Study

Totals				13.4			
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MM7

Proposed new appendix:

## **Appendix 7a: Implementation Framework and Critical Path Inside of the Broadland part of the Norwich Policy Area**

The framework lists infrastructure required to facilitate development promoted in this JCS. It is early work and is not intended to be an exhaustive or precise list of the entire infrastructure that will be needed by 2026. Additional infrastructure will be needed beyond this date, including in the growth triangle where at least 3,000 dwellings are proposed after 2026. This table was correct at June 2013 and relates only to infrastructure that is required to deliver any aspect of the plan that was previously remitted. Updated information on the schemes listed is contained within the published LIPP available on the GNDP website.

The GNDP will manage a delivery programme supporting the implementation of this Joint Core Strategy. The programme will be developed through the Local Investment Plan and Programme (LIPP). As decisions are made locally and nationally on prioritisation and funding of infrastructure, the content, phasing and priorities of this list will be amended accordingly. This will happen via the LIPP process which will be subject to regular review.

The definition of the three levels of priority is derived from the Greater Norwich Infrastructure Needs and Funding Study (INF 1; in particular see Page 194) but expands the Study's definition to explicitly recognise the differential impact on the overall strategy. Consequently, the categories are:

**Priority 1 Infrastructure** is fundamental to the strategy or must happen to enable physical growth. It includes key elements of transport, water and electricity infrastructure and green infrastructure requirements from the Habitats Regulation Assessment. Failure to deliver infrastructure that is fundamental to the strategy would have such an impact that it would require the strategy to be reviewed. This particularly applies to the NDR and the associated package of public transport enhancement. The sustainable transport requirements of the strategy and much of the development to the north of the built up area is dependent on these key elements of NATS.

**Priority 2 Infrastructure** is essential to significant elements of the strategy and required if growth is to be achieved in a timely and sustainable manner. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposals, particularly in the medium term as pressures build and any existing capacity is used up.

**Priority 3 Infrastructure** is required to deliver the overall vision for sustainable growth but is unlikely to prevent development in the short to medium term. The overall quality of life in the area is likely to be poorer without this infrastructure. Failure to address these infrastructure requirements is likely to result in the refusal of planning permission for individual growth proposal.

**Table 1 – Infrastructure Framework** shows infrastructure requirements to support growth across the JCS period.

<b>Table 1 – Infrastructure Framework</b>							
<b>Infrastructure Framework: Priority 1 projects 2008 - 2016</b>							
<i>The base date for the Strategy is 2008. This table includes projects expected to be delivered from the base date up to 2016 (the first 5 years of delivery post adoption of the non-remitted parts of the JCS)</i>							
<b>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities</b>							
Ref	Scheme	Required for growth in	Promoter/ delivery body	Total cost £m	Funding sources	Estimated delivery dates by	Source
<b>Waste water</b>							
SP1	Sewerage upgrade – Anglian Water propose a north east trunk sewer to manage growth in the north east as a result of the detailed study ‘Water Cycle Study 2B’	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	61.6 (across whole period)	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2B
<b>Green Infrastructure</b>							
GI16	Retention and re-creation of Mousehold Heath and link to the surrounding countryside	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	0.033	Local authority/ CIL/ On-site design	2016	Green Infrastructure Delivery Plan
GI17	Broads Buffer Zone	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local Authorities/ Developer	0.21	Local authority/CIL /Developer land contributions	2016	Green Infrastructure Delivery Plan
<b>Transportation</b>							
T1	Norwich Northern Distributor Road	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>Old Catton, Sprowston, Rackheath, and Thorpe</li> </ul>	Norfolk County Council	107 (spend up to 2016)	DFT £67.5m /CIL /Norfolk County Council	2016 (continues to 2021)	NATS

		<p>St Andrew Growth triangle</p> <ul style="list-style-type: none"> <li>• Broadland: Smaller sites in the NPA (2000 dwellings) depending on site specifics</li> <li>• Norwich Area Transportation Strategy including delivery of BRT</li> <li>• Airport employment allocation</li> </ul>					
T2a	Postwick Junction improvements	<p>Overall scale of growth in particular:</p> <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> <li>• Norwich Area Transportation Strategy including delivery of NDR and expanded Postwick Park and Ride</li> <li>• Broadland Business Park and expansion</li> </ul>	Norfolk County Council	21.0	DfT funding /Norfolk County Council	2016	NATS
T11	Bus Rapid Transit via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	1.8	Rackheath PoD (Broadland District Council)/ Norfolk County Council/ DfT /CIL	2016	NATS
T15	Completion of local development Link Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Developer Lead	2.5	Developer Funded	2016	NATS

Ref	Scheme	Required for growth in	Promoter/ delivery body	Total cost £m	Funding sources	Estimated delivery dates by	Source
<b>Infrastructure Framework: Priority 1 projects 2016 -2021</b>							
<b>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities</b>							
<b>Waste Water</b>							
SP1	Sewerage upgrade - north east trunk sewer	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	See 2008-16 period	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2: B
<b>Utilities</b>							
U2	New primary substation on new site (Norwich Airport north)	<ul style="list-style-type: none"> <li>Airport employment allocation</li> <li>Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> </ul>	UK Power Networks	6.3	UKPN	2021	Infrastructure Needs and Funding Study 2009
U3	New grid sub-station on existing sites (Norwich East)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	UK Power Networks	17	100% AMP funded	2021	Infrastructure Needs and Funding Study 2009
<b>Green Infrastructure</b>							
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Local authorities/ Developers	0.033	Local authority/ CIL/ On-site design	2021	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular: Old Catton, Sprowston,	Local authorities/ Developers	0.21	Local authority/CIL/ /Developer	2021	Green Infrastructure Delivery Plan

		Rackheath and Thorpe St Andrew Growth Triangle			land contributions		
<b>Transport</b>							
T1	Norwich Northern Distributor Road	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> <li>• Broadland: Smaller sites in the NPA (2000 dwellings) depending on site specifics</li> <li>• Norwich Area Transportation Strategy including delivery of BRT</li> <li>• Airport employment allocation</li> </ul>	Norfolk County Council	13 (spend after 2016)	Norfolk County Council	2016 to 2021	NATS
T2b	Postwick Park and Ride	Overall scale of growth in particular: <ul style="list-style-type: none"> <li>• Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle</li> </ul>	Norfolk County Council	6	Remaining Growth Point funding / CIL	2021 (earliest possible delivery 2015)	NATS
T11	Bus improvements via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.6	Rackheath PoD / Norfolk County Council / CIL	2021	NATS
T12	Bus Rapid Transit via Norwich airport A140 to City centre	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	2.5	Norfolk County Council/ DfT /CIL	2021	NATS
T15	Completion of local	Old Catton, Sprowston,	Developer	2.5	Developer	2021	NATS

	Development Link Road	Rackheath, and Thorpe St Andrew Growth triangle	Lead		Funded		
<b>Infrastructure Framework: Priority 1 projects 2021 -2026</b>							
<b>The table below lists the Priority 1 infrastructure requirements to deliver the Joint Core Strategy. The categories of infrastructure that are viewed as priority 1 are Transport, Green Infrastructure (relating to the Habitats Regulations Assessment) and Utilities</b>							
SP1	Sewerage upgrade - north east trunk sewer	Overall scale of growth in particular: Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	AW/ Developer	See 2008- 16 period	AW provision/ Developer	in phases up to 2026	Water Cycle Study Stage 2 B
<b>Electricity</b>							
U4	New primary substation on new site (Sprowston / Rackheath)	Old Catton, Sprowston, Rackheath, and Thorpe St Andrews growth triangle	UK Power Networks	4.3	UKPN / CIL	2026	Infrastructure Needs and Funding Study 2009
<b>Green Infrastructure</b>							
GI 16	Retention and re-creation of Mousehold Heath to the surrounding countryside	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		0.033	Local authority/ CIL/ On-site design	2026	Green Infrastructure Delivery Plan
GI 17	Broads Buffer Zone	Overall scale of growth in particular Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle		0.21	Local authority/CIL /Developer land contributions	2026	Green Infrastructure Delivery Plan
<b>Transportation</b>							
T11	Bus improvements via Salhouse Road and Gurney Road	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City	0.6	Rackheath PoD / Norfolk County Council/ DfT	2026	NATS

			Council		/CIL		
T12	Bus Rapid Transit via Norwich airport A140 to City centre	Old Catton, Sprowston, Rackheath, and Thorpe St Andrew Growth triangle	Norfolk County Council/ Norwich City Council	7.5	Norfolk County Council/ DfT /CIL	2026	NATS
Total				256.9			

<b>Infrastructure Framework: Priority 2 projects 2008-2016</b>							
<i>The table below lists the Priority 2 infrastructure requirements to deliver the Joint Core Strategy. The three categories of infrastructure that are viewed as Priority 2 are Education, Healthcare and Green Infrastructure The Health Authority will take a flexible approach to the provision of hospital beds. Locations will be determined by the Health Authority at a later date. It is presumed funding will come through the AMP.</i>							
NOTE: All schools in the period 2008-16 are expected to be covered by S106 or are covered by Children's Services funding							
<b>Infrastructure Framework: Priority 2 projects 2016-2021</b>							
<b>Education</b>							
ED1	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2021	Infrastructure Needs and Funding Study 2009
ED1	60 place pre-school (co-location with community space)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED1	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts Phase 1	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	13	Childrens Services/CIL	2021	Infr Needs and Funding Study 2009
HC4	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority	2021	Infr Needs and Funding Study 2009



Infrastructure Framework: Priority 2 projects 2021-2026							
Education							
ED2	60 place pre-school	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	0.54	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED2	2FE primary with integrated 60 place nursery	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	5.14	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
ED9	1400 secondary school with 280 sixth form places co-located with 4 x indoor sports courts phase 2	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Norfolk County Council	13	Childrens Services/CIL	2026	Infrastructure Needs and Funding Study 2009
HC5	Primary Care Centre (5 GPs and 4 Dentists)	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Health Authority	3.35	Health Authority	2026	Infrastructure Needs and Funding Study 2009

<b>Infrastructure Framework: Priority 3 projects</b>							
The table below lists the Priority 3 infrastructure requirements to deliver the Joint Core Strategy. The 2 categories of infrastructure that are viewed as Priority 3 are Community facilities and Community services.							
<b>Community facilities: 2013-2016</b>							
CF1	Community facilities 300 sq metres community space	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	0.54	Private companies / Developers / Local authorities/ CIL	2016	Infrastructure Needs and Funding Study 2009
<b>Community facilities: 2016-2021</b>							
CF1	Community facilities 600 sq metres community space	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	1.44	Private companies / Developers / Local authorities/ CIL	2021	Infrastructure Needs and Funding Study 2009
<b>Community facilities: 2021-2026</b>							
CF 1	Community facilities 300sq metres of community space plus 4 indoor sports courts	Old Catton, Sprowston, Rackheath and Thorpe St Andrew Growth Triangle	Broadland District Council	2.54	Private companies / Developers / Local authorities/ CIL	2026	Infrastructure Needs and Funding Study 2009

## Appendix 8 – Monitoring framework

Spatial Planning Objective 1: To minimise the contributors to climate change and address its impact.			
Policy: 1, 3, 5, 6, 7, 9, 10, 11, 12, 13, 14, 18, 19			
Indicator (& type)	Main Agencies	Targets	Source
Total CO <sub>2</sub> emissions per capita (LAA indicator NI 186, SA Indicator ENV6 & local indicator 4.1)	Householders, business and transport	LAA target for GNDP area	DEFRA
Renewable energy capacity installed by type (CLG Core Output Indicator E3)	LA Environmental Services	Year on year percentage increase	LPA AMRs
Decentralised and renewable or low carbon energy sources installed in developments (Local)	LA Environmental Services	Year on year percentage increase	LPA AMRs
Number of planning permissions granted contrary to the advice of the Environment Agency on either flood defence grounds or water quality (CLG Core Output Indicator E1)	Environment Agency/LPAs	Zero	LPA AMRs
All new housing schemes to reach Code for Sustainable Homes level 4 for water on adoption and housing schemes of a minimum of 500 dwellings to reach level 6 for water by 2015	Developers / LPAs	All new housing schemes to reach Code for Sustainable Homes level 4 for water on adoption and housing schemes of a minimum of 500 dwellings to reach level 6 for water by 2015	LPAs / Building Control
Percentage of household waste that is reused recycled and composted (indicator NI 192 & SA Indicator ENV9)	LAs	Year on year increase in total	LAs information published by DEFRA
<u>Percentage of residents who travel to work:</u> <u>a) by private motor vehicle;</u> <u>b) by public transport;</u> <u>c) by foot or cycle; and</u> <u>d) work at or mainly at home.</u>	<u>Norfolk County Council</u> <u>/</u> <u>Developers / LPAs</u>	<u>Decrease in a) and increase in b), c) and d) over plan period</u>	<u>ONS</u> <u>(Census)</u>

Spatial Planning Objective 2: To allocate enough land for housing, and affordable housing, in the most sustainable settlements.			
Policy: 4, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, <u>21</u>			
Indicator (& type)	Main Agencies	Targets	Source
Housing supply (CLG Core Output indicators H.2 a-d)	LPAs & Developers	Meet or exceed annual trajectory requirements	LPAs
Affordable housing completions (CLG Core Output Indicator H5)	LPAs, Housing Authorities, RSLs, Developers & Homes and Communities Agency	33% of all developments on new allocations, or above qualifying threshold where permission is first granted after adoption of this strategy	LPAs
House completions by bedroom number, based on the proportions set out in the most recent Sub-regional Housing Market Assessment	LPAs, Housing Authorities, RSLs & Developers	Figures within 10% tolerance of the Housing Market Assessment requirements	LPAs
Housing to meet the needs of older people, defined as a key group in the housing market assessment. Assessed by satisfaction of people over 65 With both home and neighbourhood (indicator N I 138)	Local authorities, RSLs, private developers	Increasing satisfaction recorded at successive biennial surveys	Audit Commission
Provision of Gypsy and Traveller pitches to meet the RSS review requirements	LPAs, RSLs	58 pitches between 2006 -2011 and future provision equivalent to a 3% annual growth by 2021	LPAs
NI 175 Access to services and facilities by public transport, walking and cycling similar to LTP1 indicator	Norfolk County Council	Increase at each survey	Norfolk County Council

## MM8

<p>Percentage of completions scoring good or very good in Building for Life criteria (CLG core output indicator H6)</p>	<p>LPAs, Developers, CABE</p>	<p>All approved after adoption to meet Code for Sustainable Homes level 4. All approved after 2015 to meet Code for Sustainable Homes level 6</p>	<p>LPAs</p>
<p><u>Delivery of sites for housing within Broadland part of the NPA</u></p>	<p><u>LPAs/Developers</u></p>	<p><u>No significant (sites for 1000 homes or more) shortfall in delivery of sufficient sites to enable delivery of trajectory set out in App 6a by 2026</u></p>	<p><u>LPAs</u></p>

Spatial Planning Objective 3: To promote economic growth and diversity and provide a wide range of jobs To allocate enough land for housing, and affordable housing, in the most sustainable settlements.			
Policy: 5, 6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21			
Indicator (& type)	Main Agencies	Targets	Source
Amount of land developed for employment by type (CLG Core Output Indicator BD1)	LPAs, Developers	118ha B1 & 111ha B2 / B8 2007 to 2026 (split into five year tranches)	LPAs
Annual count of jobs by ABI across the Plan area	Public & private sector employers, Shaping Norfolk's Future, EEDA	Measure against the annualised RSS figure (1,750/year)	NOMIS
New business registration rate (Indicator N. I. 171 –local indicator 1.4)	Public & private sector employers, Shaping Norfolk's Future, EEDA	Meet LAA target	ONS
The percentage of small businesses in the area showing employment growth (Indicator N I 172)	Public and private sector employers, Shaping Norfolk's Future, EEDA	Meet Greater Norwich Economic Strategy target	ONS
Percentage of workforce employed in higher occupations ( Managers and Senior Officials, Professional Occupations and Associate Professional and Technical Occupations)	Public and private sector employers, Shaping Norfolk's Future, EEDA LPAs, City Centre Management Partnership	Meet Greater Norwich Economic Strategy target	ONS
National retail ranking for Norwich (Local Indicator)	Shaping Norfolk's Future, City Centre Management Partnership	Maintain national top 10 ranking	Average of current published indices [Experian Goad, CACI etc]
New retail development to be completed in line with JCS City Centre Policy	LPAs & Developers	20,000 sq m comparison goods floorspace in the City Centre 2007 to 2016 (split into five year tranches)	LPAs

# MM8

Indicator (& type)	Main Agencies	Targets	Source
<p>Percentage of completed town centre uses in identified centres and strategic growth locations (Based on CLG Core Output Indicator BD4)</p>	<p>LPAs &amp; Developers</p>	<p>20,000 sq m comparison goods floorspace in the City Centre 2007 to 2016 (split into five year tranches)</p> <p>Office space to be completed 2007 to 2026:</p> <ul style="list-style-type: none"> <li>• 100,000 square metres in Norwich city centre</li> <li>• 100,000 square metres Norwich Research Park</li> <li>• 50,000 square metres Broadland Business Park</li> <li>• 50,000 square metres elsewhere</li> </ul> <p>[derived from Arup report section 25.3]</p>	<p>LPAs</p>
<p><u>Delivery of sites for employment within Broadland part of the NPA</u></p>	<p><u>LPAs/Developers</u></p>	<p><u>No significant (10ha of land or more) shortfall in delivery of sufficient sites to enable delivery of 25ha of employment land at Rackheath by 2026</u></p>	<p><u>LPAs</u></p>

Spatial Planning Objective 4: To promote regeneration and reduce deprivation			
Policy: 5, 6, 7, 9, 10, 11, 12, 19, 20			
Indicator (& type)	Main Agencies	Targets	Source
Percentage of Super Output Areas in national most deprived 20%	LPAs	Reduction by 50% in plan period ( 28 out of 242 in 2007)	Index of Multiple deprivation
Percentage of previously developed land vacant for more than 5 years (NI 170)	Developers/LAs	Year on year reduction	CLG using information from HCA
<u>Unfit housing – percentage of overall housing stock not meeting “Decent Homes Standard”</u>	<u>LAs</u>	<u>Decrease over plan period</u>	<u>LAs</u>



## MM8

Spatial Planning Objective 5: To allow people to develop to their full potential by providing educational facilities to meet the needs of existing and future populations, while reducing the need to travel.

Policy: 7, 10, 11, 12, 20

Indicator (& type)	Main Agencies	Targets	Source
School leaver qualifications- % of school leavers with 5 or more GCSEs at A*-C grades including Maths and English (indicator N. I. a 75, local indicator 2.7 SA Indicator SOC3)	NCC Children's Services	Year on year increase (on 2007 value of 53% in Greater Norwich)	Norfolk Insight
16 to 18 year olds who are not in education, training or employment (NEET), (indicator NI 117 – local indicator 2.3)	Learning & Skills Council, Norfolk Connexions	Year on year reduction compared with 2006 value of 6%	Norfolk Insight
Proportion of the population aged 19 – 64 (male) and 19 – 59 (female) qualified to NVQ level 2 or higher (indicator NI 163 local indicator 1.2) (Norfolk wide)	Learning and Skills Council	As defined in local indicator	LAA
Proportion of the population aged 19 – 64 (male) and 19 – 59 (female) qualified to NVQ level 4 or higher (indicator NI 165) (Norfolk wide)	Learning & Skills Council	Annual increase	Department for Innovation University and Skills
Achievement of at least 78 points across in the Early Years Foundation Stage, with at least 6 in each of the scales in Personal Social and Emotional Development and Communication, Language and Literacy (indicator N.I. 72, local indicator 2.4) (Norfolk Wide)	NCC Children's Services	As defined in local indicator	DCSF based on County Council Returns

## MM8

Spatial Planning Objective 6: To make sure people have ready access to services.			
Policy: 3, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20			
Indicator (& type)	Main Agencies	Targets	Source
New Retail development to be completed in line with JCS City Centre Policy	LPAs & Developers	20,000 sq m comparison goods floorspace in the City Centre 2007 to 2016 (split into five year tranches)	LPAs
National retail ranking for Norwich (Local Indicator)	LPAs, City Centre Management Partnership	Maintain national top 10 ranking	Average of current published indices [Experian Goad, CACI etc] LPAs
Percentage of units vacant in defined primary shopping areas.	City Centre Management Partnership and local planning authorities	Not more than 5% vacant	Average of current published indices [Experian Goad, CACI etc] LPAs

Spatial Planning Objective 7: To enhance transport provision to meet the needs of existing and future populations while reducing travel need and impact

Policy: 3, 6, 7, 9, 10, 12, 13, 14, 15, 16, 17, 19, 20

Indicator (& type)	Main Agencies	Targets	Source
Access to local services and facilities by public transport, walking and cycling (Indicator NI 175 and local transport plan indicator LTP 1)	Norfolk County Council	Year on year increase	Norfolk County Council
East of England sustainability checklist 'Transport' questions: (www.eastofenglandchecklist.co.uk/checklist/category/4)	Developers	All developments of including more than 100 homes to demonstrate 'good' standards.	Developers / LPAs
Percentage of residents who travel to work by foot or cycle in Norwich Policy Area (Part of SA Indicator SOC8)	Norfolk County Council	Year on year increase (new baseline to be established)	Norfolk County Council
<u>Percentage of residents who travel to work:</u> <u>a) by private motor vehicle;</u> <u>b) by public transport;</u> <u>c) by foot or cycle; and</u> <u>d) work at or mainly at home.</u>	<u>Norfolk County Council</u> <u>/</u> <u>Developers / LPAs</u>	<u>Decrease in a) and</u> <u>increase in b), c) and d)</u> <u>over plan period</u>	<u>ONS</u> <u>(Census)</u>

## MM8

Spatial Planning Objective 8: To positively protect and enhance the individual character and culture of the area.

Policy: 2, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20

Indicator (& type)	Main Agencies	Targets	Source
Percentage of previously developed land vacant for more than 5 years ( NI 170)	Developers/LAs	Year on year reduction	CLG
Percentage of Conservation areas with Appraisals	LPAs	Year on year reduction	LPAs
New residential developments of 10 or more units achieving silver standard against Building for Life criteria	LPAs	100%	LPAs
<u>Heritage at risk – number and percentage of:</u> a) <u>Listed Buildings;</u> and b) <u>Scheduled Ancient Monuments</u> on Buildings at Risk Register	<u>LPAs</u>	<u>Year on year reduction</u>	<u>LPAs</u>

## MM8

Spatial Planning Objective 9: To protect, manage and enhance the natural, built and historic environment, including key landscapes, natural resources and areas of natural habitat or nature conservation value.

Policy: 1, 3, 5, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20

Indicator (& type)	Main Agencies	Targets	Source
Change in areas of local biodiversity importance (CLG Core Output Indicator E2, indicator NI 197)	Norfolk Biodiversity Partnership	Year on year improvements	LPAs AMRs
Percentage of river lengths assessed as a) good biological quality b) good chemical quality (SA Indicator ENV2)	Environment Agency	Above the national standard of 95% 'good'	Environment Agency
Number of designated Air Quality Management Areas (AQMAs) (SA Indicator ENV3)	LA Environmental Services	No AQMAs	Las / DEFRA
Percentage of SSSIs in: a) favourable condition b) unfavourable recovering c) unfavourable no change d) unfavourable declining e) destroyed/ part destroyed (CLG Core Output Indicator E.2, SA Indicator ENV4)	Natural England	95% of SSSIs in 'favourable' or 'unfavourable recovering' condition	Natural England
Number of listed Buildings lost / demolished	LPAs	zero	LPAs
Number of Tree Preservation Orders (TPOs) where trees are lost though development (based on SA Indicator ENV5)	LPAs	zero	LPAs
Percentage of new and converted dwellings on Previously Developed Land (CLG Core Output Indicator H.3)	LPAs & Developers	25%	LPA AMRs
<u>Heritage at risk – number and percentage of:</u> <u>a) Listed Buildings; and</u> <u>b) Scheduled Ancient Monuments on Buildings at Risk Register</u>	<u>LPAs</u>	<u>Year on year reduction</u>	<u>LPAs</u>

Spatial Planning Objective 10: To be a place where people feel safe in their communities			
Policy: 2, 7, 10, 20			
Indicator (& type)	Main Agencies	Targets	Source
Dealing with local concerns about anti-social behaviour and crime by the local council and police (NI 21, local indicator 6.3)	Local community safety partnerships	Year on year increase in satisfaction	Audit Commission
Reduction in overall crime (Local Indicator 6.11)	Local community safety partnerships	Year on year decrease target set by LAA	Local Area Agreement
Road Safety: Number of people killed or seriously injured in road traffic accidents (NI 47, local indicator 6.6)	Norfolk County Council	GNDP-wide targets: 2008 – 187 2009 – 178 2010 – 160 (expressed as a three year rolling average)	Department for Transport
Improving community pride: Civic participation in the local area (NI 3)	LAA (information to be collected every 2 years, by survey)	Increased percentage at each survey	Audit Commission

MM8

Spatial Planning Objective 11: To encourage the development of healthy and active lifestyles			
Policy: 2, 6, 10, 20			
Indicator (& type)	Main Agencies	Targets	Source
Percentage of the population receiving Incapacity Benefit (SA Indicator SOC2)	Primary Care Trust	No increase on 2007 level of 6.6% in spite of predicted ageing population	Norfolk Insight
Healthy life expectancy at age 65 (NI 137)	Local authorities for the LAA	Increase at each survey	Audit Commission
Access to services and facilities by public transport, walking and cycling similar to LTP1 indicator (NI 175)	Norfolk County Council	Increase at each survey	Norfolk County Council
Accessibility of leisure and recreation facilities based on Sport England Active Places Power website (Local indicator)	Norfolk County Council  Sport England, Local Authorities & Service Providers	Trajectory to reduce by half the percentage of wards with less than the East of England Average Personal share of access to Sports Halls (2009 base = 67%) swimming pools (65%) and indoor bowls (12%)	Active Places Power website

## MM8

Spatial Planning Objective 12: To involve as many people as possible in new planning policy			
Policy: 10, 20			
Indicator (& type)	Main Agencies	Targets	Source
Statement of Community Involvement / Engagement	LPAs & Developers	Statement of compliance accepted	LPAs' Annual Monitoring reports
Recognised participatory design process for major growth locations	LPAs & Developers	Used for all major growth locations – over 500 dwellings	LPAs