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Appendix 1: Infrastructure Delivery Plan

1. Introduction

This Infrastructure Delivery Plan (IDP) sets o ut the main infrastruct ure items ne cessary to facilitate the level and distribution of growth set out in the Core Strategy. It also iden tifies other items of infrastructure necessary to achieve the plan's wider objectives and those of its partners. It is a working document that will be kept up to date as infrastructure planning progresses.

A Schedule of Infrastru cture Projects is provided at the en d of the ID P. This comprises three Tables:

Table 1 – Main Schedule;

Table 2 – Infrastructure Trajectory for Ga ydon/Lighthorne Heath Ne w Settleme nt and JLR Employment; and

Table 3 – Infrastructure Trajectory for Canal Quarter and Related Employment Sites.

The main schedule d escribes in dividual projects, whe re these are known, and broad descriptions of the type of infrastructure that might be needed where individual projects have not been identified. Where the infrastructure is essential to support the growth outlined in the Core Strategy, it is shown as 'critical' on the Schedule.

Physical infrastructure that will be delivered on site as a normal part of a development, and that will be paid for by the developer as a normal part of development costs, is not generally included in this IDP. The infrastructure ite ms shown will generall y be financed through developer contributions (S106 and the Community Infra structure Le vy), as well as through the capita I programmes of the District Council, County Council, their key partners and other agencies.

Similarly, small local projects that will be determined by Town and Parish Council's through the Neighbourhood Development Plan process are not identified in the IDP. They may, however, be indirectly funded by the Community Infrastructure Levy (CIL), via the proportion of the levy that is passed to Town and Parish Councils.

As background evidence for CIL, a further document will be produced setting out details of which items of infrastructure will be funded through S106 and which will be funded in whole or part through the levy (the 'Regulation 123' list).

2. Transport Infrastructure

Work to identify the transport infrastructure required as part of the Core Strategy has been led by Warwickshire County Council as the Local Highways Authority. It draws upon:

- the Stratford on Avon District Strategic Transport Assessment completed by Warwickshire County Council (WCC) with assistance from Arup in October 2012;
- the Strategic Transport Assessment Phase 2 Modelling Report, WCC/Arup (June 2013);
- the Stratford (Canal Quarter) Regeneration Zone Sc enario Analysis, WCC/Arup (November 2013);
- the Strategic Transport Assessment Options Analysis Report, WCC/Arup (April 2014);
- the Strategic Transport Assessment Cumulative Assessment, WCC/Arup (April 2014);
- the Local Transport Plan for Warwickshire (2011-2026) and other sources.

Infrastructure improve ments identified include highways infrastructure, public tran sport and pedestrian and cycle r outes. Some schemes are critical to enable the development of specific sites – the se are generally to be provided by the developer either as part of the development using S278/S38, or as an associate diplanning obligation secured through S106 (for example as part of the proposed new settlement at Gaydon/Lighthorne Heath or the Stratford Canal Quarter Regeneration Zone). Other projects, such as the various measures referred to as the Stratford Transport Package, will be wholly or partly CIL funded a sithey will deal with the cumulative impacts of development across a number of sites. EBD

The transport infrastructure required to 2031 a lso includes some strategic schemes of regional or sub-regional significance such as the improvements to the A46(T), M40 and M42, led by the Highways Agency with support from Warwi ckshire County Council and neighbouring highway authorities. Some contribution may be sought from develop ers but these projects will be mostly delivered with external agency funding.

Other public transport projects will be determined as pla ns evolve d uring the Core Strategy period, esp ecially the detail of a possible ne w Park & Ride and e xpress bus services in conjunction with a new settlement at Gaydon/Lighthorne Heath.

The IDP also includes enhanced pedestrian and cycle routes in Stratford at Birmingham Road/Guild Street and a number of minor cycle infrastructure improvements to he lp deliver the Cycle Strategy within the Local Transport Plan. As with highways infrastructure, the creation of new or enhanced pedestrian and cycle links will generally be funded as part of the development package where they relate to specific sites, or with a contribution from CIL if they deal with the cumulative impact of a number of developments.

Community transport initiatives and other local projects may be identified in Neighbourhood and Parish Plans and may secure a share of CIL funding indir ectly from Town and Parish Councils. These small local projects are not identified in the IDP.

Local pede strian and cycle links, including off-road sche mes that improve access to or the amenity value of open space, will generally either be nego tiated as part of a S106 package in lieu of on-site open space contributions (if the need can be linked to a particular development), or they will be identified through the Neighbourhood Development Plan process.

3. Education

The relatively dispersed pattern of growth outlined in the Core Strate gy may help ensure the continuing financial viability of man y small villa ge schools that currently have declining pupil numbers. Any proposals for new housing in the Main Rural Centres will present some challenges in terms of providing school places but in most cases these can be overcome with investment in existing schools.

It is more difficult to accommodate an increase in pupils within Stratford-upon-Avon where there is currently no forecast surplus capacity. In ad dition to the proposed development at Shottery, which will provide a new primary school and a contribution towards the cost of secondary provision, a significant amount of development is proposed in the Core Strategy at the Canal Quarter Regeneration Zone. This will require the provision of additional primary and secondary school places which will be delivered where possible through the expansion of existing schools. The two councils will keep under review the need to plan for the development of wholly new schools.

At primary age, WCC needs to consider how best to meet additional pressure in Stratford, Wellesbourne, Welford on Avon, Fenny Compton, Lighthorne Heath, Tanworth in Arden, Studley, Alcester, Napton, Southam, Ilmington, Shipston, Quinton, Henley in Arden, Harbury, Great Alne, Bidford on Avon, Ettington and Long Compton. This will not see expansions of all of the named schools but will require discussions with all local providers to ensure a sustainable solution. An indicative list of those schools more likely to be expanded is provided in the Schedule of Infrastructure Projects. Similarly, there will be a need for additional secondary school places across the District and discussions will be held with all schools to determine the most appropriate way of meeting the forecast additional demand. An indicative only list is provided in the Schedule.

A new settlement at Gaydon/Lighthorne Heath will include new primary provision and a financial contribution towards secondary provision.

An initial estimate of the overall costs of making the necessary provision is £60.5m. This represents £18.5 for primary, £7.5m for special educational needs (SEN), and £34.5m for secondary and post 16. This includes the requirements of the new settlement.

These costs do not include the provision of land for new schools or any element for pre school provision which should be provided with any new primary provision.

4. Primary and Acute & Community Health Care Infrastructure

4.1 Primary Care

The District is served by 19 GP practices, 5 of which have branch surgeries, making a total of 24 premises. This section outlines the anticipated impact of the growth outlined in the Core Strategy in terms of the built physical capacity needed to ensure the delivery of primary healt h care, a s assessed by the Arden, Herefordshire & Worcestershire Area Team of NHS England.

Stratford-upon-Avon

The future development of the Canal Quarter a nd other cur rently unidentified sites in the town will result in an estimated 900 houses which will generate a population increase of 1,980 residents u sing the Census 2011 average household size of 2.2 residents per dwelling. However, these proposals are part of the overall development of Stratford-upon-Avon which will in total comprise 2,590 additional homes with an increased population of around 5,700. There are four practices situated in the town whose total average list size per whole time equivalent (wte) GP is greater than the national average of 1,750. Therefore, these practices currently have no capacity to increase their list sizes. Three of the practices have some under-utilisation in their premises and a fourth has stated that they could under take internal modifications to their premises to create additional clinical rooms. The requirement is therefore for two additional clinical rooms and associated infr astructure to accommo date additional clinical sessions and associated non-clinical staff. The cost of this is estimated at £60,690, excluding externals, furniture & equipment, telephones/data, fees and VAT.

Wellesbourne

Hastings House Surgery in Wellesb ourne has capacity for an additiona I 130 patients based on the average national list size of 1, 750 patients per wte GP. This capacity will be utilised by residents moving into houses that already have planning permission so a capital contribution will be required from any further development.

Other Main Rural Centres

The practices in the other Main Rural Centres have sufficient capacity to accommodate the planned increases in population. This is either because new purpose built premises have recently been developed, current premises are under-utilised and/or individual practices' list sizes are currently sufficiently below the national average of 1,750 patients per wte GP.

Local Service Villages and Other Rural Locations

Further analysis is required to establish any in frastructure requirements arising from these developments. In total 1,574 additional houses are planned which will result in a nincreased population of 3,463 residents. The maximum requirement would therefore be for two clinical rooms at a cost of £60, 690, excluding externals, furniture & equipment, telephones/data, fees and VAT.

Gaydon/Lighthorne Heath

This site is for 2,500 h ouses by 2 031, ultimately rising to 3,000 houses. This will generate a population i ncrease of 5,500 residents by 203—1 using the ratio of 2.2—residents per dwelling , eventually rising to 6,600. There are three practices situated near this development whose total average list size per wt e GP is greater than the national a verage of 1,750. Therefore, these practices currently have no capacity to increase their list sizes. One of the practices has stated that they could provide eadditional GP sessions by utilising available rooms in their existing premises and this will be sufficient to increase capacity to provide services to the additional population generated by other planned development in the area.

The requirement for this strategic site is therefore ultimately for new premises to accommodate the equivalent of a 4 GP surgery to provide services to its residents. The precise timing of the likely phased provision of this facility is to be determined.

4.2 Acute and Community Health Services

South Warwickshire N HS Foundation Trust (t he "Trust") is the majo r provider of acute and community health services to the population of South Warwickshire.

The Trust provides a range of planned and emergency services to patients from its sites across the District as well as from patients' homes. *Acute care* is delivered from a hospital setting and encompasses a range of clinical health-care functions, including emergency medicine, trauma care, pre-hospital emergency care, a cute care surgery, critical care, urgent care and short-term inpatient st abilization. Community health-care services a re responsible for delivering health services in the community - in people's homes, health cen tres and community-based clinics - and include district nurses, health visitors and therapists delivering out-of-hospital rehabilitation.

The Trust's acute services sites include:

Warwick Hospital – this site houses the majority of the Trust's Acute Services including; Accident and Emergency services, Diagnostic and Pathology departments, Maternity and SCBU (Special Care Baby Unit), Main and Day Surgery Theatres togeth er with an Intensive Care Unit and Coronary Care Unit.

Stratford-upon-Avon Ho spital - th is is one of the Trust's community hospitals and it include s a minor injuries unit, outpatients department, radiology department and an intermediate care ward.

These hospitals are no w at full ca pacity. Over the past th ree years the Trust has made good progress in establishing out-of-hospital services and pathways to deliver care clo ser to patients' homes to avoid unnece ssary hospital admissions and shorten stays in hospital. These changes have enabled the Trust to make better use of hospital capacity. However, there are now limited opportunities to further improve hospital capacity utilisation. This means that addition al healthcare infrastructure will be needed to support future population growth.

It is not sensible to plan further infrastructure on a piecemeal basis as applications for each new development come forward. The co st and planning implications of so doing are impracticable. Instead, the Trust has considered the anticipated housing growth across the South Warwickshire area and looked at the overall impact of the proposed increased population to develop an infrastructure strategy to serve the future healthcare needs of the growing population. This strategy takes into account the trend for the increased delivery of healthcare out of hospital and into the community and the impact of an ageing population on the provision of acute healthcare.

The Trust has used Strategic Needs Population Projections ("SNPP") data to identify the population growth projected for Warwick and Stratford localities over a 20 year plan period. These SNPP projections identify a 39,818 growth in population between 2011 and 2031 for Warwick and Stratford on Avon District Councils. This growth will be met by 20,972 new homes. Stratford on Avon District Council's Core Strategy proposes 10,800 new homes over the plan period, equivalent to a population of 15,960.

The healthcare needs of the anticipated demographic profile of the new population will generate hospital demand equivalent to 15,000 admissions and 53,000 outpatient appointments per year by the end of the plan period. This will require about 160 acute hospital beds, 16 outpatient clinic suites, a ssociated dia gnostic and intervention facilities, maternity and support service infrastructure. This indicates the additional capacity the Trust will need to provide to meet the healthcare needs of the new population and excludes any additional healthcare capacity it will need to provide in future to meet the needs of the ageing resident population.

The Trust proposes to meet these infrastructure requirements through 3 development projects, including 2 new ward blocks at Warwick Hospital Site which will deliver circa 96 beds and a new

Stratford Ho spital which will provide circa 50 beds, 16 new outpatient clinic suites, associated diagnostic and intervention facilities and support service infrastructure.

The full costs of these developments are estimated at around £68 million and the Trust will seek a contribution for the £35.7 million costs associated with the growth in housing. Until CIL is adopted, SWFT will seek a contribution towards Acute and Community Care from large sites through S106 agreements.

The Trust expects to borrow to rais e the primary funding fo r both projects. They also expect to raise charitable donations towards the projects and will request a CIL contribution from Stratford and Warwick District Councils to r eflect the additional de mands on healthcare arising from growth in housing.

5. Green Infrastructure, Open Space & Sports Provision

5.1 Introduction

The green infrastructure, open space and sports provision package put forward in the Schedule of Infrastructure Projects has a number of purposes:

- · To enhance ecology and biodiversity;
- To address climate change;
- To improve the provision of and public access to open space;
- To foster health and wellbeing through participation in sports and recreation; and
- Related to this, to encourage active ageing.

5.2 Biodiversity

The Warwickshire Coventry and Solihull Local Biodiversity Action Plan (LBAP) identifies the costs of achieving the LBAP habitat requirements to 2026. The costs of creating, restoring and enhancing habitats across the District to meet LBAP targets are estimated to be £792,000 per annum.

It is further estimated by Warwickshire County Council (Ecology) that around 90% of the £792,000 will be de livered through partners, including agri-environment schemes, Environment Agency schemes, biodiversity offsetting and public open space provision and enhancement delivered through S106.

This leaves a deficit of £79,200 per annum to deliver local green infrastructure needs. These will predominately be identified in Neighbourhood and Parish Plans and be funded by Town an depart Plans and Definition of Parish Councils' CIL receipts and other sources.

5.3 Open Space Strategy and Active Communities Strategy

Open space and active communities infrastruct ure proposed in this ID P is underpinned by an assessment of open space and sports needs undertaken in September 2011 and updated in April 2014, undertaken by Arup on behalf of the Council. It is supported by the District Council's Open Space Strategy and Active Communities Strategy and is in line with guidance from Sport England, Fields in Trust, Natural England and CABE.

Future development and associated population growth will create a need for new and improved public open spaces including urban and village green infra structure (e.g. street tre es, pocket parks and other amenity green spaces), par ks and gar dens, play areas, allot ments and improved access to the countryside. There will also be a need for new and improved indoor and outdoor sp ort and recreation facilities to sup port the health and wellbeing ag enda of an increased population, including measures to improve levels of physical activity, mental wellbeing and social inclusion.

In addition the manage ment of ope n spaces and recreational facilities will need to change to mitigate and adapt to climate change, including facilitating community food production (reducing air miles on food), planting drought and flood resistant species, planting to reduce surface water run-off and the introduction of water efficiency measures and low carbon energy usage at leisure facilities across the District.

The Schedule of Infrastructure Projects presents an assessment of the types of open space and sports provision required to meet needs, by broad settlement or type of settlement, to reflect the level and di stribution of growth set out in the Core Strategy. The open space w ill mostly be provided on-site and secured through S106 contributions although higher order facilities (such as the indoor sports provision) would generally be funded through CIL.

The Schedule also includes an indicative list of projects to further the aims and objectives of the Open Space and Active Communities Strategies and meet some of the requirements and/or shortfalls identified in the needs assessment. The more strategic projects listed could receive CIL funding. The smaller, more local projects could utilise S106 funding where this is paid in lieu of on-site provision (and subject to the limits on pooling S106 contributions). Developer contributions would be used to fund new or enhanced facilities to the extent that these a remeeting the needs of the Core Strategy's additional population.

6. Emergency Services

6.1 Police

This section is based on a paper from Warwickshire Police in response to the Further Focussed Consultation (March 2014). The Police response is the late st in a positive dialogue maintained throughout the preparation of the Core Strategy.

The direct and additional impacts of new development in the District on loca I policing will be manifested in demand and responses in the following areas:

- Additional calls and responses per year via the control centre;
- Attendance to additional emergency events within the locality each year;
- Additional non-emergency events to follow up with public contact each year;
- Additional recorded crimes in the locality;
- Additional need for custody facilities;
- Additional anti-social behaviour incidents each year;
- Demand for increased patrol cover;
- Additional vehicle use;
- Additional calls on the Airwaves system;
- Additional u se of the Police Nation al Database (PND) systems to process and st ore crime records and intelligence;
- Additional demand for deployment of Mobile CCTV technologies;
- Additional demand for local access to beat staff from local neighbourhood teams;
- Additional policing cover and interventions in all the areas described when considering staffing and functions a bove and for additional laccommodation from which to deliver these.

Where there is a large concentration of new homes, as in the case of the new settlement at Gaydon/Lighthorne Heath, Warwickshire Pol ice estimate that they will require a new Safer Neighbourhood Team (SNT) to be set up. This will require a Safer Neighbourhood Office to be secured through S106. It is estimated to cost around £450,000 (including fixtures and fittings but excluding police equip ment) if provided on a 'freestanding' basis. W arwickshire Police would, however, be keen to explore the possibilities of multi-agency / shared service provi sion and this would be likely to reduce that cost.

In addition the Police will seek a contribution from Stratford District Council's CIL receipts to help fund the additional general infrastructure requirements associated with meeting increased needs across the District. This would cover costs including police vehicles and custody provision.

A provisional figure in excess of £0.5m has been allo wed for this in the IDP pending a comprehensive review of service requirements later in 2014.

6.2 Warwickshire Fire and Rescue Service

The current objectives of the Warwickshire Fire & Rescue Service (WFRS) are to:

- Reduce the incidence of fires;
- Reduce loss of life in fires and accidents;
- Reduce the number and severity of injuries from fires and other
- emergencies
- Safeguard the environment and protect the national heritage; and
- Provide communities with value for money.

In new developments these objectives would be supported by the provision of fire hydrants, sprinklers and smoke detector alarms.

The WFRS consultation on proposals to change the way front line services are delivered in the future proposes a new service delivery point at Jaguar Lan d Rover in Gaydon. This is intended to improve response times for the community and bring benefits to the site occupiers. The new station is critical to WFRS's proposed response model. The service will review feedback from the ongoin g public consultation (due to end in June 2 014) before proceeding with any implementation plan.

The WRFS is reviewing its position on 'low water areas' and may seek CIL funding to increase water availability to such areas in the future.

6.3 Ambulance Service

The West Midlands Ambulance Service has largely completed it s 'Make Ready' project f or Coventry and Warwickshire with the provision of two new service hubs in Coventry and Warwick and a network of Community Ambulance Stations across the sub-region. These include stations at Stratford, Wellesbourne, Shipston and Sout ham. There is also a standby point in Alcest er. There are no outstanding requirements known during the plan period.

7. Water and Utility Services

7.1 Water Supply and Waste Water

Over most of the District, Severn Trent Water (STW) is responsible for water supply, the foul drainage ne twork and wastewater treatment. A small part of the District (the so uth-eastern corner) is covered by Thames Water.

Every five years each water company is obliged to pub lish a 25 y ear 'Water Resources Management Plan' setting out its ove rall strategy. STW are currently developing a plan to cover the period 2015-2040 that will be finalised in 2014. STW's current plan covers the period 2010 – 2035 and aims to:

- Reduce water demand by cutting leakage, encouraging household metering and increasing water efficiency;
- Improve su pply resilie nce by investing in a queducts, a quifer stora ge and recovery, providing new groundwater sources and improving the supply network; and
- Improve water quality by treating nitrates and preventing loss of deployable output due to worsening water quality.

Under the F lood and Water Manag ement Act (2010), new development will no longer have the automatic right to connect surface water drainage to sewers. This, combined with wat er efficiency measures and metering of all new development, will reduce the new net burden on the wastewater network and at the treatment works (WwTWs).

Within the District there is generally capacity in the waste water treatment works to deal with the proposed level and distribution of growth set out in the Core Strategy. However, some works will require investment and development will need to be phased accordingly. STW request that they are consult ed at an early stage of development proposals. Those WwTW likely to need upgrading during the Core Strategy period are listed in the Schedule of Infrastructure Projects. Some upgrading of the foul drainage network will also be required.

Site based infrastructure and network connections for water supply and collection of waste water will be provided by developers. STW will generally meet the cost of any upgrades to water supply and foul drainage networks and waste water treatment facilities.

The water supply network is only likely to need significant upgrading in relation to the proposed new settlement at Ga ydon/Lighthorne Heath. Di scussions will continue with the de velopers of the new settlement as the implications of adding this scale of development to the rural water supply and foul drainage networks are very significant.

STW analysis shows that the most significant risk to long term supply and water quality is the impact of climate change. Policies in the Core Strategy address water conservation and the appropriate use of Sustainable Urban Drainage Systems to reduce pressure on water supply and treatment works.

7.2 Flood Risk Assessment and Flood Alleviation and Defences

River Flood Management

The Environment Agency is the lead agency on management of river flooding. Almost the entire District is covered by the River Severn Catchment Flood Management Plan (CFMP) with just the north west corner falling into the Trent's catchment. The CFMP is a high level document produced by the Environment Agency with strategic policies designed to plan flood risk management in the catchment over the next 50-100 years. The CFMP for the River Severn was published in September 2008.

The River Avon and its tributaries r un through the District. A large number of settlements are located with in existing Flood Zones 2 and 3 and are therefore already at risk from flu vial flooding. The Core Strategy specifies that new development must not increase risk to exist ing development.

Support will be given to flood alleviation mea sures under considerati on by the Environment Agency by safeguarding possible sites for storage and oth er channel works where necessary. The Environment Agency is currently planning flood alleviation works in Ship ston-on-Stour, Henley-in-Arden and along the Racecourse Brook in Stratford.

The works in Shipston-on-Stour (e stimated to cost £500-800k) would benefit the heart of the town, mainly the Church Street, Mill Street, West Street and Telegraph Street area. The works in Henley-in-Arden would benefit the High Street/Beaudesert Lane and Prince Harry Road area and would cost approx imately £800k-£1.2m. Whilst the se schemes would offer protection to existing properties they would also significantly reduce the risk of flooding of central areas. This would encourage regeneration of currently disuised units as well as opening up additional areas for commercial and residential redevelopment.

The Environment Agency is also planning an alleviation scheme along the Racecourse Brook to the north-west of Stratford-upon-Avon. This will provide additional stora ge to protect commercial and residential properties against f looding on the eastern side of Birmingham Roa d (including Tesco and land to the n orth west of that site). Adjacent fields in the up stream catchment have

been identified as a potential location for the storage. This project is anticipated to cost approximately £750-900k.

The main sources of funding for these projects are likely to be the Environment Agency's Flood Defence Grant in Aid (FDGiA) and Local Levy, contribut ions from local busine sses and land owners, and Severn Trent Water for the scheme on the Racecourse Brook. CIL or S106 funding will also be sought to contribute to the cost of works where they facilit ate g rowth. The Environment Agency states that it will only be able to deliver the above schemes through partnership funding. It under stands that it is essential to seek opport unities to work with developers and local communities to enable new developments to make a positive contribution to reducing flood risk.

Level 1 Strategic Floo d Risk Asse ssments (SFRAs) provide information on current and future flood risk fr om all sources, taking into account climate change. They are designed to enable decision makers to allo cate development and infrastructur e where risks are minimised. They also seek to identify where flood alleviation measures are required to protect existing properties. Stratford District updat ed its floo d risk assessment in Septembe r 2013 and will do so approximately every five years to en sure that the risks are properly un derstood. A contribution may be sought from CIL for this purpose.

The 2013 SFRA highlights a number of potential future (flu vial) flood alleviation sch emes in the District, which have be en identified by the Environment Agency as pot entially benefiting local communities. These comprise the following locations:

- Bell Brook, Snitterfield;
- Lot Brook, Southam;
- Cherington, near Shipston on Stour; and
- Fenny Compton.

A contribution towards these flood alleviation measures could be sought from CIL or S106 where the works would enable new properties to be built without unacceptable risk of flooding. There is also a single case of surface water flooding identified in the SFRA (at Gaydon) – see below.

Surface Water Flood Management

As surface water flooding is a kn own issue in Stratford-on-Avon Di strict, a Su rface Water Management Plan is r equired to enable opp ortunities to reduce existing risk t hrough new development to be maxi mised. This is the responsibility of Warwickshire County Council as the Lead Local Flood Authority.

Some areas suffer from surface water flooding from artificial drainage, surface water and field runoff, particularly at times of hea vy and prolonged rainf all. The Co re Strategy locates ne w development in areas of lowest flood risk and specifies that new development must not increase risk to existing develop ment. Contributions may be sought from strategic sites to contribute to flood risk management facilities where there is flooding downstream of a development.

The case of surface water flooding identified in the SFRA at Gaydon will be alleviate d by works planned as part of the Gaydon/Lighthorne Heath new settlement proposal.

Under the Flood and Water Manag ement Act (2010), new development will no longer have the automatic right to connect surface water drainage to sewers. Developers will be re quired to put Sustainable Drainage Systems (SUDS) in place in new developments. These should ensure that the effect of surface water runoff is consistent with green field rates on green field sit es and that run off rates are attenuated on brownfield sites, as required by the Environment Agency.

Further detail is provided in the Warwickshire Sub-Regional Water Cycle Study (Halcrow, 2010) and the Water Cycle Study Updates (URS, 2012 and 2014).

7.3 Electricity, Gas and Renewable/Low Carbon Energy

Electricity

National Grid owns, maintains and o perates the electricity transmission network in England and supplies energy from g enerating stations to local distribution companies. The lo cal distribution company in Stratford on Avon District is West ern Power distribution. It is their rolle to provide electricity to homes and businesses.

Western Power Distribution has stated that the electricity distribution networks can cope with the scale of gro wth predicted in the plan. They wo uld wish to be consulte d, however, at an early stage, on the development of any strategic sites.

On any individual site, connection to the network is the responsibility of the developer.

Policies in the Core Strategy aim to impro ve energy efficiency and encourage the use of renewable energy, thereby reducing pressure on the grid.

Gas

National Grid owns and operates the gas distribution networks through which gas is transported to users. It also is the gas supplier in the West Midlands. It has reported that it can cope with the scale of growth predicted in the Core Strategy.

On any individual site, connection to the network is the responsibility of the developer.

Renewable and Low Carbon Energy

Policy CS.2 Climate Change and Sustainable Construction encourages the development of renewable and low carbon energy infrastructure.

The mechanism of 'Allo wable Solutions', where by payment is made into a fund to offset carbon reduction targets that cannot be met on site, is potentially a signif icant source of funding for low and zero carbon energy projects. Work is ongoing within central Government to establish a definition of zero carbon and the scope, governance and implementation of Allowable Solutions Funds.

The District Council is committed to establishing an Allowable Solutions Fund for I ocal projects. It could top this up with CIL revenues, or Town and Parish Councils could contribute a share of their CIL monies, for individual projects that meet local priorities.

7.4 Broadband

For the short to medium term, growth in broadb and services across the District will be realised through a combination of:

- Commercial expansion of 'next g eneration' b roadband services in the more densely populated areas; and
- participation in the Coventry Solihull and War wickshire Superfast Br oadband Project, supported by BDUK, which is wor king in part nership with British Telecom to roll out superfast broadband to those areas that are not commercially viable.

This project, commenced in March 2011 and running until December 2015, aims to deliver the Government's 2015 targets, as set out in the December 2010 strategy document *Britain's Superfast Broadband Future*, that everyone should be able to access broadband at speeds of at least 2Mbps and that su perfast broadband (minimum 24 Mbps) should be available to 90% of premises in each upper tier authority. It is expected to exceed these targets to provide the following benefits:

- By 2016 all domestic and business premises will have access to broadband speeds of at least 2Mbps, with 91% of premises in the sub-region able to access superfast services;
- Improved a ccess t o br oadband in rural and non-rural areas for small and medium enterprises (SMEs) and citizens through the delivery of increased spee ds to more areas in the sub-region;

- An opportunity for community grou ps and SMEs to develop broadband facilit ies further still on a "Big Society" basis if their areas are not fully covered by the proposals; and
- An enabling of E-service delivery across the public sector.

The Core Strategy looks beyond the aims of the sub-regional broadband project and seeks all new development to have connections enabling download speeds of 30Mbps in accordance with the Govern ment's commit ment to the EU2020 Digital Agenda. Where no strateg is telecommunications infrastructure is available, developers should provide suitable ducting to the premises for later connection.

8. Other Social Infrastructure

8.1 Libraries and Cultural Facilities

Discussions are on-goi ng with Warwickshire County Council abou t appropriat e developer contributions to enable the library service to serve the expanded population.

A new library is likely to be required at the new settlement at Gaydon/Li ghthorne Heath, funded via a S106 payment from the developer. This is likely to be collocated with other community facilities. A provisional cost of £1.9 m has been allowed.

Money may also be so ught from CIL to support commu nity libraries (to fund st ock and Eservices, for example) and to support the mobile library service. An initial estimate from WCC based on Department for Culture, Media and Sport (DCMS) guidelines, updat ed by SDC, suggests that a CIL contribution of around £115,000 might be appropriate over the Core Strategy period.

Schedule of Infrastructure Projects

Note: Phase 1:2011/12 - 2015/16; Phase 2: 2016/17 -2020/21; Phase 3: 2021/22 - 2025/26; Phase 4: 2026/27 - 2030/31

Table 1 - Main Schedule

Costs are indicative only as schemes are not yet defined in detail

1 - Transport & Highways									
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?			
Stratford Transport Package									
(01) Tiddington Road/Banbury Road/ Shipston Road 'Alveston Manor' junction including improvements to Banbury Road/Shipston Road roundabout – traffic signalisation to co-ordinate with the Bridgeway Gyratory scheme			Phase 1 or 2	£1.03 m	CIL, other	Critical			
(02) Bridgefoot/Bridgeway Gyratory – further co-ordinated traffic signalisationof Bridgeway/Bridgefoot and Bridge Street entry arms			Phase 1 or 2	£0.83 m	CIL, other	Critical			
Schemes (01) and (02) now being promoted as a single project									
(03) Evesham Road/Evesham Place roundabout – reconfiguration to a traffic signalised junction	wcc	Developers, SDC	Phase 3	£0.8 m	CIL, other	Critical			
(04) and (05) deleted as not viable									
(06) Improvements to Shipston Road/ Clifford Lane Roundabout	WCC	Developers, SDC	Phases 3 & 4	£0.55 m	CIL	Critical			
(07) Improvements to Shipston Road/Severn Meadows Road/ Trinity Way Roundabout Schemes (06) and (07) now being promoted as a single project	wcc	Developers, SDC	Phases 3 & 4	£0.55 m	CIL	Critical			

(08) Birmingham Road widening between Regal Road and Hamlet Way	WCC D	evelopers, SDC	Phase 3 or 4	£1.7 m	CIL	Critical
Birmingham Road Study Schemes			Phases 1-4	£185,000+	CIL, other	Some critical
Short Term (next 5 years) (a) Inbound slip lane into Tesco car park (developer funded)						
(b) Improvements to strategic signing – approx. £50,000						
(c) Pedestrian and cycle route improvements (not covered by SRZ)						
(d) Birmingh am Road/Justins Avenue junction improvements - approx. £50,000						
(e) CCTV to improve operation of traffic signals on Birmingham Road corridor – approx. £85,000						
Medium Term (5-10 years subject to further feasibility assessment) (a) Maybird Shopping Park access improvements – scheme yet to be developed						
(09) Improvements to Birmingham Road/A46 'Bishopton Roundabout'	Highways Agency	WCC, Developers, SDC	Phases 3 & 4	£2.50 m	CIL, Highways Agency	Critical
(10) Improvements to Alcester Road/A46 'Wildmoor Roundabout'	Highways Agency	WCC, Developers, SDC	Phases 3 & 4	£ 2.50 m	CIL, Highways Agency	Critical
(11) Shakespeare Street/Mulberry Street one-way	WCC D	evelopers, SDC	Phase 3 or 4	£0.20 m	CIL	Critical
(12) Guild Street/Great William Street traffic signals	WCC D	evelopers, SDC	Phase 3 or 4	£0.20 m	CIL	Critical
Schemes (11) and (12) being promoted as a single project		SDC				
(13) Improvements to Warwick Road/A46 'Marraway Roundabout'	Highways Agency	WCC, Developers, SDC	Phase 3 or 4	£0.40 m	CIL, Highways Agency	Critical
(14) Bridgeway/Warwick Road traffic signals	WCC D	evelopers, SDC	Phase 3 or 4	£0.20 m	CIL	Critical

Warwick Road Dynamic Signage Strategy	WCC High	ways Agency, Developers, SDC	Phase 2 or 3	£1.0 m	CIL, Highways Agency	Critical
On and off road pedestrian and cycle projects, including: (a) minor cycle infrastructure improvements contributing towards delivery of the Cycle Strategy within Local Transport Plan 2011-2026;	WCC or landowner/ developer	SDC, Sustrans, WCC, landowner/ developer	Lifetime of Core Strategy	(a) £30,000	CIL (cumulative impacts and completing strategic routes);	Some critical
(b) other projects to facilitate walking and cycling across the district				(b) n/a	S106/ part of development (S278/ S38) where related to specific sites	
Canal Quarter Regeneration Zone localised mitigation package, including: (a) Enhanced pedestrian and cycle link on Birmingham Road & Alcester Road including spurs to Masons Road and town railway station (section to the south of the canal falls within the site and so is part of the development package); (b) Pedestrian/ cycle bridge across the canal (c) Roa d/junction improvements	Developers	WCC, SDC	Phases 3 & 4	(a) + (b) pedestrian/ cycle links (incl canal bridge) estimated at £0.8 m (c) n/a	S106/ part of development (S278/ S38)	Critical
Stratford Western Relief Road (Evesham Road to Alcester Road)	Developer	WCC	Phases 2-4	£8.0 m	Part of development (S278/38)	Critical

Transport and highways infrastructure for proposed new settlement at Gaydon/Lighthorne Heath:						
A. Strategic Highways Infrastructure See separate schedule at Table 2 (Infrastructure Trajectory for Gaydon/Lighthorne Heath and JLR Employment)	A.Developers	A. Highways Agency, WCC,SDC	A. Phase 2	A. £20.75 m including some costs to be shared with Warwick District Council Local Plan	A. – D. Developer (S278/38 and S106); Highways Agency	A D. Most provision critical
B. Localised traffic mitigation/management measures Contingency sum of £1,000 per dwelling allowed for schemes yet to be identified C. Public Transport	B. Developer	B. Highways Agency, WCC,SDC	B. Phase 2	B. £2.5 m	B. Developer (S278/38 and S106); Highways Agency	
TBC – likely to include Park & Ride and express bus service	C. Developer	C. Bus Operator, WCC	C. TBC	C. n/a	C. Developer/ other	
D. Pedestrian and Cycle Links TBC – likely to include at least the following schemes i) Priority: Link to Learnington via B4100 / Chesterton / Whitnash: approx £800k - 1m Link north from site over M40 via existing bridleways / new bridge: approx £500k	D. Developer	D. WCC, Highways Agency, SDC, other	D. TBC	D. n/a	D. Developer/ other	
ii) Other: Other minor improvements to road network to provide connections to existing leisure routes / local destinations: approx £500k						
Widening of M42 north of Junction 3A Highways Agency has retained this route protection as widening may be required in future	Highways Agency		Possible Phase 3 or 4 (or longer term)	n/a High	ways Agency	

Improving the A46(T) between Alcester and Stratford-upon-Avon (long term aspiration in LTP3)	Highways Agency	WCC	Possible Phase 3 or 4 (or longer term)	n/a High	ways Agency	
Improving M40 Junction 12 Includes capacity for an additional 5,000 jobs at JLR/Aston Martin (excludes further improvements associated with a new settlement at Gaydon/Lighthorne Heath)	Highways Agency/WCC	Land owner/ JLR	Phase 2 (due for completion 2015)	£12 m	Highways Agency, WCC, Regional Growth Fund, Local Pinch Point Funding	Critical
Stratford Parkway Station	Network Rail	WCC, SDC, private contractor	Completed and opened 2013	£8.8 m	UK Government's Local Sustainable Transport Fund, WCC, other	

2 - Education								
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?		
Primary Schools Investment likely to be needed to increase capacity at the following: Stratford primary schools (new schools and investment in existing provision) Southam primary schools St Nicholas CE Primary, Alcester Bidford Primary Ettington Primary Temple Herdewycke Primary The Dassett CE Primary, Fenny Compton Quinton Primary Shipston Primary	Various	WCC, other education providers, SDC, private sector	Lifetime of Core Strategy	£12.2m (excl cost of pre- school provision)	CIL, S106, Government	Critical		
New settlement at Gaydon/Lighthorne Heath: • new primary school (3 FE) with co-located nursery	Developer	WCC, other education providers	Phases 2-3	£ 6.3 m	S106	Critical		

Secondary Schools Investment may be needed to increase capacity at the following: • Stratford (expansion of existing provision or possible new school) • Southam College • Henl ey High • Kineton High (with possible upgrade in facilities) • A Icester Academy • Grammar schools and Catholic High Schools • Shipston High Academy (6 th Form provision)	Various	WCC, Academy, Foundation and other Schools, SDC, private sector	Lifetime of Core Strategy	£27.8 m	CIL, S106, Academy Funding, other	Critical
New settlement at Gaydon/Lighthorne Heath:						
Upgrading and expansion of Kineton High School	Developer	wcc	Phases 2-4	£6.7 m	S106	Critical
Special Needs Provision (primary and secondary	WCC Other	education providers, developers	Lifetime of Core Strategy	£380,000	S106	Critical

3 – Primary and Acute & Community Health Services' Infrastructure								
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?		
Primary Health Care								
a) Stratford-upon-Avon: approx. 2 clinical rooms and associated infrastructure	South Warwickshire Core Commissioni	Developers, Public Health Warks, NHS England, NHS	Lifetime of Core Strategy	a) £61,000 +	a) S106 and/or CIL	Critical		
b) LSVs and other rural: approx. 2 clinical rooms and associated infrastructure	ng Group (CCG)	Property Services, GPs and		b) £61,000 +	b) S106 and/or CIL	Critical		
c) New 4GP practice facilities at Gaydon/Lighthorne Heath		other private sector, SDC		c) £2.2 m (gross)	c) S106	Critical		

Community and Acute Hospital Services' Infrastructure	South	WCC, SDC,	Lifetime of	a) £24m of which some	Private	Critical
a) A new ward block at the Warwick Hospital site - the main acute hospital services site	Warwickshire NHS Foundation	primary health organisations	Core Strategy	£17m sought from CIL or S106	borrowing, charitable donations,	
b) A new hospital at the Stratford Hospital site including outpatient,	Trust	organicationic		b) C44m of	S106, CIL	
diagnostic, treatment and inpatient facilities and a hub for community healthcare teams				b) £44m of which some		
				£18.7m sought from CIL or S106		

4 –Green Infrastructure, Open Space and Sports Provision								
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?		
Green Infrastructure (biodiversity aspects) The Coventry Solihull and Warwickshire Biodiversity Action Plan for Stratford-upon-Avon District. Projects to be identified on an on-going basis; including on-site and off-site measures by developers; agrienvironment schemes; local projects identified by Town and Parish Councils in Neighbourhood Development Plans and Parish Plans etc.	Various	WCC, SDC, Parish and Town Councils, land owners, others	Lifetime of Core Strategy	Biodiversity Action Plan estimated to cost £792 per annum in Stratford District	 Grant's (landfill tax, HLF etc. Develo pers/ land owners with on-site green infrastructure; Biodivers ity offsetting; CIL; Agrienvironment schemes; Environment Agency; Voluntary sources; Town & Parish Councils (CIL monies) 	Some provision critical		

Open Space and Sports Provision (Details in Open Space Needs Assessment)						
Stratford-upon-Avon	Developer S	Council, other	Phase 1 to 4	n/a	Shotter y and Canal Quarter S106 (on-site provision or financial payment for off-site provision or enhancement of existing facilities) Else where S106//CIL	Some provision critical
Gaydon/Lighthorne Heath New Settlement PGA CYP ANG ACO Also Outdoor and Indoor Sports (OIS), including provision of a community sports facility including a swimming pool and sports hall, to serve this and surrounding villages, on or off-site	Developer S	DC, Parish Council, other	Phase 2 to 4	n/a	S106 (on-site provision) S106/CIL/Other	Critical
Main Rural Centres Various requirements across the MRCs (details in Needs Assessment) including all the following typologies in at least one centre: • PGA • CYP • ANG • ACO • OIS	Developers	Town and Parish Councils	Phase 1 to 4	n/a	S106/CIL Town & Parish Councils	Some provision critical
Local Service Villages Various requirements across the LSVs (details in Needs Assessment): PGA (especially in category 1 LSVs) CYP ACO (especially in categories 2, 3 and 4 LSVs)	Developers	Parish Councils	Phase 1 to 4	n/a	S106/CIL Parish Councils	Some provision critical

Indicative Projects (to meet future needs [using CIL/S106] and address shortfalls/other objectives [using other sources of funding]) a) Improvement to pathways, new signage and seating at the Recreation Ground and ground reinstatement to redevelop existing surfaces at North Recreation Ground and Bancroft Gardens (PGA)	SDC	Public Health Warwickshire	Lifetime of Core Strategy	£550,000	Lotter y Funds CIL/S106 Capit al/ Revenue
b) Tree planting on all existing sites to mitigate climate change through provision of greater shade and tree species suited to changing weather patterns (PGA)	SDC Public	Health Warwickshire, WCC Ecology	Lifetime of Core Strategy	£31,000	Budgets The Landscape Group Carbon Offsetting The Tree Council Lan dfill Tax Credits
c) 3 Outdoor Gyms to be installed in Stratford Town and the main rural centres across the District (PGA/CYP)	SDC or Town/ Parish Council	SDC or Town/ Parish Councils, Public Health Warwickshire	Lifetime of Core Strategy	£15k per facility	CIL/S106 External play space related grants Town & Parish Councils
d) Creation of pathways and some signage and seating at Shottery Fields and Bridgetown Meadowlands (ANG)	SDC Public	Health Warwickshire	Lifetime of Core Strategy	£50,000	S106/CIL Capit al and Revenue Budgets
e) Enhancement and development of the Warwick Road Lands, Stratford-upon-Avon, to include pathway improvements, information boards to improve accessibility to nature and education on the site (ANG)	SDC Public	Health Warwickshire, WCC Ecology	Lifetime of Core Strategy	£100,000	Lan dfill Tax Credits Lotter y Funds CIL/S106
f) Creation of landscaped wildflower meadow within Stratford-on-Avon (ANG)	SDC or Town/ Parish Council	Public Health Warwickshire, WCC Ecology, Parish/Town Councils	Lifetime of Core Strategy	£20,000	Town & Parish Councils Prince Charles fund CIL/S106
g) 7 Multi Use Games Areas (MUGA's) to be installed in Stratford Town and the Main Rural Centres across the District (CYP)	SDC or Town/ Parish Councils	Public Health Warwickshire	Lifetime of Core Strategy	£100k per facility	CIL/S106 External health related grants Town & Parish Councils

h) 5 Measured Miles (400 metre loop) and improved signage (Rural & urban) to be installed in Stratford Town and the Main Rural Centres across the District i) Enhancement of destination play spaces – recreation ground and skate park (play equipment) (CYP)	SDC or Town/ Parish Council	SDC or Town/ Parish Councils, Public Health Warwickshire	Lifetime of Core Strategy Lifetime of	Rural £50k per facility £10k Urban signage	CIL/S106 External health related grants Town & Parish Councils CIL
	Stratford Town Council	Councils, Public Health Warwickshire	Core Strategy	facility	 SDC Capital /Revenue Budgets External health related grants
j) Enhancement of local play spaces arising from greater use linked to the new development. To include play equipment and landscaping to create contours ('lumps and bumps') to promote increased and different usage (CYP)	SDC or Town/ Parish Council	SDC or Town/ Parish Council, Public Health Warwickshire	Lifetime of Core Strategy	£20k per facility	 \$106 \$DC Capital Revenue Budgets External health related grants
k) Enhancement of the 3 District Council leisure centres outside of Stratford Town (including possible provision of a sports hall at Shipston to serve the town and surrounding villages including Brailes, Treddington and Long Compton) (OIS).	SDC or WCC or Town & Parish Councils	Public Health Warwickshire	Lifetime of Core Strategy	£150k per facility (more if incl new sports hall)	 CIL SDC Capital/ Revenue Budgets External health related grants
I) Creation of new allotments/community orchards across the District (ACO)	Town & Parish Councils	Public Health Warwickshire SDC	Lifetime of Core Strategy	£50,000	 CIL/S106 Town & Parish Councils Lottery Funds Capital / Revenue Budgets The Tree Council Natural England Landfill Tax Credits DEFRA

5	- Emergency	/ Services				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?
Police	·			, ,		
a) Custody provision : additional cells	Warwickshire Police	Developers, WCC, SDC	Lifetime of Core Strategy	TBC	CIL, other sources	
b) Other police equipment and costs including vehicles, communications technology and surveillance equipment	Warwickshire Police	Developers, WCC, SDC	Lifetime of Core Strategy	£0.5 m	CIL	
c) A Safer Neighbourhoods Unit is likely to be required at the new settlement at Gaydon/Lighthorne Health	Warwickshire Police	Developers, WCC, SDC	Phase 3	£450,000	S106	Critical
Ambulance Service						
The service has recently implemented a premises review. There are no further requirements known during the plan period.	West Midlands Ambulance Service	n/a	n/a	n/a	n/a	
Fire & Rescue						
Proposed new service delivery point at Jaguar Land Rover	Warwickshire Fire & Rescue Service (WRFS)	Jaguar Land Rover	Phase 1	£0.5 m	CLG Transformation Funding Application	Critical to proposed response model
Provision of hydrants	Developers	WFRC	Lifetime of Core Strategy	n/a	S106/ development costs	Some critical
Possible future project for Low Water Areas	WFRS	Private sector, WCC, SDC	TBC	n/a	CIL, other sources	

6 –	6 - Water and Utility Services Lead Other Partner Organisations Timescale Costs (£) Costs (£) Costs (£) Costs (£)													
Infrastructure	Lead	Other Partner	Timescale		Funding									
Water Supply and Waste Water Treatment	Delivery	o.gamoanono		COSIS (£)		Delivery ?								
Water Supply – development of a new settlement at Gaydon/ Lighthorne Heath will require upgrading of the water supply infrastructure.	Severn Trent Water	Private developers, Environment Agency, SDC	Phases 2- 4	n/a	Severn Trent Water (private developers for on-site works and local	Critical								
2. Waste Water					connections)									
The following Waste Water Treatment Works are likely to need upgrading:														
 Wellesborne C herington Gaydon Pr iors Marston Tysoe 														
This list derives from the Council's Water Cycle Study Update 2014 which assessed the capacity of the District's WwTWs to accommodate the Core Strategy's proposed level and distribution of growth. There may be additional WwTWs that require further work over the plan period but these were not identified in that study.														
Certain areas of the foul drainage network will also need upgrading, especially in relation to the proposed new settlement at Gaydon/Lighthorne Heath.														
Strategic Flood Risk Assessment (SFRA)	SDC WCC,	other districts and boroughs, Environment Agency	Every 5 years during lifetime of Core Strategy	£8,000 per SFRA; 3 further FRAs are likely to be needed by 2031	Capital Reserves, CIL	Critical								
Flood Alleviation and Defences														
The Environment Agency is currently planning flood alleviation works in Shipston-on-Stour, Henley-in-Arden and along the upper reaches of Racecourse Brook, Stratford. (The flood alleviation works on the Racecourse Brook would reduce flood risk to existing properties and	Environment Agency	Defra, WCC, SDC, STW, landowners/ developers,	Phases 2-3	£2.0 - £2.9 m	Environment Agency (FDGiA, Local Levy), commercial	Critical								

alleviate flood risk on the Birmingham Road and at the Maybird Centre. This scheme will require partnership funding to secure delivery.)		Town and Parish Councils			contributions, STW at Racecourse Brook	
The 2014 SFRA identified potential further works to flood defences at Snitterfield, Southam, Cherington and Fenny Compton but these will not generally be related directly to new growth (use of SUDS and water recycling measures will ensure no developments increase flood risk). CIL/S106 may be sought where the works will facilitate further growth. S106 may also be required to deal with on-site or downstream flooding on large developments (e.g. to deal with surface water flooding at Gaydon as part of the new settlement proposals).	Environment Agency	Defra, WCC, SDC, landowners/ developers, Town and Parish Councils	Phases 3-4	n/a	Environment Agency (FDGiA, Local Levy), STW, commercial contributions, S106/CIL	
Improvements to the Alveston Manor Junction may provide an opportunity to alleviate flood risk along the Shipston Road and should be investigated as part of these works	Environment Agency	WCC/ Highways Agency/ Local Community	Phase 2	n/a	Food Defence Grant in Aid Funding from EA	
School re-development or expansion may provide opportunities to install SuDS features to mitigate against loss of green areas. SuDS features such as ponds can provide educational benefit.	Various	WCC (education)/ Academy schools/ EA	Lifetime of Core Strategy	n/a	EA, WCC, S106/CIL	
Surface Water Management Plan and Local Flood Risk Management Strategy	WCC EA,	SDC, landowners/ developers, Town and Parish Councils	Lifetime of Core Strategy	n/a WCC		Critical
Gas and Electricity	National Grid	Western Power Distribution, private developers, SDC	Lifetime of Core Strategy	n/a Utility	(power) companies and developers	Critical
Renewable/Low Carbon Energy Projects	Various Variou	ıs	Lifetime of Core Strategy	n/a Allowabl	e solutions fund, CIL, other	

Improving Telecommunications						
Stratford-on-Avon District Local Broadband Plan (part of the Coventry, Solihull and Warwickshire Superfast Broadband Project)	Coventry Solihull and Warwickshire Broadband Partnership (CSWBP) and private contractor (British Telecom)	SDC, LEP, Parish and Town Councils, Coventry University, DEFRA, European Commission	Government funds to be spent by 2015; Overall plan to be complete by 2018.	£14.47 million across the CSW partnership area	Central government; CSWBP, European Regional Development Fund (ERDF), Lottery Funds, DEFRA, CIL, British Telecom	
Further development of strategic network after completion of the Coventry, Solihull and Warwickshire Superfast Broadband Project	Various	Private contractors of telecom services, SDC, Town & Parish Councils	Lifetime of Core Strategy	n/a	Government Grants, CIL, Town and Parish Councils, commercial sources, other	
Connections to the strategic network (or ducting to the public highway/other suitable location) to be made by developers of all new premises.	Developers	Various	Lifetime of Core Strategy	n/a	Part of normal development costs	

7 –	Other Social I	nfrastructure				
Infrastructure Type / Project	Lead Delivery	Other Partner Organisations	Timescale	Estimated Costs (£)	Funding	Critical to Delivery?
Libraries a) support to library service including community libraries (stock purchase and E-services)	a) WCC or Town & Parish Councils	a) SDC, WCC/Town & Parish Councils	a) Lifetime of Core Strategy	a) 115,000	a) CIL, Town & Parish Councils	
b) new library and community meeting space at Gaydon/Lighthorne Heath new settlement	b) developer	b) WCC, SDC, PC	b) Phase 3	b) £1.9 m	b) S106	

Table 2: Infrastructure Trajectory for Gaydon/Lighthorne Heath New Settlement and JLR Employment

SCENARIO 2 - JLR extant plus Gaydon Lighthorne Heath housing and JLR employment	Phasing	0	0	120	170	170	170	170	170	170	170	170	170	170	170	170	170	170
	Cum Total	0	0	120	290	460	630	800	970	1140	1310	1480	1650	1820	1990	2160	2330	2500
Scheme Reference/Infrastructure Requirement	Cost (£ m)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
Transport																		
1. M40 Junction 12 northbound on-slip lane	3.00					3.00												
2. Extended right turn lane at Gaydon junction (< 100m)	0.10							0.10										
3. B4100 widening (Heritage Motor Centre to M40 Junction 12) (extra lane s'bound)	1.00							1.00										
4. M40 capacity enhancements - lane gains/lane drops between Jn 12 and 13	5.00							5.00										
5. Signalisation of M40 Junction 13 northbound off-slip	0.30							0.30										
6. Widening of Fosse Way/Southam Road roundabout	0.50							0.50										
7. Contingency for localised traffic impacts in villages only	2.50							2.50										
8. Fosse Way/Chesterton Road/Harbury Lane junction improvements	0.40							0.40										
9. Right turn bay into Meadow Close/Spinney Close off B4100 Chesterton Hill	0.10				0.10													
10. Signalisation of Greys Mallory	0.15							0.15										
11. Dualling of A452 Europa Way corridor	8.50							8.50										
12. Widening of A452 Europa Way/Harbury Lane Roundabout	0.75							0.75										
13. A452 Banbury Road/Gallows Hill northbound flare/Warwick Tech Park roundabt	0.45							0.45										
14. A425 Myton Road/Banbury Road signals	0.50							0.50										
Other Infrastructure																		
15. New primary school (3 FE) with co-located nursery	3.5								3.50									
16. Contribution to Kineton Secondary School	13.0						6.5						6.5					
17. New 4 GP Facility (646 sqm)	2.30							2.30										
18. Safer Neighbour Team Premise (potentially co-located)	0.45										0.45							

19. Provision of public open space, children's play space and leisure.	0.00																	
20. Provision or improvement of libraries and community facilities	1.90										1.9							
21. Public open space and play/recreation and sport	tbc																	
Total S106/278 costs including items shared with WDC Local Plan	44.4	0	0	0	2.35	3.0	6.5	22.45	3.5	0	2.35	0	6.5	3.5	0	0	0	0

Notes:-

- (a) Also funded by WDC Local Plan
- (b) JLR extant planning permission assumed to be fully built-out by 2015/16
- (c) The transport estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory
- (d) Assuming (b) no more than 500 houses could be accommodated without Scheme 1
- (e) Scheme 9 would be required with 200 500 dwellings
- (f) It is assumed that all JLR employment would be built-out before 2021 the full mitigation package would therefore be required by 2021 and may be required prior to this depending on the actual employment trajectory
- (g) Scheme 7 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station Site
- (h) Costs related solely to the new settlement and not the expansion of JLR ('Scenario 1') are reported in the report: Viability and Delivery of Strategic Sites, Peter Brett Associates, April 2014

Table 3: Infrastructure Trajectory for Canal Quarter (SUA 1) and Related Employment Sites (SUA 2 and SUA 3)

		Phasing	0	0	0	0	40	55	55	55	55	55	55	55	55	55	55	55	55
Scheme Reference/Infrastructure Requirement		Cum Total	0	0	0	0	40	95	150	205	260	315	370	425	480	535	590	645	700
Canal Quarter SUA 1	CIL or \$106/ \$278	Cost (£ m)	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31
1. A4390/B493 Evesham Place Roundabout	S106/S278	0.23										0.23							
2. A3400 Birmingham Road	S106/S278	0.49																0.49	
3. A46/A3400 Bishopton Roundabout	S106/S278	0.73										0.73							
4. A46/A422 Wildmoor Roundabout	S106/S278	0.73											0.73						
5. Extension/modernisation of existing health premises	S106	0.06											0.06						
6. Improvements to Community Centre and Library Provision	S106	0.35											0.35						
7. New 1 FE primary provision (off site)	S106	2.25													2.25				
8. Secondary School Place contributions	S106	1.50													1.5				
Total S106/278 Cost		6.34	0	0	0	0	0	0	0	0	0	0.96	1.14	0	3.75	0	0	0.49	0
Stratford Transport Package (+ contingency)																			
9. A3400 Alveston Manor and Shipston Rd/A422 Banbury Rd Roundabt	CIL	0.30																	
10. A3400 Bridgefoot/Bridgeway Gyratory	CIL	0.24																	
11. A3400 Shipston Road/B4632 Clifford Lane Roundabout	CIL	0.32																	Ì
12. A3400 Shipston Road/A4390 Seven Meadows Road Roundabout	CIL	0.32																	1
13. Strategic Signing Improvements	CIL	0.29																	
14. Shakespeare Street/Mulberry Street one-way	CIL	0.06																	
15. Guild Street/Gt. William Street traffic signals	CIL	0.06																	
16. A46/A4239 Marraway Roundabout	CIL	0.04																	
17. A3400 Bridgeway/A439 Warwick Road	CIL	0.04																	
18. Contingency for unforeseen traffic impacts	CIL	0.70																	
Total Cost (S106/278 + potential CIL funded items)		8.39	0	0	0	0	0	0	0	0	0	0.96	1.14	0	3.75	0	0	0.49	0
																			İ

Employment sites SUA 2 and SUA 3																			
20. A46/A3400 Bishopton Roundabout	S106/S278	0.4										0.4							
21. A46/A422 Wildmoor Roundabout	S106/S278	0.4									0.4								
Total Cost SUA 2 and SUA 3 (S106/278)		0.8	0	0	0	0	0	0	0	0	0.4	0.4	0	0	0	0	0	0	0

Notes:-

NB. This schedule includes details of transportation (highways) infrastructure, health, education and other community facilities. Additional S106 may be sought in relation to provision and maintenance of open space and other aspects. The Stratford Transport Package is shown as CIL funded as while critical to the delivery of the Canal Quarter, this is also required to deal with growth elsewhere in the District. CIL may also be spent on mitigating other cumulative impacts besides those transportation items listed.

- (a) The estimates of when mitigation would be required are based on a high-level assessment of predicted highway network conditions in relation to the proposed housing trajectory.
- (b) Scheme 1 would be required with 250 500 dwellings.
- (c) Scheme 2 would be required with 500 1,000 dwellings.
- (d) Scheme 3 is also required to accommodate the effects of change in traffic movements at this junction following the delivery of the Stratford Western Relief Road (SWRR) which will exacerbate issues which are likely to occur as a result of the overall growth within the area.
- (e) Schemes 4 and 5 are intrinsically linked and should be delivered as a single scheme. Implementation would need to follow the capacity improvements provided by Schemes 1 to 3.
- (f) Scheme 6 is required to accommodate the additional vehicle demands released onto the network by Schemes 1 to 5.
- (g) Schemes 7 and 8 should be considered for early implementation due to the strategic nature of the trips that are affected by development impact coupled with the need to ensure the operation of the A46 Strategic Road Network is maintained throughout the Core Strategy period.
- (h) Scheme 9 would encourage traffic to use the A439 Warwick Road for inbound trips as an alternative to A3400 Birmingham Road where capacity is constrained.
- (i) Scheme 14 provides a contingency sum for schemes yet to be identified and is based on a rate of £1,000 per dwelling as adopted at the former Rugby Radio Station site.