

supplementary planning document 3

streetscape manual updated june 2015

local planning framework
delivering regeneration and growth



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The Southend-on-Sea Streetscape Manual - Introduction

The Manual was first adopted by the Council in February 2014, and refreshed in June 2015. This refresh includes a number of minor modifications to the Manual to reflect recent changes, including the Council's LED street lighting programme, details of which can be found in Part B: Design Detail, Section 8 Lighting and Table 6: Lighting Specification; reference to paving in Leigh Old Town; new rebound bollards; and new planters used within the Central Area.

1. When undertaking works that effect the streetscape, it is important to understand local character to ensure the end product complements it and addresses local aspirations for that area. Southend-on-Sea Borough Council has produced this Streetscape Manual to set out why specific standards are needed for the public realm, where key character areas are located within which these standards should be applied, how the streetscape should be designed and what products and specifications should be used. This Manual will be used to **recreate** the streets of Southend, to **remove** visual clutter, to **relocate** and merge functions, and to **rethink** traffic management options.

What is unique about Southend-on-Sea?

2. The Borough of Southend-on-Sea is the eastern-most extremity of the Thames Gateway, lying on the northern side of the Thames Estuary at the point where it meets the North Sea. It has a linear form lying along the coast and at roughly 13km by 4km is over three times as wide as it is deep. The Borough is bordered to the north by Rochford and by Castle Point to the west.
3. The fact that Southend sits on a shallow estuary effectively ruled out a viable existence as a shipping or fishing port (with of course the exception of Old Leigh which owes its existence to a working waterfront). However, it did lead to one of the most noted features of Southend – the longest pleasure pier in the world, designed to provide access for boats regardless of the tides. This relationship between the town and the estuary has inevitably had a significant impact on its form, both in the way that important town centre uses are effectively clustered at the edge of the urban area on the waterfront, but also in the urban design of the streets, spaces and buildings close to the water.

4. Across the Borough there are areas of differing character – the town centre and central seafront (Southend’s Central Area) being high profile and a focus for retail, commercial and leisure uses; and the Borough’s 14 Conservation Areas, which by their nature tend to have a higher retention and protection of original detailing and provide a more cohesive approach to the overall composition of streets than is seen elsewhere. These areas require special attention to ensure their character and appearance are preserved and enhanced; its transport infrastructure which while providing access also creates local severance; and the interweaving nature of the trees and greenspaces. It is vital therefore that the Streetscape Manual supports and enhances this diversity of character, while ensuring a coordinated approach.

National Planning Policy Framework (NPPF)

5. The NPPF constitutes national policy and guidance for local planning authorities and decision-takers both in drawing up plans and as a material consideration in determining applications. It has at its core a presumption in favour of sustainable development, to which Local Planning Authorities should have regard to in terms of policy development and development management decisions. Paragraph 35 of the NPPF requires plans to protect and exploit opportunities for the use of sustainable transport modes. For the detailed design and layout of developments this should include, where practical, priority being given to pedestrian and cycle movements, with access to high quality public transport facilities, the creation of safe and secure layouts which minimise conflicts between traffic and cyclists or pedestrians, avoiding street clutter and where appropriate establishing home zones, addressing the needs of people with disabilities by all modes of transport.
6. The Council, through the production of this Streetscape Manual, is providing the context within which these objectives can be met, setting the parameters within which Southend’s streets can be designed and managed to accommodate all road users in a safe, quality environment, whilst reducing the level of street clutter to make the streets more accessible and reducing maintenance costs.

Aspirations for the Borough – Local Planning Policy Context

7. The Borough’s streets and public spaces are the golden thread that runs through our communities and neighbourhoods, holding them together and helping to form a sense of place and identity. If a consistent and coordinated approach to their

design is adopted then they have the potential to lift the appearance of an area, however an uncoordinated design approach can date quickly, creating maintenance issues and having cost implications.

8. The Streetscape Manual has been designed to respond to the variation in character across the Borough, whilst providing a consistent approach that will ensure that our streets and public spaces have a coordinated, quality palette of materials and street furniture. The Council's Aim for the Borough was set out within its adopted Core Strategy (2007) and forms the basis of this Manual:

The Aim: "To secure a major refocus of function and the long term sustainability of Southend as a significant urban area which serves local people and the Thames Gateway.

To do this there is a need to release the potential of Southend's land and buildings to achieve measureable improvements in the town's economic prosperity, transportation networks, infrastructure and facilities, and the quality of life of all its citizens. This will include safeguarding and improving the standards of the town's amenities and improving the quality of the natural and built environment."

In addition to this Aim, there are 19 Strategic Objectives within the Core Strategy, which set out how this is to be achieved, the following of which are particularly pertinent in the context of the Streetscape Manual:

SO8: Secure a thriving, vibrant and attractive town centre and network of district and local centres.

SO14: Deliver high quality, well designed and attractive urban and natural environments which are safe, people friendly and distinctive, and which respect and enhance existing character and local amenity.

SO15: Secure effective and efficient sustainable development which prevents or minimises local contributions to, and the impact of, climate change, flood risk and the depletion of non-renewable resources, including the application of sustainable construction and operation in all development through the prudent use of natural resources, energy efficiency and low carbon emissions, and the maximum use of renewable and recycled resources.

SO18: Contribute to the creation of a 'Green Grid' of high quality, linked and publicly accessible open spaces and landscapes across the sub-region.

The quality of the Borough's streets and public spaces are an important component in ensuring these aims and objectives are recognised. In recent years Southend has benefitted from a number of public realm improvement schemes, including:

- **City Beach: Phase 1.** Southend is rightly known for its leisure area along the seafront, a key feature of the town for over a century, which has been the focus for recent streetscape improvements, known as 'City Beach';
- **Victoria Gateway: Phase 1.** The first phase of this scheme completed in 2011 and provides a shared space linking the Civic Quarter of Victoria Avenue and the key transport hub of Southend Victoria Station with the town centre and seafront. Further Phases of the Victoria Gateway scheme will provide opportunity to enhance the public realm in this key gateway location.
- **Pocket Places:** This project is seeking to find unused or poorly used pockets of spaces along Queensway and London Road (which lead to Victoria Gateway – Map 1) and to transform them into more welcoming, people friendly and vibrant community spaces through comprehensive community engagement and a collaborative design process.

9. The Core Strategy sets a clear design and development agenda through policies KP2 and CP4. The Development Management Development Plan Document (DM DPD) currently at proposed submission stage builds upon this policy foundation, setting out 5 specific design and townscape policies that:

- Set the overall standards for design quality, including the public realm (Policy DM1);
- Ensures the efficient use of resources, including sustainable materials, water conservation and urban greening (Policy DM2);
- Ensures that design and townscape considerations are taken into account when making efficient and effective use of land (Policy DM3);
- Sets out a strategy to ensure that tall and large buildings can be accommodated into the Borough in an acceptable manner that improves the quality of the built environment, including the public realm (Policy DM4);
- Protects and enhances the Borough's historic environment, including its townscape value (Policy DM5).

10. The emerging Southend Central Area Action Plan (SCAAP), reflects the spatial vision and objectives of the Core Strategy DPD and includes more detailed policies and proposals to deliver regeneration and growth within Southend's central area. Once adopted it will provide the framework in which to manage the built environment in the central area and ensure successful place-making.
11. All schemes for works to the public realm should have regard for the policy objectives for the Borough, and should have regard to the Council's adopted Design and Townscape Guide (SPD1), Planning Obligations: A guide to S106 & Developer Contributions (SPD2); and this Streetscape Manual (SPD3). When undertaking works in Conservation Areas, regard should be had for the relevant Conservation Area Appraisal where available. All documents can be found on the Council's website: www.southend.gov.uk/ldf

The Streetscape Manual

12. The Council considers that this Streetscape Manual is paramount to achieving a coordinated, high quality streetscape. It is presented in two parts, which should be read in conjunction:

PART A: Design Strategy – this section sets out the 'Why?' and the 'Where?', establishing the Council's objectives for the design of its streets and public spaces; why this approach has been established and identifying where the Key Character Areas are in the Borough.

PART B: Design Detail – sets out the 'What?' and the 'How?', providing a technical guide for all street furniture across the Borough, what should be specified and how it should be installed. It is divided into two sections – **Section 1 Surfacing and Signage**, and **Section 2 Street Furniture**.

There has been a varied palette of furniture and materials introduced to the Borough's streets and public spaces overtime, and in compiling this Manual the Council is seeking to consolidate these to provide a simplified approach.

Update and Review

13. This manual is intended to be a living document and will be reviewed annually to ascertain whether updates are necessary. Regular progress meetings will be held to review practices and furniture specifications to ensure that the document is in line with changes in legislation, best practice and that the materials and furniture styles specified are performing well in terms of wear and tear and offering value for money, particularly in terms of ensuring an efficient, cost effective maintenance plan.
14. The Strategic Transport and Planning Policy Group is responsible for keeping the document up to date and will be the first point of contact for changes and departures from the detailed specifications. Departures from the specified furniture will need to be justified and agreed by the Council's Head of Planning and Transport and the Portfolio Holder for Housing, Planning and Regulatory Control. Details and reasons for this must be provided on the 'Materials and Street Furniture Update Form' which can be found in **Appendix Two**.

Procurement Disclaimer

15. The manufacturer details for the materials and furniture specified within this Manual are intended as a guide for the styles chosen, but there is no requirement to purchase the items from these companies and the Council has a duty to ensure good value for money and that procurement rules are met. Items of the same design and equivalent quality from alternative manufacturers will normally be considered acceptable replacements.
16. Website addresses for the companies mentioned throughout the Manual can be found in **Appendix Three**. This list will also be updated annually as required.



the forum
southend-on-sea

Part a
design strategy

Part A: Design Strategy

Introduction

17. The quality and functionality of streets and areas of public realm can make a vast difference to the success and public perception of a place and to the quality of life for its residents. Southend-on-Sea Borough Council is committed to ensuring that all projects, both large and small, create balanced streets with minimal visual clutter, using good quality and durable materials that are sustainably sourced and easy to maintain, acknowledging the needs of all users. This Manual also provides the opportunity for existing schemes to be reviewed and the design principles contained here within applied.
18. Whilst there is a need to rationalise how the Council and others undertake new schemes and the upgrading of the existing network of streets and public realm, it is acknowledged that schemes need to strike a reasonable balance between reducing unnecessary street clutter and hazards, encouraging personal responsibility and community interaction, whilst maintaining the necessary movement of people both in and out of vehicles. Where appropriate, the mixing of modes should be encouraged, giving priority to the most vulnerable road users, promoting accessibility to all areas of the Borough in a safe, easily navigable setting.
19. *The Pocket Places project is a positive example of how the Council, in partnership with Sustrans, is engaging with the local community to realise positive benefits to the public realm at London Road and Queensway in the Central Area of Southend. For further information on Southend's Pocket Places project*
<http://pocketplacessouthendonsea.wordpress.com/about>
20. The Streetscape Manual therefore aims to raise the quality and consistency of schemes which effect the Borough's streets and public realm, creating vibrant and useable spaces. It is important to get the basics right and the following principles should be applied to all schemes in order to **Recreate** the Borough's streets:
 - **Remove visual clutter** - *think about whether the item of street furniture / signage is required or reinforces local character, or whether it is superfluous or redundant and able to be removed to reduce unnecessary clutter;*

- **Relocate and merge functions** - *maximise the effectiveness of necessary street furniture. For example, it may be possible to accommodate signage on lamp columns, or cycle stands used on build-outs in place of bollards;*
- **Rethink traffic management options** - *can traffic be managed differently to readdress the balance of the street and how people use it? Rethinking traffic management options sees a higher capital investment but can lead to the creation of Better Streets through the introduction of shared space.*

Why do we need a Streetscape Manual?

21. It is the Council's view that the streetscape plays a vital role in the way residents and visitors experience the Borough. The approach set out within this Manual will ensure that our streets and areas of public realm are well-maintained, attractive, inclusive, fit for purpose, and that this remains a priority. The Manual sets a design standard for street works across the Borough, and will ensure a consistency of style and quality of implementation. All developments effecting the streetscape in Southend, including existing schemes when reviewed, will be expected to follow the less is more principle, avoiding unnecessary clutter and merging uses where appropriate.

Assessment

22. All works that effect the town's streetscape will be expected to demonstrate compliance with the Streetscape Manual. The Council's **5 stage 'Gateway' Design Process**, which can be found in **Appendix One**, offers an adaptable template for achieving this. Departures from the Manual should be addressed to the Strategic Transport and Planning Policy team in the first instance using the **Materials and Street Furniture Update Form** in **Appendix Two**, with sign-off to be agreed by the Head of Planning and Transport and the Portfolio Holder for Housing, Planning and Regulatory Control.

Value for Money – Products and Maintenance

23. Important improvements to our streets and public realm are possible to achieve at a relatively low cost or level of investment. By implementing the standards set out within this Manual it will be possible to deliver good streets and public spaces through undertaking more efficient purchasing, making the streets easier to maintain and ensuring good value through durable design. It will be essential therefore that works are properly coordinated, in line with the standards set out

by the Manual and in agreement with the Council to ensure that the ability to maintain streets and spaces is a significant factor in the choice of design.

Who is the manual for?

24. This Manual will be the benchmark for the Council's own street works and will act as a guide for Council Officers and Members, requiring that Officers from a range of departments (including traffic and highways engineering, strategic and transport planning, design and conservation, development control, parks and streetscene) work together to ensure a coordinated approach. The Manual will also be a valuable resource for Residents, Local Businesses and the Private Sector in facilitating a common understanding of what standards are expected of Southend's streets and public realm.

Defining the 'Public Realm'

25. For the purpose of this Document the public realm is defined as all areas which are publically accessible to all including streets, paths, the seafront promenade, pocket parks, business parks and pedestrianised areas such as the High Street, public squares and plazas. These areas can be publically or privately owned. The Council parks are not included in the scope of this document and will be maintained on a separate basis.

Southend's Streetscape Objectives

26. There are 5 key objectives of the Streetscape Manual that will be central to decision making, these are:

Objective 1: Get The Basics Right

Applying the 'Remove, Relocate, Rethink' Principles to all New and Existing Schemes to Provide a Clutter-Free Environment.

27. The Council recognises that some areas of the Borough suffer from excessive street clutter – it reduces space for pedestrians, cyclists and other users, creates obstructions and is generally unattractive. The Streetscape Manual is therefore based on the approach that, for streetscape, unless its provision is mandatory by law, less is more, and provides a neutral

palette of materials to achieve consistency and clarity for designers, minimising future maintenance costs and issues. Development proposals that affect the Borough's streets or public realm will be expected to demonstrate an understanding of the area's character, identifying opportunities for removing clutter, or merging uses. This Manual can be applied to both existing schemes, to improve their quality, and to new schemes to ensure a consistent approach is adopted.

28. For existing schemes an audit of street furniture and materials should be the starting point so that opportunities to remove, relocate and rethink provision can be appraised up front, before any further works are undertaken. The Council's Stage 5 Design Process, as set out in Appendix One, can be utilised in order to ensure a 'best practice' approach is undertaken, including consultation with the local community and relevant groups (including mobility groups).

Objective 2: Creating 'Better Streets'

Making the Borough's streets and public realm safe and accessible for all, recognising the needs of vulnerable road users, encouraging walking, cycling and other sustainable modes of transport.

29. Through the implementation of this Manual the Council seeks to ensure that its streets and public places are designed to address the needs of all users to ensure ease of movement and of course, safety. To ensure that our streets are safe and inclusive places, the Manual sets the standards for creative and innovative street design that requires those planning the scheme to understand how people with different requirements will use and interpret the space, in turn enabling users to use these spaces safely themselves.
30. A key consideration for all schemes must be accessibility for all users and their differing requirements, including those with mobility or sensory impairments, older people and children. All schemes will be expected to create safe, attractive and legible streets and crossing points without generating unnecessary obstructions to movement.
31. Providing for the mobility requirements of an ageing population is a complex issue. The design of streets and public spaces must take into account the needs of a wide range of users and often involves a series of compromises. The EU funded SaMERU road safety project, now concluded, provided project partners (including Southend-on-Sea Borough Council) with the opportunity to identify the factors and make recommendations on areas that impact older road users including reduced abilities, sight, slower reaction times and the benefits to health in staying active later in life. The project

identified that particular emphasis needs to be given to consultation with older road user stakeholder groups, consideration of street layouts, crossings and facilities that provide for particular mobility needs and guidance, training and advice when new facilities are introduced.

32. The results of the SaMERU project highlight that the age group 65+ will find the following of great benefit in keeping mobile and active:
- Maintain pavements and road surfaces, especially at crossing points, to a high standard;
 - Improving the knowledge of how tactile cones and puffin crossings work – if crossings and new junctions go in then make sure that information is clear
 - Help older drivers to find alternative methods of travel when they feel they are no longer able to drive bearing in mind that this might include non-transport solutions;
 - Prioritise the safety needs and target the 75+ age group;
 - Giving due consideration in scheme design and layout to the need to accommodate wheelchairs and mobility scooters
 - Avoiding complex designs that can cause confusion to the older road user – the simpler and more consistent the design, the better.
33. The quality of the environment and how its design can promote walking and cycling will be a central element of all schemes. This includes consideration of desire lines, minimising barriers to movement, allowing space on the carriageway for cyclists and motorists and providing good levels of illumination for both vehicles and pedestrians. In conjunction with this, planning policies will also seek to ensure active frontages in commercial areas and that all public spaces and streets have high levels of passive surveillance from surrounding buildings, particularly in the Central Area.

Objective 3: Creating Sustainable and cost effective streets

Streets and spaces that are easy to manage, employing a simplified palette of high quality materials

34. The materials and street furniture designs chosen for a project will depend on the location and context of the scheme. What is suitable for the town centre or a Conservation Area is likely to be different to that of a typical residential street. Materials for each area are specified in **Part B: Design Detail**. Deviations from this are unlikely to be acceptable and any proposals for alternative materials and furniture must be fully justified and agreed in writing with the Head of Planning and Transport and the Portfolio Holder for Housing, Planning and Regulatory Control, using the Materials and Street Furniture Update Form (Appendix 2). The Council will seek to ensure that materials are locally and sustainably sourced where possible and will expect a high quality of workmanship, with due consideration given to ease of maintenance.
35. The Council is committed to adopting environmentally sound practices for its streetscape works and by limiting the range of materials and street furniture styles there is greater opportunity to **reduce** waste by **reusing** redundant materials and **recycled** products. A restricted palette of materials and furniture will also enable the Council to keep replacement items in stock and should speed up repairs of damaged items. Adopting a best practice approach to installation and detailing will ensure that new items are installed to a consistently high standard. Opportunities for energy efficiency in schemes, including LED lighting and solar signs will also be pursued. The Council is undertaking a programme of streetlight replacement works, and will be installing LED lanterns across the Borough. This will help to reduce energy consumption and energy costs, as well as reducing light pollution.
36. The longevity of the material or piece of furniture and its replacement cost will be carefully looked at in each case. The Council will encourage the use of high quality robust materials and furniture that can be easily cleaned and maintained and this will be a key consideration in the design of new schemes. Footways and cycleways will be maintained to provide even and well drained surfaces, and steps will be taken to minimise the opportunities for flyposting, graffiti and antisocial behaviour, and remove flyposting and graffiti quickly where it does occur.

Objective 4: To Improve the Street Environment for Residents, Help to Attract Visitors to the Town, and Promote the Regeneration of the Central Area.

37. Over time the use of a consistent, quality approach to street works will lead to a steady improvement of the Borough's streets, promoting regeneration and local distinctiveness, helping to encourage higher levels of visitor numbers particularly to the town centre and central seafront area. The attractiveness and success of the streetscape environment will also be dependent on the quality and use of the buildings and activities that take place in the streets and public spaces. Consequently the Manual should be read in conjunction with the relevant policies and guidance contained within documents in the Council's local planning framework available at www.southend.gov.uk/ldf. For the emerging Central Area, the Southend Central Area Action Plan (SCAAP) sets out a detailed framework to guide development in this area, including the upgrade of existing, and creation of new, public spaces, and enhancements to the public realm.

Objective 5: Enhance the Borough's Green Infrastructure

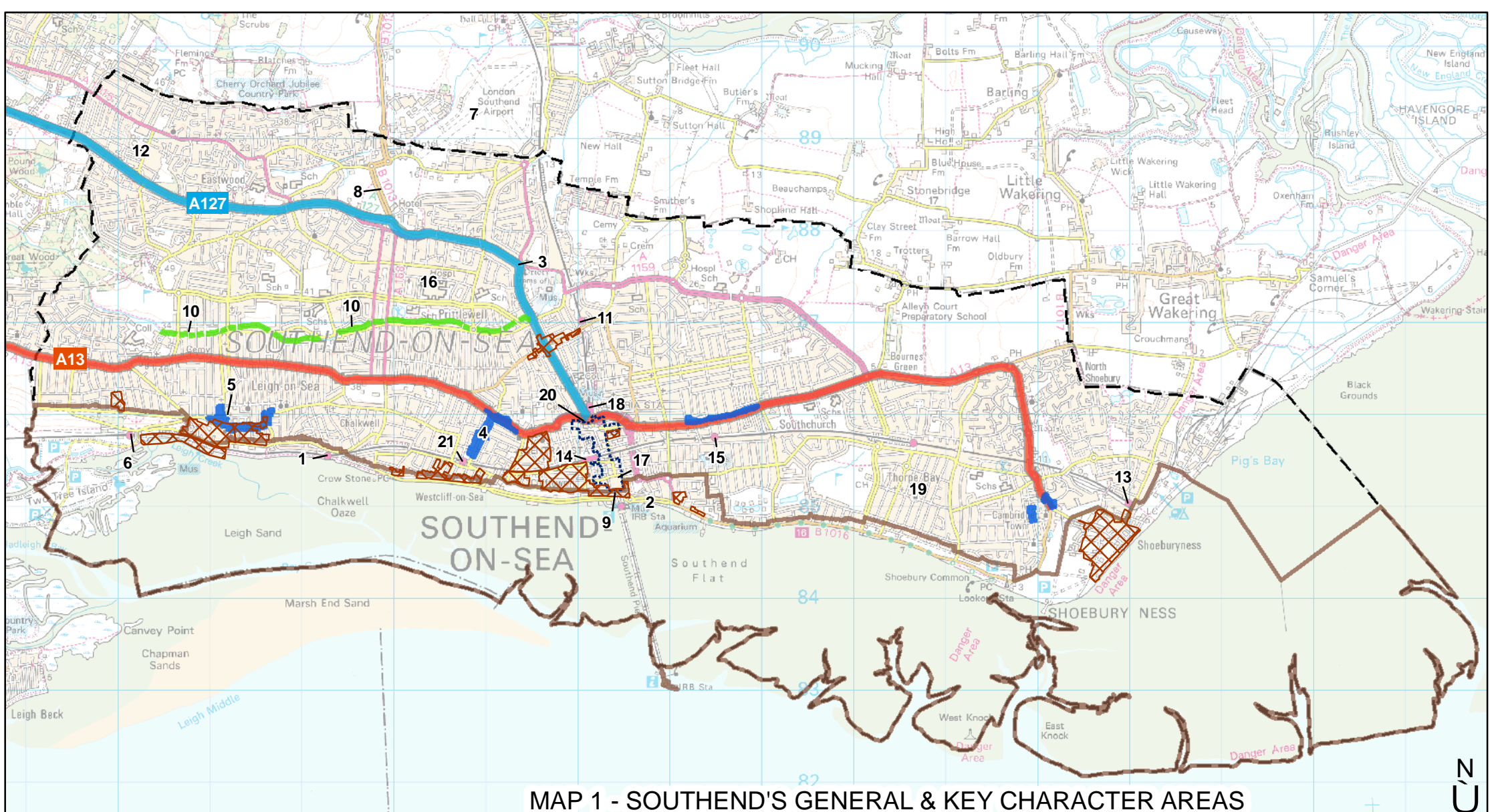
38. The Southend-on-Sea Borough Wide Character Study (2011) notes the general scarcity of tree planting and landscaping within the Central Area. The Council therefore seeks to encourage a strong provision of appropriate planting and landscaping in the Central Area to enhance the public realm through urban greening. Outside of the Central Area there are a number of other areas that suffer from a lack of green infrastructure provision, and in addition to maintaining existing trees and planting, the Council will look to introduce more street trees and planting where possible, and when funds allow, on the Borough's streets to enhance local character, encourage walking and cycling and make a valuable contribution to local biodiversity and the green grid initiative (a long term project to establish a network of open spaces and green links throughout the Borough and beyond). The size of tree planted will be dependent on the location; further details are set out within Chapter 11. Trees can also be used as a design tool to add structure and enclosure to streets and spaces and improve the local microclimate by reducing pollution and providing shade.

Where are the Borough's General and Key Character Areas?

39. The Streetscape Manual sets out a palette of materials and street furniture appropriate to general areas with lower footfall across the Borough as a whole. It is recognised however that we cannot treat the Borough as a single entity; some areas will require a different approach than others for a number of reasons, so the following Key Character Areas (see Map 1) have been identified and the choice of material/furniture varied to reflect and strengthen local distinctiveness, full details of which can be found with **Part B: Design Detail**. These categories are:

- **Town Centre streets:** a coordinated and quality palette of materials to create a strong, definitive character for this important area of the Borough will be employed. In areas of primary shopping frontage, a higher specification of materials will continued to be used and a higher level of footfall addressed, with due consideration given to the long term maintenance of the design, materials and furniture.
- **District Centres:** the Borough's District Centres of the Broadway, Leigh-on-Sea and Hamlet Court Road, Westcliff have their own unique character and each will receive an appropriate treatment to identify them as areas of local importance and to respond to the higher footfall in these locations.
- **Seafront:** The seafront is unique and as such deserves an individual approach that respects its special character, and often higher level of footfall; and
- **Southend's Historic Environment (Conservation Areas):** Streetscape work in the Borough's Conservation Areas, and those affecting the historic townscape, must consider the context of the historic environment and its heritage assets and be designed accordingly to sympathetically respond to and celebrate Southend's heritage. In these areas in particular, an 'audit' of street design furniture will be critical to informing a comprehensive understanding of character to ensure local distinctiveness is conserved and enhanced, and should be carried out in consultation with the Council's Conservation Officers. Wherever possible, the preservation of existing historic street furniture (including lamp columns) and floorscapes (including paving, granite kerbs and drainage channels) and the reinforcement of local distinctiveness should be the starting point for all schemes.

40. Of course there are some site specific schemes that have been given their own special character including City Beach and Victoria Gateway. In instances where a diversion from the standards set out by the Streetscape Manual are considered to be justified, the Council's Strategic Transport and Planning Policy team must be consulted, with final agreement being sought from the Head of Planning and Transport and the Portfolio Holder for Housing, Planning and Regulatory Control. Please complete and submit a Materials and Street Furniture update form (Appendix Two).



- | | | | |
|----------------------------|------------------------------|-------------------------------|-------------------------------|
| 1. Chalkwell Station | 8. Nestuda Way | 15. Southend East Station | Seafront/Foreshore |
| 2. City Beach | 9. Pier Hill | 16. Southend Hospital | District Centre/Shopping Area |
| 3. Cuckoo Corner | 10. Prittle Brook Greenway | 17. Southend Travel Centre | Prittle Brook Greenway |
| 4. Hamlet Court Road | 11. Prittlewell Station | 18. Southend Victoria Station | Town Centre |
| 5. Leigh Broadway | 12. Progress Road | 19. Thorpe Broadway | Conservation Area |
| 6. Leigh-on-Sea Station | 13. Shoeburyness Station | 20. Victoria Gateway | Southend Borough Boundary |
| 7. London Southend Airport | 14. Southend Central Station | 21. Westcliff Station | |



Part b
design detail

Part B: Design Detail

Introduction

41. Part B of the Manual provides the technical detail behind the design of the Boroughs streetscape, outlining the Council's preferred approach, and should be read in conjunction with Part A: Design Strategy and the principles established therein. All schemes that affect the Borough's streetscape will be expected to apply the key principles set out within Part A of the Manual: Remove / Relocate / Rethink.
42. Part B is divided into the following sections:

Section One: Surfacing and Signage contains detail on: 1. Footways; 2. Carriageways; 3. Cycleways; 4. Signage and Wayfinding;

Section Two: Street Furniture contains detail on: 5. Bus Stops and Shelters; 6. Bollards and Guardrail; 7. Cycle Parking; 8. Lighting; 9. Seating; 10. Bins; 11. Tree Protection and Planting.
43. Where appropriate, details have been provided of the types of materials or furniture that should be used in each situation. Practical information on specifications and installations have also been provided. Where known, previous manufacturer details are supplied but this is by no means exclusive and identical products from alternative manufacturers may also be acceptable, although this will need to be verified with the Council prior to ordering.

section one



Section One: Surfacing and Signage

1. Footways

44. The type and quality of footway surfacing materials and the standard of maintenance make a significant contribution to the character of an area. As well as the visual impact, poorly laid and maintained footways create an unacceptable environment and all new schemes must demonstrate a considered approach to the future maintenance of the surface. This should include: a clearly defined maintenance period, to be agreed by the Council, and full details of suppliers and products in order to ensure repairs can be easily undertaken where necessary. The Materials and Street Furniture Update Form (Appendix 2) should be used for this purpose.
45. The material chosen will depend on the location and should be agreed in accordance with the Councils Highways and Traffic Management Service¹, with higher quality surfacing materials being prioritised for high footfall locations including the town centre, primary shopping streets, and the historically important Conservation Areas. Southend High Street offers potential for high quality, comprehensive resurfacing works that would see the palette of materials simplified to enrich the quality of the street help define distinct episodes along its length, and assist with maintenance, supporting the approach set out in the Southend Central Area Action Plan (SCAAP).
46. Nonetheless, in all cases footways should be simple in design and sympathetic to the context of the surrounding buildings and other streetscape elements. Minimising the use of different footway materials is easier to maintain and creates a cohesive appearance that does not try to compete with the surrounding architecture. Where embellishments to the footway design are proposed, such as studs, they should be for a specific reason, e.g. to highlight a landmark building, route or to define a boundary.

¹ Where ordinary flag paving is used in the Borough these are normally 'Imperial' paving slabs, produced by the Alexandra Stone Company, available in 3 sizes as outlined within Table 1 below. For purposes of repair, Imperial paving slabs should be used where funds allow, however the Council is proposing to phase out their use and for comprehensive resurfacing works 'metric' paving slabs should be used in cases where paving is deemed appropriate and necessary – consideration should also be given to the alternative surface materials, such as bituminous surfacing, as appropriate.

47. For all paving schemes the ease of future maintenance, service provision and reinstatement must be considered at the design stage so that future works can be easily undertaken without destroying its aesthetics. Patches can look unsightly and destroy the overall look of the scheme. Materials need to be robust, durable and have long term availability so that they can be easily replaced if necessary without destroying the look of the scheme. Stockpiling of specialist paving materials is expensive and not normally undertaken and comprehensive records must be compiled for each scheme to provide specifications of all the materials used including: manufacturer, product type, colour and dimensions.

Footways and Paving in Conservation Areas

48. There are 14 Conservation Areas in the Borough and at present the quality of the paving in these areas is variable. They include the few occurrences of Yorkstone paving which can be found in Clifftown Conservation Area but there are also many bituminous surfaces. The Council is committed to preserving and enhancing the character of the conservation areas but it is recognised that Yorkstone may not always be a viable option, however, changing bituminous surfaces to 'Metric' paving slabs will be considered as a medium to long term objective in these areas as funds allow. Where historic paving surfaces remain they should be retained and repaired and used to inform regeneration schemes in the rest of the Conservation Area. In these cases, where comprehensive resurfacing is not proposed, it may be necessary to use 'Imperial' paving slabs. *For further information on paving types and locations see Table 1 below.*

Tactile Paving

49. Blister paving is commonly found across the Borough at controlled (red) and uncontrolled (buff) crossings, with corduroy paving at the top/bottom of steps and on cycleways and should be laid out carefully to avoid unnecessary trip hazards and only used where essential. The use of these colours in the footways is generally recommended in order to provide a strong contrast in colour and tone from the surrounding footway, particularly for partially sighted people. Grey tactile paving has been introduced to some of the Borough's high profile public realm schemes, and the use of alternative colours (for example grey) will be considered where appropriate and if a suitable contrast from the existing footway can be safely accommodated, particularly in the higher profile areas. Within the Borough's Conservation Areas and in the vicinity of Listed Buildings, some relaxation of colour requirements is acceptable, with grey tactile paving being promoted in these locations where its provision is necessary (although it will be important to give careful thought to the design of crossing

points in order to avoid tactile surfaces forming awkward shapes and patterns that can detract from the character and appearance of historic streets). Thought could also be given to the materials used to produce the tactile paving, in line with British Standards, as higher quality surface materials such as Yorkstone, are now available. *For further guidance please refer to DfT Guidance on the use of tactile paving surfaces.*

Changes in Surface Materials

50. Where two different surface materials abut each other careful consideration should be given to the joining detail. Generally these changes should occur at a logical position in the streetscene such as a party wall, a building return, a change in the direction of the street, a change in footway depth or after a crossing with tactile paving. Demarking the change with detail in an alternative colour or shape will be considered in key character areas.

Kerbs

51. The appropriate height of the kerb will be determined on a site by site basis to suit the locality and the needs of all road users, in general 180mm kerb face is specified for bus stops/platforms, 125mm general kerb upstands, 0 – 6mm upstand on flush kerbs for mobility purposes. To assist the mobility impaired and parents with pushchairs dropped kerbs will be provided at all crossing points and raised kerbs will be provided at bus stops which are used by low floor buses. Lower kerb upstands may also be considered for areas where specific or bespoke public realm improvement works are proposed.
52. A large number of original granite kerbs still survive in the Borough and they make a positive contribution to local character. Every effort should be made to retain these but where this is not possible they should be reclaimed for use elsewhere in the Borough. In Conservation Areas in particular the Council will look to reinstate lost granite kerbs as they make a significant contribution to the historic character of these streets, where not available Conservation Kerbs may be an appropriate alternative, as seen at Thames Drive, although details will need to be agreed with the Council's Highways Engineers.

Allocation of Space on the Footway

53. The appropriate width of footway will depend on location and current DfT guidance should be adhered to. Areas with high pedestrian flow, such as shopping streets and the seafront promenade, will need wider footways than quiet residential streets. There are other 'traffic attractors', such as schools, bus stops, railway stations, leisure venues and public buildings that should be provided with wider footways where feasible.
54. In all areas street furniture should be positioned so that it causes the least obstruction, which in most cases will be against the kerb line leaving a clear channel for pedestrians on the inside, against the building line. In busy areas a minimum of 2m clear footway should be maintained for pedestrians but in quieter locations 1.8m clearway maybe considered sufficient, although this would be the minimum level. The appropriate width will be determined on a site by site basis, with the Council's Highways Engineers.
55. In shopping areas there may be a desire for alfresco dining areas or forecourt displays on the footway outside the retail unit. These will only be considered acceptable where there is sufficient space so that they do not obstruct pedestrian flow and must be removed at closing time. *For further details on pavement cafe seating see the Design and Townscape Guide and the Councils Tables and Chairs on the Highway Policy Guidance Note both of which are available at www.southend.gov.uk*

Barriers, Guardrail and Crossing Points

56. Barriers to the movement of people such as guardrail should only be installed where a risk assessment deems them to be essential as it is recognised that the use of guardrail can create an unattractive and confined environment and lead to increased vehicle speeds. When undertaking an audit of its streets, the Council will look to remove unnecessary guardrail in accordance with guidance provided by Local Transport Note (LTN 2/09). Where guardrail or barriers are essential and are to be installed on a gradient, the panels must be raked to suit falls, although in some case it may be acceptable to 'step' the panels.

57. Existing and potential desire lines will be considered as part of any new highways scheme and every effort made to accommodate them into the layout, and controlled and uncontrolled crossings installed as needed. All schemes should consider straight rather than staggered crossings which are more convenient and can negate the need for a central enclosed island, which adds to street clutter.

Sub Base – Specification

58. Experience within the Borough has shown that cracking in the surface course of bituminous surfaced footways can occur at regular intervals where a cement bound materials sub base has been used. Use of Type 1 unbound material as a sub base has been shown to reduce this problem. This is not normally an issue however where slabs or blocks are laid on a sand bedding course as a surface material.

Underground Services and Inspection Covers

59. Underground services are a common occurrence in carriageways and footways and it is essential that they are accommodated in a practical way whilst ensuring their visual impact on the streetscene is minimised. It is therefore crucial that these are considered at an early stage in the scheme design. Where access to services is likely to occur, consideration should be given to installing surface materials that are easily matched and re-laid so that unsightly patching can be avoided. Where additional services are likely to be required in the future, e.g. for CCTV cabling, the installation of ducting should be considered so that large areas of pavement will not need to be dug up again.
60. Where utility company assets are affected by a scheme, any changes must be agreed with the relevant utility company in accordance with the New Road and Streets Work Act 1991 (NRSWA) Code of Practice.
61. In paved areas inspection covers should be aligned to match the direction of the paving slabs to minimise conflicts with the bond. When areas are repaved, inspection covers that conflict with the bond pattern will be realigned wherever possible.

Implementation (Edges and Bonding)

62. For areas of Block Paving 'pencil' edged slabs should be used to allow for easy maintenance. In areas of Modular Paving 'chamfered' edge slabs should be used to avoid the spalling of edges. In most cases the slabs will be laid as stretcher bond at right angles to the direction of travel. Whole or half slabs should be laid adjacent to the kerb to allow for ease of replacement should they become damaged. Stacking bond emphasises imperfections in the alignment and should not normally be used.
63. Particular care should be taken when paving around obstacles such as trees, street furniture and signs to ensure that the result is simple and well executed. Where appropriate smaller size blocks will be used to pave around large tree trunks which will allow for slight levels changes and a more flexible area - this has been used effectively in Clifftown Conservation Area. Rows of granite setts can also be used as a sympathetic treatment around trees, as shown at Thames Drive.
64. In all cases a high standard of workmanship with regard to cutting and laying of the slabs is essential to ensure that there are no trip hazards and unnecessary future maintenance problems such as ponding and this will be closely monitored for each scheme. The same high standards will also apply to the repair and maintenance of existing footways and to the checking of work carried out by the utility companies.

Footway Protection

65. Where there is likely to be vehicle over run onto the footway, heavy duty slabs will be considered to minimise the likelihood of damage. Smaller slab sizes also reduce the risk of breakage and these will be considered for vulnerable areas. In all schemes the risk of vehicles encroaching onto the footway should be assessed and where it is considered to be likely, remedial measures should be designed into the scheme. In addition or as an alternative to strengthened paving this may also include higher kerbs or the use of street furniture such as trees and bollards as a deterrent, and options for merging uses should be considered, with bollards only being used as a last resort.

SuDS and Drainage

66. For all development with drainage implications, Sustainable Drainage (SuDS) techniques will be required within the drainage strategy to take the pressure off the existing sewer system. SuDS should be considered wherever possible for highway drainage and conventional piped systems installed only when SuDS are not practicable.
67. Development approval will be subject to the emerging SuDs Approval Body (SAB) set up according to the Floods and Water Management Act 2010. Southend Borough Council as the Lead Local Flood Authority will act as the SAB.
68. There are various opportunities for controlling ground water run off through incorporating SuDS techniques into a scheme including, in combination:
 - Filter drains/strips and swales
 - Permeable surfaces
 - Infiltration devices
 - Basin and ponds
 - Attenuation, storage and flow restriction
69. These can become features of the scheme. An early initial assessment of the site will be required to enable the site specific requirements for the drainage system to be established and used to inform the wider scheme design.
70. Typically, within conventional systems, drainage channels are located in the carriageway alongside the kerb to carry runoff from the carriageway and footway to the sewer system. These types of channels will normally be constructed in the same material as the carriageway except in some of the older areas where traditional granite sett drainage channels remain. These make a valuable contribution to local character and will be retained especially where they occur in the Conservation Areas.
71. Wherever possible the runoff from the footways will drain directly into these channels but in some cases additional footway drainage may be required. These have traditionally been in the form of metal slot drains but where additional drainage is required in new schemes dish type channels in the same material as the paving, although not always as effective, may be

considered if space is limited. For large areas of paving, such as Southend High Street, a custom designed drainage system within the footway will be required. *For further information see the Design and Townscape Guide SPD (2009)*

Forecourts

72. Unless part of a planning application, it is not possible for the Council to control the type of footway materials used in private forecourts but it is desirable that in paved areas the materials used match that of the adjacent public footway to provide an uninterrupted surface between the building line and the kerb to maintain a coherent appearance and to minimise the risk of trip hazards.
73. Where Council public realm schemes are proposed, this work may be able to be undertaken by the Council's Contractor as part of an enhancement scheme in consultation with Freeholders. The options are:
 - No change – the freeholder may wish for their forecourt to remain as it is.
 - Resurface as part of the scheme - with the agreement of the freeholder this has been undertaken 'at cost' as an incentive in previous schemes.
 - Dedicate the forecourt – the freeholder can dedicate the private forecourt to the Council whereby the Council is responsible thereafter and can repave the forecourt in a surface material to match the scheme.
74. In all cases, it is essential that consultation is undertaken with the owner/freeholder of the business and that this information along with the agreed treatment of the forecourt is obtained in writing well in advance of implementation.
75. Many properties in the Borough have basements which extend under the footway. The presence of basements needs to be established before any construction works take place for health and safety reasons and so that appropriate measures can be taken during construction.
76. **Demarcation:** the demarcation of private forecourts will require consultation with business owners. There are some good examples of where demarcation has been successfully achieved in the Borough. Including the paving of the forecourt in the same material as the public footway but with a different bond to provide a subtle demarcation of ownership

boundaries. This maintains a consistent appearance but allows the extent of the forecourt to be identified and used for displays and seating areas. Other options such as studs may also be acceptable. Where forecourts are irregular and a lot of cutting is required, block paving in the same materials as the slabs used for the rest of the paving could be used. This approach has been used successfully in the Borough, including the street works at West Road.

77. **Conservation Areas and historic forecourts:** In a few instances, however, the original historic forecourt tiles have been retained and where they are in good condition, these areas are considered to make a positive contribution to the streetscene and should be maintained, especially within Conservation Areas.

'A' Boards


78. A-boards add clutter to the highway, can cause trip hazards, and will be discouraged. Where they are accepted in principle by the Council, they must be sensitively positioned close to the shopfront so as not to obstruct pedestrian flow. In all cases a minimum of 2m clear footway must be maintained.



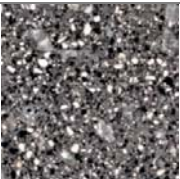

Further information on the Council's Advertising Board Policy can be found on www.southend.gov.uk


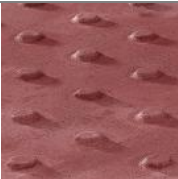


Product Specifications


79. The principles set out in Part A are taken forward within Table 1, below, where they have been applied to the palette of materials selected for footways in the Borough. Table 1 provides details of a simplified palette of materials for the Borough's footways, and includes additional information on existing materials to guide repairs. As highlighted within Part A, materials have been specified for: general areas, town centre streets, district centres, seafront, and conservation areas. It should be noted that HD 30/08 provides detailed guidance on dealing with Tarmac if it is found to be present, and should be applied in these cases.

Table 1: Footway Material Specification

Location	Image	Style/ Potential Manufacturers	Specification	Comments
General Areas		<p>For repairs/replacement slabs, where funds allow:</p> <p>‘Imperial’ Paving Slab, manufactured by The Alexandra Stone Company (part of the Castacrete Group)</p> <p>‘Metric’ slabs to be used for comprehensive resurfacing works.</p> <p>All resurfacing and repair works are to be agreed with the Council’s Highways and Traffic Management Service and a sensitive approach taken to the surfacing in historic areas – for details please refer to ‘Conservation Areas’ product specifications within this Table’.</p> <p>Or</p>	<p>Colour: Natural</p> <p>Available sizes, dependent on footpath width and bond:</p> <p>3’ x 2’ x 2” depth</p> <p>2’6” x 2’ x 2” depth</p> <p>2’ x 2’ x 2” depth</p> <p>With 20-50mm lime mortar</p> <p>To BSEN 1339 standards</p>	<p>Cement Bound Granular Material Category B is the preferred sub-base.</p> <p>Or, Type 1 (flexible) as an alternative option for sub-base where trees are nearby</p> <p>Specification dependent on scheme.</p>

	 	Bituminous surfacing	Black or red (where red macadam is already in situ, repairs should be made using red macadam to match existing)	Red macadam is used in a number of locations in the Borough including Marine Parade, Grange Road and Hadleigh Road, Leigh on Sea.
Conservation Areas	 Or  Or	Marshall's Conservation slabs Imperial Paving Slab	Smooth Ground Concrete Paving Colour: Charcoal 600 x 600mm Colour: Natural 400 x variable lengths	Reclaim and reuse existing granite kerbs where available. See site specific schemes for Pier Hill (Cliff Town Conservation Area), Leigh Broadway (Leigh Cliff Conservation Area), and Leigh Old Town Conservation Area.

		Red bituminous surfacing		Used as an alternative surface material to the footways in Eastern Esplanade Conservation Area; Clifftown Conservation (including future resurfacing works at Nelson Street (east side); Milton Conservation Area; The Leas Conservation Area; and Leigh Cliff Conservation Area. Repairs should be like-for-like. Paving slabs will continue to be the preferred option for comprehensive resurfacing works.
Tactile Paving	  	Blister paving	450 x 450 x 70mm or 400 x 400 x 70mm; dependent on location	Standard red for controlled crossings; Standard buff for uncontrolled crossings; Grey for Conservation Areas and key regeneration schemes

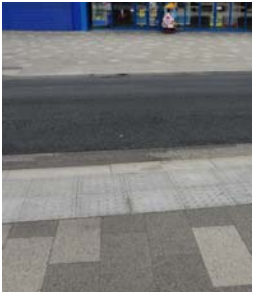


Corduroy Paving		Red / Buff / Natural	450 x 450 x 50mm or 400 x 400 x 50mm; dependent on location	<p>For use at top and bottom of steps; level crossings; intersections of shared cycle/pedestrian routes. Installed at 90 degrees and 400mm away from the hazard.</p> <p>Where necessary and appropriate, grey should be used in high profile areas and conservation areas.</p>
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Site Specific Schemes - Paving Specification for Maintenance Works




Scheme Name: City Beach
Supplier: CED Ltd



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Image	Product	Specification
	<p>Blister tactile paving, sawn all sides, sandblasted top – silver grey granite (S816-300-OB), red granite (S816-300-JJ)</p>	
	<p>Radius corduroy ribbed tactile paving, sawn all sides, sandblasted top – silver grey granite (S816-300-OB)</p>	<p>400mm wide x 638, 502, 389, 486, 369 x 401mm long (70mm thick)</p>
	<p>Setts, sawn all sides, flamed top – Silver grey granite (S816-300-OB)</p>	<p>90mm³</p>

  	<p>Trim paving, sawn all sides, flamed top – silver grey granite (S816-300-OB)</p> <p>Treads, sawn all sides, flamed top and one long side – silver grey granite (S816-300-OB)</p> <p>Special tread corner unit, sawn all sides, flamed top and front – silver grey granite (S816-300-OB)</p>	<p>200 x 50mm x tapering lengths of 616-600mm</p> <p>Straight: 400 x 200 x 900mm Radius: 400 x 200 x RL</p> <p>1313 x 200 x 1497mm 1220 x 200 x 1404mm 1217 x 200 x 1401mm 466 x 200 x 466mm 400 x 200 x 764mm</p>
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	<p><i>Grey/Pink Granite</i> (S816-300-FD)</p>	<p>300 x 600mm, 300 x 450mm, 300 x 600mm, 600 x 600mm, 600 x 450mm</p>
	<p><i>Mid Grey Granite</i> (coarse grain) (S816-300-EDC):</p>	<p>300 x 600mm, 300 x 450mm, 300 x 200mm, 600 x 600mm, 600 x 450mm</p>
	<p><i>Grey Black Pink Granite</i> (S816-300-AG):</p>	<p>300 x 600mm, 300 x 450mm, 600 x 600mm, 600 x 450mm</p>






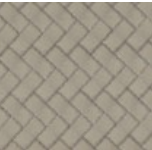
Scheme Name: Victoria Gateway (Phase 1), Southend
Supplier: CED Ltd








Local Planning Framework
Southend-on-Sea Streetscape Manual

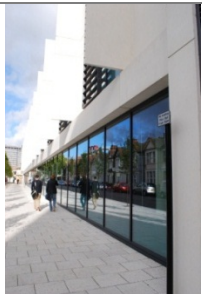


	<p>Silver grey granite kerb, bush hammered top, sawn all sides (S816-300-OB)</p> <p>or</p> <p>Silver grey granite kerb, bush hammered top and front face (S816-300-OB)</p> <p>Edging, sawn all sides, bush hammered top – Silver grey granite (S816-300-OC)</p>	<p>300 x 150 x 800-900mm as required (almost indistinguishable from S816-330-OC, maintenance could be done with either)</p> <p>300 x 200 x 800-900mm as required (S816-300-OC also available in 200 x 300 x 800-1200mm as required)</p> <p>400 x 600 x 50mm</p>
	<p>Radial paving, sawn all sides, flame textured top – Pink Red Brown Granite (S813-300-TD) – 50mm thick</p>	<p>400 x 800mm, 400 x 1200mm, 700 x 2000mm, 700 x 1500mm, 700 x 1200mm</p>
	<p>Guidance strip paving, sawn all sides, sandblasted top, ribbed finish – pink/grey granite (S816-300-FC), silver/grey granite (S816-300-GE), brown/grey granite (S816-300-EH)</p>	<p>400 x 400 x 50mm</p>

	<p>Straight paving, sawn all sides, flame textured top – Pink Red Brown Granite (S813-300-TD)</p>	<p>400 x 800mm, 400 x 1200mm, 400 x 400mm, 400 x 590mm (all 50mm thick)</p>
	<p>Blister tactile paving, sawn all sides, sandblasted top:</p> <p><i>Red granite (S816-300-JJ), pink grey granite (S816-300-FC)</i> <i>Silver Grey granite (S813-300-GE), Brown Grey Granite (S813-300-EH).</i></p>	<p>400 x 400mm, 400 x 650mm (all 50mm thick)</p> <p>400 x 400mm (all 50mm thick)</p> <p>Corduroy ribbed tactile paving, sawn all sides, sandblasted top – silver grey granite (S816-300-OC), 400mm x 400mm (50mm thick) can also be specified.</p>

Site Specific Schemes – Other Site Specific Schemes				
Location	Image	Style/ Potential Manufacturers	Specification	Comments
A13		Charcon Appalachian paving – Grey	400mm x 400mm x 65mm with square edge	
Chalkwell Station		Marshalls Conservation slabs	450 x 450mm x 70mm thick; Silver grey textured finish	
Cuckoo Corner		Charcon Academy Flag Paving Slabs	450mm x 450mm x 50mm depth	
District Centres: Hamlet Court Road		Charcon Appalachian Paving – Black Fleck		General Paving for large areas Used on the south island of Hamlet Court Road
		Charcon Moordale Paving – Grey , textured; to central reservation		
		Marshalls Keyblock	200 x 100 x 60mm Natural (Grey)	General Paving for smaller areas and corners.


	  	<p>Prismo Imprint, tegula pattern, oxide red</p> <p>Prismo Imprint, Granite Sett pattern, grey</p> <p>Charcon Appalachian, Silver Grey, Ground Finish</p>	400mm x 400mm x 65mm	Raised tables and crossings
District Centre: Leigh Broadway	 	<p>Charcon Appalachian Paving - Grey</p> <p>Hadley Chamfered Clay paviors - Red</p>	<p>Ground, chamfered edge 400 x 400 x 65mm</p> <p>210 x 10 x 50mm</p>	Used for Raised tables





Elmer Approach (Town Centre side street)		Marshall's Flag paving with chamfered edge – Natural	400 x 400 x 65mm	CED Ltd
		Marshall's Keyblok, chamfered edge – Natural (Grey)	60mm	
		Granite flat squared edge kerb'	300mm x 150mm	
Elmer Square: The Forum		Charon Andover Washed – silver grey, herringbone		To the public space in front of The Forum.
		Charon Andover Washed - silver grey, staggered		To public space in front of The Forum, Elmer Approach, Cycle Park.


	 	<p>Conservation paving slabs - silver grey, staggered</p> <p>Vianova anthracite charcoal</p>		<p>Elmer Avenue, Elmer Approach, Farringdon Service Road</p> <p>To taxi pick up / drop off and loading bays</p>
Leigh Old Town Conservation Area		Tumbled granite setts	Mix of grey/blue. Repairs should be like for like. Setts should be jointed with rapid setting flowable grout. Joints to be 10-16mm width, bedded on 35-50mm bedding mortar.	High Street (east end and at southern entrance). Tarmac or similar should not be used for patch repairs. Ensure each course uses the same width setts for evenness of joints.

		Marshall's Tegula block paving 'Traditional'	120 x 160mm, 160 x 160mm, 240mm x 160mm in a random coursed laying pattern, with three rows laid horizontally to edge.	To Victoria Wharf car park and to parking bay to the north side of the High Street, opposite The Boatyard and The Smack.
		Marshall's Keyblock concrete setts	120 x 160cm, grey.	To pedestrian footways where space allows, alternative approach is for use of hot rolled asphalt with chippings. Also found on the approach to Alley Dock.
London Road / West Road		Charcon Appalachian Paving – Grey	400mm x 400mm x 65mm	Paving outside Palace Theatre, shops / businesses on London Road / West Road, Westcliff.
		Marshall Keyblock – Natural Grey	200mm x 100mm x 60mm	For smaller, decorative areas of paving, some examples outside shops.

Pier Hill		Marshall's Conservation Slabs – Silver Grey Textured	600 x 600 x 63mm thick	Used at landings on the circular staircase Road edge Shrub edge Path edge Textured paving for staircase landing
		Marshall's Conservation Setts – Silver Grey	100 x 100 x 100mm	
		Marshall's Mistral Setts – Silver Grey	120 x 160 x 60mm	
		Marshall's Conservation Kerbs – Silver Grey	145 x 255 x 915m 63 x 150 x 915mm 145 x 145 x 915mm	
		Marshall's La Linia Grande paving slab – Indian Granite	Size to suit	

Queens Approach / Farringdon Service Road		Charcon Andover washed – Silver Grey with Anthracite Charcoal soldier course	Staggered	With conservation kerb 205mm x 255mm – grade ST1 concrete
		Granite setts	150mm x 150mm	To speed table
Prittle Brook Greenway		Marshalls Tegula - Harvest	65mm thick	With Fibredec surface dressing
Town Centre: High Street		Pink Grey granite, flame textured top	450 x 450 x 70mm	Used in central section of the High Street. These materials are specified for repairs works only, where funds allow, in agreement with the Council's Highways and Traffic Management Service, and any future comprehensive resurfacing works should
		Charcon 'EcoPave' natural aggregate concrete paving	Grey/black fleck textured finish, contrasting accent paving and banding 450 x 450 x 70mm	

Town Centre: High Street (Continued)				treat the High Street as a whole, providing a simplified palette of materials to complement the adjoining buildings.
		Marshall's Keyblock concrete block paving	200 x 100 x 60mm red	Used on edges of High Street adjacent to shops
		Sunset Sandstone setts	100 x 200 x 60-70mm	Used for feature paving only
		Yellow Granite setts with fine picked tops	100 x 100 x 100mm	Used for feature paving only
		Black Basalt setts	100 x 100 x 100mm	

Town Centre: Side Streets		Footpaths: Marshalls Conservation slabs	Smooth Ground Concrete Paving Colour: Silver Grey 600 x 600mm	In situ at Clifftown Road, Southend
		Vehicular crossings + tables: Charcon Vianova block paving, anthracite charcoal	600 x 200 x 80mm	Contemporary polished block made of basalt and granite aggregates.

2. Carriageways

Materials

80. Stone Mastic Asphalt (SMA) is the default material used for carriageways in the Borough. In general, a 14mm surface course will be used for principle carriageways, with a 10mm surface course, and occasionally a 6mm surface course, in other areas. The thickness of the surface course will be dependent on the category of carriageway and will be judged on a locational basis by the Council.
81. In the Central Area, the surface course that is currently being used is 30% 14mm granite hot rolled asphalt with 20mm nominal size granite chippings with a clear binder. Where hot rolled asphalt surface courses have been used elsewhere in the Borough they are being changed to SMA.
82. For all carriageways, due consideration should be given to a winter service plan and options for gritting.

Rethinking Traffic Calming

83. The 'Rethink' approach outlined in **Part A: Design Strategy** should be applied to traffic calming in all schemes. Think about what is necessary and identify whether uses can be merged. The primary focus for traffic calming will be to slow the speed of traffic and reduce accidents but it can also be an opportunity to enhance the pedestrian and cycling environment. A number of traffic calming techniques have already been employed across the Borough including shared surfaces, raised tables, junction tightening, 20mph zones, road humps, and speed cushions. The appropriate measure for each new scheme will be decided on a site by site basis, but opportunities for merging uses such as signage, lighting columns and cycle storage on tightened junctions or build outs are encouraged. These options are explored in more detail below.

Creating 'Better Streets' and Addressing the Needs of Users

84. It may be appropriate for some high profile environmental enhancement schemes to consider the use of higher quality materials in the carriageway to signify the importance of the location, to help reduce traffic speeds and prioritise non-motorised user movement. In areas such as these it is essential that the carriageway is distinctly different to other streets, signalling to vehicles that pedestrians also have a right to use the space and that they need to slow down.
85. By creating a more pedestrian friendly environment, it is intended that motorists will be encouraged to drive slower, exerting greater care, allowing other users to enjoy greater safety, enhanced accessibility, and more flexibility in their choice of routes. The needs of all users (particularly blind and partially sighted people, people with disabilities, older people and children) will be paramount to the delivery of Better Streets, and it is critical that this is addressed within the design and streetscene audit process. It is equally important that all schemes of this nature understand that how people use a space will be influenced by their own abilities and how they see or interpret the space, and care must be taken to ensure that the ambiguity introduced for motorists is not extended to pedestrians. There are some relatively simple techniques that can be employed to ensure vulnerable users can access the space with confidence, including: the provision of wider footways, using lighting, tree planting or even street furniture to visually break up the carriageway for drivers to encourage caution, whilst identifying it as a pedestrian friendly area.
86. The principle can also be appropriate on residential streets, where it can offer greater flexibility in design terms and act as a traffic calming measure, and can include both newly created streets and regeneration of existing streets. The 'Home Zone' concept, where people and vehicles shared the road space, is addressed below:

Homes Zones

87. The principle of shared space can also be applied to residential areas. Home Zones are streets where people and vehicles share the road space equally. Home Zones are designed to look different from conventional streets and include an official Home Zone sign at their entrance, allowing motorists to acknowledge that they should reduce their speed and give informal priority to other road users.

88. It should be noted that, whilst welcomed in principle in the appropriate locations, Home Zones may not be adopted by the Council. The suitability of a road for a Home Zone will be determined therefore on a site by site basis. In all cases the surface materials chosen should complement the surrounding buildings and will be agreed by the Council. For residential streets, block pavers and resin bound gravel should be considered, as appropriate to the character of the area.

Parking Areas

89. Alternative surfacing materials can also be used effectively to distinguish parking areas from the carriageway and therefore remove the need for white lining and other visual clutter. This has been used effectively in Shoebury Garrison Conservation Area and City Beach and should be considered for areas where the visual impact of the scheme is especially sensitive.

Traffic Calming Measures

Raised Tables and Buildouts

90. Along key commercial streets where pedestrian volumes are high, raised tables at junctions have proved particularly effective in slowing vehicles and changing the priority in favour of the pedestrian. The provision of raised tables will be judged on a case by case basis by the Council, and their appropriateness will be dependent on site specific issues. They also negate the need for dropped crossings and assist the less mobile and pushchair users. With careful detailing and material choice raised tables can become a positive aspect of the streetscene and should be considered for both controlled and uncontrolled crossing points. In addition to slowing the traffic and negating the need for dropped kerbs, they also afford the crossing greater visibility, encouraging drivers to slow down sooner. In high profile areas granite setts are suggested, with small textured blocks for district centres, and natural materials of keyblock in muted tones for Conservation Areas.
91. Buildouts are used to narrow the carriageway and create 'pinch points' so that traffic slows down. They also give the more vulnerable users a better view of the approaching traffic by enabling them to look outside parked cars. In some instances they can even be used to create chicanes which can further reduce speeds. In all cases buildouts should look to form a

seamless join with the existing pavement. Where some sort of additional vertical restraint is required, consideration should be given to planting a tree, or installing a planter or small number of cycle stands on the buildout rather than a bollard. If there is opportunity to merge street furniture then this should be taken.

Road Humps and Speed Cushions

92. Road humps and speed cushions are more traditional traffic calming measures and while they can be effective in reducing vehicle speeds their use is discouraged, in favour of more intelligent solutions, such as those outlined above.

Traffic Calming in Conservation Areas

93. All traffic calming schemes must aim to minimise the need for road markings and street furniture such as bollards and signage. This is particularly important in Conservation Areas where traffic calming and associated signage can have a detrimental effect on the historic environment. In these areas the choice of materials, the detailing and the affect on the historical road layout and kerblines are particularly important. This impact must be considered at the design stage and should involve discussion with the Council's Conservation Officer. *Further guidance on street designs in historic areas can be found in English Heritage's Streets for All - East of England (2005)*

Road Markings and Signs

94. Road marking and signs can be essential for highway safety and the Council has a duty to provide a safe and legible highway network. Over provision of signs and road markings can have a detrimental impact on the quality of the environment however, and can contribute to an information overload for drivers, potentially diluting important messages. In line with DfT's Traffic Advisory Leaflet 01/13 'Reducing Sign Clutter', the Council will seek to ensure that the impact of traffic signs on the environment is minimised through an on-going audit of traffic signs, traffic signals and road markings to help to better manage its assets and to determine whether existing signs are legally required or necessary for way-finding or hazard avoidance before new signs are introduced. Where required, existing posts should be utilised where possible and opportunities for merging uses should be taken, for example attaching signs to lampposts rather than specifying a new post.

95. All signage requirements should be agreed with the Council's Parking, Traffic Management and Road Safety Service prior to any installation.
96. When required Schemes in Conservation Areas will need to have particular regard for the detrimental impact signs and road marking can have on the historic environment. All markings and signs in these areas should be minimal in both size and number and, where necessary, yellow lines will be in 50mm wide in primrose. Within Conservation Areas all signs deemed necessary must be on black poles, and have black backs, clamps and brackets, and the **Remove, Relocate, Rethink** principle applied.

Permanent Vehicular Crossings (PVX's) and Dropped Kerbs

97. The construction of permanent vehicular crossovers (PVX's) and dropped kerbs for existing buildings can only be carried out with prior approval from the Council who will monitor the works during construction and at completion, whereupon a completion certificate will be issued to all works completed to a satisfactory standard. An application for the installation of a new PVX will therefore need to be made to the Council in accordance with its policies on PVX's.

Please refer to the Council's website for further guidance and for details of how to apply:

<http://www.southend.gov.uk/vehiclecrossings>

98. In some of the Boroughs older streets and Conservation Areas the existing PVX's are constructed of blue tessellated clay paviours (blue stable bricks). These are generally more attractive than concrete crossovers and should be retained as they make a positive contribution to the streetscene and often identify historic access ways. Blue tessellated clay paviours can no longer be sourced and as such it may be necessary to reconstruct such PVX's using an alternative material appropriate for the area, to be agreed with the Council's Conservation Officers in accordance with the Highways and Traffic Management Service.
99. It should be noted that forecourt parking areas and crossovers will only be considered acceptable where there is sufficient space to park a medium sized car on the forecourt and provide space for some sort of soft landscaping to soften the impact; with a bituminous material generally used when outside of a Conservation Area. Forecourts that are entirely hard surfaced are detrimental to the streetscene and will be discouraged.

100. From 01 October 2008 the permitted development rights that allow householders to pave their front garden with hardstanding without planning permission have changed in order to reduce the impact of this type of development on flooding and on pollution of watercourses. In instances where a forecourt exceeds 5m² planning permission will be required for laying traditional, impermeable driveways that do not provide for the water to run to a permeable area. However, planning permission is not normally required (unless removed by an Article 4 Direction) if permeable (or porous) surface material is used (such as gravel over a permeable membrane or sub-base, reinforced grass, porous asphalt, porous blocks, or if the rainwater is directed to a lawn or border to drain naturally) to allow the surface to drain naturally. *For further information refer to CLG'S Guidance on the permeable surfacing of front gardens (September 2008) and for further advice on the design and acceptable size of forecourt parking areas see the Design and Townscape Guide Supplementary Planning Document which can be viewed at www.southend.gov.uk*

Access Ramps on the Highway

101. The Equality Act 2010 requires building owners to ensure access for disabled people which, for existing buildings, often involves the removal of steps and the creation of ramps to the main entrances. There will be certain circumstances where this can only reasonably be achieved by creating a ramp on part of the public highway. Where this is necessary planning permission will be needed and supporting information will be required that demonstrates the need to encroach onto the public highway. These will normally only be acceptable where:
- there are no practical alternatives within the site boundaries (including within the building);
 - where the building has sufficient public significance (a building which is regularly visited by members of the public or where the ramp is needed for a member of staff);
 - where there is no adverse effect on the character and setting of a listed building; and
 - where there is no adverse impact on pedestrian flow
102. Where acceptable in principle, access ramps on the highway should be slip resistant and be constructed of high quality materials (including railing design) that complement the building and the streetscene.

3. Cycleways

103. As a Cycle Town, Southend is committed to providing for and promoting cycling and the Council will seek to ensure that the movement of people on bicycles is catered for in every highways scheme. The following points should be taken into account for every scheme:

- Due consideration should be given to integration and links with the existing cycle network, especially proximity to the main network routes and key destinations;
- Integration with streetscape improvements
 - cycling and walking to be prioritised in terms of hierarchy
 - dependant on street category
 - as identified within the Council's Local Transport Plan
- Provision of facilities to be appropriate to the street to achieve an increase in walking and cycling and associated benefits in terms of enhanced connectivity, safety, comfort, attractiveness, health and well-being;
- Speed reduction, traffic demand, parking design and management schemes should be considered as part of the infrastructure mix;
- Freeing up roadspace and re allocating for non-car modes should be considered as part of the overall plan to improve the streetscape

The design of a scheme will be location dependent; however each scheme will be expected to be designed to encourage more walking and cycling and to enhance quality of life for local residents and visitors. In order to achieve this there must be a dialogue and consultation with local residents, businesses, schools and so forth in order to define the characteristics of the area and to seek to resolve any potential conflicts.

104. Southend's Cycle Network Strategy and Local Transport Plan will coordinate the planning and installation of new routes and cycling facilities across the Borough. In Conservation Areas the visual impact of cycle lanes on the historic character of

the Conservation Area must be carefully considered at the design stage to ensure that the most appropriate markings and signage are used and in these cases the Council's Conservation Officers must be consulted.

105. Cycle Lanes should not normally be coloured as this provides an on-going maintenance liability. Further guidance on cycleway design can be found in Appendix 4 – Bibliography and Useful Documents. *Details of Cycle Parking options can be found in Section II: Street Furniture*



4. Signage and Wayfinding

Road Name Signposts

106. Southend has very distinctive road name signs which form an important part of local character. They were traditionally narrow wooden plates with curved edges and a decorative finial on top, many of which survive today but where they have been lost they have been replaced by a modern version with the same decorative finial. This will be continued to ensure that this aspect of local distinctiveness survives.
107. In some areas there are a few historic road signs that remain on the building frontages. These also make a significant contribution to local character and will be retained where possible.

Pedestrian Signage and Wayfinding



108. The Council recognises that pedestrian signage and wayfinding needs to be improved across the Borough but particularly in the Central Area. To this end a project is underway to install a coordinated programme of pedestrian signs and maps across the town centre has recently been completed. This provides an attractive, legible and durable navigational tool for visitors and replaces the existing ad hoc pedestrian signage. This programme will be extended to other areas of the Borough where it is deemed appropriate, and where funds allow.
109. Where possible, these sign posts should be black to allow for a sufficient contrast with the footway, and alignment with other elements of street furniture sought to minimise occurrences of unexpected street furniture for blind and partially sighted users.





Variable Message Signs (VMS)

110. Variable Message Signs (VMS) have been used in various locations in the Borough to help direct traffic to car parks and other destinations. Whilst they play an important role in local traffic management, they are of a significant size and their siting needs to be carefully considered to ensure that they are clearly visible, whilst not detracting from the character of the

surrounding townscapes particularly where they are close to Conservation Areas. All VMS' comply with traffic sign regulations and will be installed by the Council. If your scheme requires a VMS, the Council's Highways Department should be contacted in the first instance. *For information on sign types and locations see Table 2 below.*

Table 2: Signage and Wayfinding Specification

Location	Image	Style/ Manufacturer	Finish	Options
Wayfinding Signage Town Centre (main and side streets, central seafront); District Centres; Foreshore as appropriate		FW Design's 'Frank' multi signage	Brushed steel with blue fingers Height 3615mm including finial Sign width 756mm, Finger width 1023mm; Root fixed; Graphics applied by vinyl or engraved; Max 8 fingers per direction	To be located at key junctions in the pedestrian areas, particularly at key locations for visitors to the town such as railways stations where funds allow and provision is made for on-going maintenance costs.
		FW Design's 'Frank' post signage	Brushed steel with blue fingers; Height 3615mm including finial; Finger width 1023mm; Root fixed; Max 8 fingers per direction	To be located at secondary junctions in pedestrian area as required and where funds allow and provision is made for on-going maintenance costs. Black posts provide contrast with the footway and are beneficial for blind/partially sighted users.

Clifftown Parade and Western Esplanade		Chevron end finger post system.	Pagoda finial; case embellisher; plain collar; chevron end finger panel; gold lettering, maroon.	Manufacturers include Green Barnes.
Road Name Signs All Areas	 	<p>Traditional Road Name Sign to be retained</p> <p>Replacement Road Name Sign where original has been lost</p>	<p>Wooden, painted white with decorative finial White pole</p> <p>White with decorative finial to match original style</p>	<p>Add an 816 sign ('no vehicular access') to the name board to allow the removal of the older type sign and to allow maximum headroom</p>
VMS Signs				All VMS signs will be installed by the Council and will comply with traffic signs regulations.

section two



Section Two: Street Furniture

111. The basic principles of **Remove**, **Relocate** and **Rethink** should be applied to the provision of street furniture. Street furniture can add clutter to the highway and as such must only be installed where it is used, necessary, and an integral part of the design of the public realm. Where required, the style and location of street furniture should be coordinated and appropriate for the location. This section gives guidance on the key considerations and the styles appropriate for each character area.
112. The exact location of street furniture needs to be carefully considered so that it functions well, makes a positive contribution to its context and does not cause obstruction. Consideration should be given to whether the furniture is necessary whether there is existing furniture that is unnecessary or of poor quality that could be removed, and whether there are options to relocate or merge furniture. As noted previously, street furniture on pavements will normally be placed in line adjacent to the kerb to allow the maximum amount of clear footway.
113. From time to time the Council will undertake a street audit to identify items of redundant street furniture for removal. This has already started along key routes in the Borough.

Disclaimer: Where known previous manufacturer details are supplied but this is not exclusive. Identical products from alternative manufacturers may also be acceptable but will need to be verified before ordering.

Historic Street Furniture

114. A range of items of historic street furniture in the Borough have survived and make a valuable contribution to local distinctiveness. Examples include: K6 phone boxes, traditional post boxes, drinking fountains, street lights and original railings. Where these occur, especially in Conservation Areas, they should be retained and maintained. A number of original street lighting columns in Conservation Areas still exist and will be retained as far as practically possible and will only be replaced when absolutely necessary. Replacement lighting in these areas will be sympathetic to the historic character, in accordance with the product specifications set out in Table 6: Lighting Specification. The Council's Conservation Officer should be consulted on any works that affect the historic environment, including Conservation Areas.

115. In exceptional circumstances, where these items formed a significant part of local character the Council will consider reinstating traditional styles where possible as part of environmental enhancement schemes. This has been successfully carried out in the cliff gardens project where the very distinctive original garden lighting column was reinstated and at Prittlewell Square Gardens where the original railing design was replicated.

Replacement of Inappropriate Street Furniture

116. When funds allow the Council will look to replace or remove inappropriate street furniture which is detrimental to local character. Items such as concrete benches and concrete filled galvanised bollards will be upgraded to more appropriate designs in line with the product specifications set out in this Manual. This will be prioritised in Conservation Areas and in the town centre where their visual impact is particularly important.

Anti Skateboard Measures

117. It is recognised that skateboarding has caused damage to street furniture in the past and that the impact of this, particularly for planters, walls steps and seats needs to be a consideration for new schemes. Where designs are likely to be vulnerable to skateboard damage features that act as a deterrent to skateboarding will need to be incorporated, such as studs on walls or railings and arms on seats. The studs will need to be fully integrated into the design of the surface to ensure that they cannot be removed.

Reducing Signalling Clutter

118. In order to reduce clutter, signalling apparatus needs to be positioned in conjunction with other street furniture, and signal poles should be treated as an element of street furniture to ensure a comprehensive approach is adopted across all schemes. Signal cabinets should be located where they will cause minimal obstruction and minimal visual impact in the streetscene. Where located adjacent to landscaped areas consideration should be given to providing additional planting to screen to the sides of the cabinet and opting for a colour which blends into the background. Consideration should be given to mounting essential traffic signs on traffic signal poles where appropriate, to avoid street sign posts being installed adjacent to traffic signal poles, which is unsightly and adds clutter.

CCTV

119. In some areas of the Borough such as the Town Centre and seafront the Council has installed CCTV as a deterrent to street crime. New streetscene works in busy commercial areas and hotspots will need to consider the requirements for CCTV within the scheme. The presence of existing trees and their implications on the CCTV camera position must be taken into consideration before the location of new cameras is finalised to mitigate against the loss of street trees. The apparatus can be very visually dominant so should be placed where it is effective but will not detrimentally affect the quality of the environment. This is particularly important in historic areas. Opportunities to site cameras on existing buildings and on lighting columns should always be considered.

Where new cameras are proposed, the installation of CCTV ducts under the pavements will need to be established at an early stage.

Public Art

120. Public art can create a sense of place and adds richness and identity to the streetscene. It can be used to define key gateways and routes, it can form a new landmark and can play a significant role in the regeneration of the town. The Council is keen to promote the installation of high quality public art in appropriate places across the Borough, encouraging collaboration with local artists. Where opportunities for public art arise, for example as part of a large planning application, early discussions should be held with Council's Public Art Officer to ensure that the proposal and the location are suitable. Public art installations will also be considered as part of large streetscene projects - both the Victoria Gateway Project and City Beach include new public art installations.



City Beach


121. Public art should have a positive relationship to its context and should be located so that it can be appreciated by the general public but in a position where it will not cause an obstruction. It also needs to be robust and the maintenance of the piece should be a key consideration. *Further information on public art requirements on development sites can be found in the Southend-on-Sea Design and Townscape Guide SPD 2009 and within the Council's Public Art Strategy.*



5. Bus Stops and Shelters

122. The Council provides bus shelters at suitable sites around the Borough. These are provided in two different types, a 'residential' shelter and a high profile 'premier' shelter, each containing the same basic equipment but having minor differences in colour, appearance and seating. The residential shelter is principally located in residential areas and is normally coloured green. The premier shelter is normally used in conservation and shopping areas, or in other high profile locations such as Southend university hospital, these are normally coloured blue and in stainless steel. In most cases shelters will be installed back to the kerb to give the best possible position for maintaining footway width and to ensure the security of passengers. Shelters will only be located back to footway where it would be impossible to locate them without impacting on other infrastructure or reducing the ability of people to move along the road. Shelters are provided for security, safety and passenger comfort whilst also reducing antisocial behaviour and vandalism. Under a recent project called SaMERU for older people, stakeholders also identified the need for bus shelters to be positioned to maximise protection from the elements. All shelters will include Double Royal Information units and either purch or pad seating.
123. Not all locations will be provided with a shelter, and in these cases a bus stop pole will be used, colour dependent on location - green in residential areas and black in Conservation Areas and other high profile locations. Each pole will have a bus stop flag and information case fitted to it.
124. It is intended where possible to provide raised bus boarders to assist passengers, particularly for those who are mobility impaired or are parents with children in prams and pushchairs. Information will be a high priority and included at all bus stops to assist passengers. This will be in the form of timetables but include at more suitable sites Real Time Information display screens . Also included will be QR codes and SMS codes which provide next bus information direct to a phone either as a timetable or in real time which gives the time a bus can be expected to arrive at the bus stop. Additionally at some locations NFC will provide ability for latest generation mobile phone users to access direct information about sustainable travel by linking direct to other operators such as Rail, Air, Cycle and walking with mapping detail and a journey planner.
125. Bus stop locations are normally provided after a request from an operator and as a result of a new or improved bus service. When identifying a location safety will be the primary factor but consideration will also be given of the

requirements by bus companies, passengers, and other road and footpath users. The site must always have sufficient manoeuvring space on the carriageway to allow easy access for pedestrians and vehicles as well as considering the needs of mobility scooters, wheelchairs and pushchairs as well as not impeding the movement of other traffic and allowance for parked cars. *A detailed specification is provided in Table 3 below.*

Table 3: Bus Stops and Shelters Specification

Location	Image	Style/ Manufacturer	Finish	Comments
Town Centre (main and side streets) and predominate seafront locations; District Centres; A13, Southend hospital, Southend Airport and Conservation Areas		Queensbury Stainless Steel Premier Bus Shelter	<ul style="list-style-type: none"> - Duchess Blue (RAL5022) with stainless steel frame - Cantilevered or enclosed as appropriate with low level mid rail coloured RAL 5022 to allow for DRU units. - Low Barrel polyester powder coated roof with 8mm clear graffiti resistant polycarbonate glazing. - Side and end panels with 8mm clear graffiti resistant polycarbonate glazing. - Modula length, width and height. - 2300mm minimum footway to roof height or as required. - Integral individual seating pads with and without handle arms coloured RAL 5022. - 1 x Double Royal portrait information units per 2 bays. - Vertical Totem at the approach end 350x100 containing electrical feeder pillar and help phone line and coloured RAL5022. 	<p>Option for internal real time passenger information with text to speech audio with connection to key fob as per RNIB REACT3.</p> <p>LED lighting unit to each bay.</p> <p>End panels installed where appropriate sized according to available footway space.</p> <p>Bus stop flag bracket on top of Arrival end.</p> <p>Possible to add integrated ticket machines and public information systems.</p> <p>Low level panel for the blind and partially sighted vinyl covering included in totem.</p>



A13 phase 1 and 2, and Hamlet Court Road		Current Clear Channel shelter owned by the Council	<ul style="list-style-type: none"> - Stainless steel Rounded glass panel roof, glass side and back panels 4m long. - Integral GRP pad seating and timetable panel with electrical feeder pillar below. - Large size advertising panels with lighting. 	Being phased out and replaced by Queensbury premier shelter.
Residential Areas and Seafront Area (not including Conservation Areas)		Queensbury Arun Shelter	<ul style="list-style-type: none"> - Signal Green (RAL 6001) or Duchess Navy Blue BS 20C40 (Foreshore) with Traffic yellow mid rails RAL 1023. - Cantilevered or enclosed 4mm bronze polycarbonate barrel vault roof with 6mm clear anti graffiti polycarbonate side and end panels. - Modula length and width 2100 minimum footway to roof height or as required Integral perch seating and 650mm square information panels Green RAL6001. 	Variable end panels fitted where appropriate and footway widths allow Compatible with internal real time passenger information systems LED Lighting can be added Flag bracket to arrival end.




6. Bollards and Guardrail




127. Bollards are often used to protect pedestrians and prevent vehicles encroaching onto and damaging the footway or verges but they can significantly increase street clutter so will only be installed where absolutely necessary, and alternatives such as cycle stands, seats, raised kerbs, landscaping or tree planting should be considered as these may be able to do the same job as bollards whilst providing an enhanced visual interest or practical purpose. These alternative options should be considered at the design stage of each project. Bollards that are found to be redundant will be removed and reused elsewhere if necessary.
128. There are currently a significant number of different bollard styles installed throughout the Borough, which are listed within Table 4. One of the aims of this document is to rationalise these to provide a more coordinated approach to street design, including the use of bollards and Table 4 will be updated accordingly as the Manual is reviewed to reflect the rationalisation of bollard styles are used across the Borough.
129. Bollards will normally be black, although stainless steel bollards may be used in key areas and timber or green bollards on grass or planted verges where deemed appropriate although other options should be considered, such as raised kerbs or tree planting. The old style concrete and concrete filled galvanised bollards that have been installed in the past will be upgraded to a more visually acceptable design or alternative solution as funds allow.
130. In accordance with Objective 3 of this Manual, the Council is committed to finding opportunities to reduce energy consumption and create sustainable streets and spaces. Where keep left bollards are required therefore, retro-reflective or LED options will be used. All on-street signing and sign lighting should be agreed with the Council's Traffic Management Team who are working to reduce signs and sign lights across the Borough.
131. Where adjacent to on street parking, bollards will be located at a minimum 450mm from the kerb to allow for the overhang of lorries. *Further information on bollard types and locations is provided in Table 4 below.*

Table 4: Bollards and Guardrail Specification



Location	Image	Style/ Manufacturer	Finish	Comments / Options
All Areas – unless alternatives are specified below.		Furnitubes Cannon (CAN 500)	Cast iron black; 210mm diameter, 1140mm above ground, 260mm below ground.	To be used where funds allow; consider alternatives to bollards where their use is not essential to road safety.
Town Centre: High Street	 	ASF Street Furnishings Stainless Steel Bollard ASF Street Furnishings Stainless Steel sitdown bollards	 535mm high x 273mm diameter; satin brush finish	The ASF 5009 stainless steel bollard with blue visibility swirl are no longer in use. The bollards listed here are to be used as available, where funds allow where repairs/interim replacement works are essential. Any future works to the High Street should take a comprehensive approach to its design, with a simplified palette of materials.

Town Centre: side street and District Centres		Bollards International Croston Bollard - Black with red strip	Recycled steel centre with polyurethane outer. 900mm above ground. Diameter 160mm	
Conservation Areas		Furnitubes Manchester (MAN 536RB) or similar	Cast Iron painted black; 205mm round base; 975mm above ground, 300mm below ground, 205mm round base; 52kg	This is the preferred design for Conservation Areas, where bollards are an essential requirement. The Cannon (CA 500) bollard, in black, could be used as an alternative within conservation Areas.

Existing Schemes				
A13		Marshall's Rhino Bollard (RB 119)	Flat topped steel bollard; 168mm diameter; 900mm above ground; PC Black 9017; Red or white reflective banding	Base plate or liftout and lockable; Hazard banding
		Bollards International - Croston Bollard	Black with red strip; Recycled steel centre with polyurethane outer; 900mm above ground, diameters 100mm, 140mm or 160mm	The Southend-on-Sea Borough Council Type 7 boxed bollard and Type 8 tubular bollards (black powder coated stainless steel with indent for reflector where required) have also been used however a consistent approach to bollard installation should be adopted and those specified used where necessary.
		Marshall's Sentinel 150 Reflex Bollard	UV polyethylene Black with red reflective band; 166mm diameter; 1030mm above ground	


City Beach		Marshall's spherical 700 concrete bollard	700mm diameter; exposed black; without plinth	
District Centre: Hamlet Court Road		Marshall's M3 Flat Top Bollard – Stainless Steel with red reflective bands		
		Benchmark Stainless Steel Light Bollard CL016/SS/LB	Stainless Steel	South island only





District Centre: Hamlet Court Road		APT Security Systems Classic (42-312-006) or Slenda (42-312-005) Flexi bollard	Classic – black, diameter 100mm, height 722mm, depth 370mm Slenda – black, diameter 80mm, height 900mm, depth 300mm	
Elmer Square: The Forum		Rhino RS001 bollard – stainless steel, brushed satin finish	1000mm above ground, root fixed 300mm below ground set in concrete base.	
Pier Hill		Thorn Lighting 'Promenade' bollard	Black powder coated aluminium 1150mm above ground, 600mm below ground, 250mm diameter	

Pier Hill	 	<p>Marshall's Rhino Telescopic Bollard (RT SS5)</p> <p>Bollards International Croston Bollard</p>	<p>710mm above ground, 1000mm below ground, 101mm diameter; 10-pin push button lock; stainless steel</p> <p>Recycled steel centre with polyurethane outer; 900mm above ground, 160mm diameter; silver with blue strip.</p>	
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Travel Centre		Benchmark stainless steel light bollard CLO16/SS/LB	Stainless Steel	
Victoria Gateway (Phase 1)		Flame textured spheres - red brown granite (S813-300-TD)	600mm diameter	Supplied by CED Ltd.

Areas of Vehicle Overrun		Marshall's Recycled Plastic Composite Circular Bollard with chamfered top	Black Recycled Plastic Composite 100mm diameter 1200mm height	Reflective strip Reflectors Countersunk banding
Grass Verges		Furnitubes Garrick oak bollards	250mm x 250mm, at 0.5m above ground, 500mm below ground. Size allows for the 637.1 (No Parking on Verge or Footway) sign to fit the bollard with no overhang. Spacing to be determined in accordance with need.	Only used where there is evidence of vehicle overrun onto grassed and planted verges, other options such as raised kerbs should be considered in the first instance.
Footway Corners		Furnitubes 100 Cast Iron Bell Bollard	475mm above ground 450mm below ground 600mm diameter black	Used only where there is an identified risk of vehicle overrun onto footway. Other options should be considered before opting for Bell Bollards, such as cycle stand provision.

Keep Left Bollards		Glasdon Rebound Signmaster	Conforms to BS EN 12767, non-illuminated or LED illuminated version to be used dependent on location, to reduce energy consumption. Retroreflective, 300mm sign face.	Where persistent damage is incurred to the rebound bollards options such as kerb build-ups can be considered, dependent on location (not within Conservation Areas).
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Guardrail Specifications				
Location	Image	Style/ Manufacturer	Finish	Comments / Options
General Areas		Bar Infill Design	Powder coated black Staggered bars for better visibility 1 m x 2m, Root fixed	Guardrail should only be used if deemed necessary by a risk assessment.
	Or 	'Letterbox' design	Powder coated black Staggered bars and 'letterbox gap' for better visibility 1 m x 2m, Root fixed	
Outside Schools		'Letterbox' design Square ended bollard at either end of rails.	Powder coated green Staggered bars and 'letterbox gap' for better visibility 1 m x 2m, Root fixed Bollard – 1m, green, red reflector strip	Guardrail should only be used if deemed necessary by a risk assessment.
Leigh Broadway		Letterbox design	Powder coated black	

7. Cycle Parking





132. The Council is working to promote cycling across the Borough and will look to provide an increased number of cycle stands in all areas to fulfil the increasing demand. These will be prioritised at key destinations such as shopping and commercial areas, the seafront and railway stations. Other parts of the Borough will be assessed for need and additional stands provided where required. The Council will also ensure that cycle stands / secure storage areas are provided within new developments where appropriate. The Council's Development Management DPD, Policy DM15, sets out the approach to cycle parking provision within the Borough for development proposals www.southend.gov.uk
133. Sheffield style stands are used widely across the Borough in black or stainless steel depending on location. Where space is limited or where only one or two stands are required, e.g. on the A13 and outside small convenience stores, uses should be merged and hoop style single cycle parking stands that fixed directly onto existing street furniture, such as lampposts, considered. In some areas where security is an issue such as the town centre, 'M' style stands are also an option. In all areas the stands should be located where they will not cause an obstruction to pedestrians and where passive surveillance is possible. Build outs often provide a suitable 'out of the way' space for cycle stands, but again consideration should be given to merging street furniture as described above.
134. Where a cycle stand is removed as part of public realm/street works or a development, they should be replaced to ensure cycle parking provision across the Borough is not adversely impacted. Cycle stands should be located with care given to safety, security and accessibility. Leigh Old Town has been identified as having a shortage of cycle stands and additional cycle parking should be installed wherever feasible, sensitively addressing the setting of this important Conservation Area.
135. Stands should be submerged into the pavement and where possible situated parallel to the kerb at a distance of 600mm from the edge to ensure that the bike wheels do not overhang, however this will be determined on a case per case basis. A minimum of 1.8m clear footway must be maintained, 2m in areas of high pedestrian flow. *Further information on cycle stand types and locations are included in Table 5 below.*


Table 5: Cycle Parking Specification

Location	Image	Style/ Potential Manufacturer	Finish	Comments
All Areas (unless specified below)		'Sheffield' Cycle stand RCS1	Stainless steel or Black 48mm diameter 750mm width 750mm height above ground	Where space allows, colour and finish to be in keeping with existing street furniture.
		Broxap 'caMden' High Security 'M' stand	Black 50mm diameter 800mm height above ground 964mm width	Where high security is required. Allows for horizontal parking.
		Cyclehoop – Stainless steel	Stainless steel (to A13 and shopping streets) Can be fixed to bollards, signposts or lampposts	To be used where space is limited.

Chalkwell Station	 	<p>Harrogate Cycle Stand – Galvanised Steel</p> <p>Falco Safe Cycle Lockers – Galvanised steel with painted doors (RAL 5022)</p>	<p>790mm (w) x 800mm (h) Root fixed</p> <p>780mm (w) x 2085mm (d) x 1433mm (h)</p>	
Conservation Areas		'Sheffield' Cycle stand RCS1 - Black	Powder coated Black 48mm diameter 750mm width 750mm height above ground	Used where space allows

		Cyclehoop	Powder coated black Can be fixed to bollards, signposts or lampposts	Used where space is limited
District Centre: Hamlet Court Road		Harrogate Cycle Stand – galvanised steel	Root fixed	

Elmer Square: The Forum		Sheffield Cycle Stand – stainless steel	Root fixed, 300mm below ground, set in concrete base.	
		Vekso 'Aros' shelter	Steel with clear acrylic roof	
Town Centre Main Streets		Broxap 'caMden' High Security 'M' stand	Black 50mm diameter 800mm height above ground 964mm width	Where high security is required. Allows for horizontal parking.
		'Sheffield' Cycle Stand RCS1 – Stainless Steel	Stainless steel 48mm diameter, 750mm width, 750mm height above ground	Stainless Steel finish only to be used in Southend High Street.

Seafront		'Sheffield' Cycle Stand RCS1 – Stainless Steel	Stainless steel 48mm diameter, 750mm width, 750mm height above ground	High grade finish to be used given the exposure of the seafront for maintenance purposes.
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8. Lighting

Highway Lighting

136. The Council has a duty to ensure that roads within the Borough are adequately lit and provide the statutory level of illumination according to the road classification, helping to provide a safe environment for all road users.
137. The large public realm schemes carried out by the Borough Council in recent years have seen a significant upgrade in the quality of street lighting and this is setting the standard for future projects in the town. As with other types of street furniture, the appropriate style will vary for different areas with the highest specification lighting being installed in high profile locations and schemes. Following a trial of several different LED street lights in the Borough in 2014, the Council is now embarking on a programme of upgrades and LED lanterns will be installed on existing columns across the Borough.
138. The Council uses a number of different styles of lighting columns across the Borough. The type chosen at any particular location will depend on the type of street, its status, and the character of the area. More traditional designs will normally be used in the Boroughs Conservation Areas where existing historic columns, such as those on Royal Terrace, will be retained, with high quality contemporary forms being installed in key commercial areas as appropriate. Bespoke lighting may be called for in some locations such as the central area and seafront but unfortunately these specialist columns are more expensive and cannot therefore be rolled out across the Borough. In areas of high pedestrian activity additional pedestrian lighting may be installed as costs allow.



Original, decorative cast iron brackets make a positive contribution to the streetscene in the Clifftown Conservation Area

139. Many of the Borough's residential streets still have their original cast iron lighting columns but in some cases these are coming to the end of their useful and safe life and the Council is gradually undertaking a programme of replacement, including a roll-out of the LED lanterns. It is recognised, however, that where these survive in Conservation Areas they make a valuable contribution to the historic character and every effort will be made to repair and retain them for as long as possible. Replacement lighting in Conservation Areas will be sympathetic to the historic character, and opportunities for LED lanterns, where these match the existing conservation lantern styles, will be trialled by the Council and rolled out where appropriate and where funds allow.
140. In all areas opportunities should be taken where possible to utilise lighting columns to locate other street signage such as parking signage, so that the need for additional poles is minimised and clutter reduced. This will be dependent on the material of the column, for the Borough's concrete columns the addition of signage may impact on their longevity and may not always be feasible, however steel columns should be able to endure such additions. Consideration will also be given to combining lighting with signal heads or zebra crossing beacons, and in areas of high pedestrian flow or at important junctions opportunities for merging furniture should be considered, using lighting columns for dual purposes such as hanging baskets, banners, feature floodlighting of trees and Christmas decorations.
141. Lighting columns will normally be located adjacent to the kerb in line with other street furniture and should be set back 450mm from the kerblines. In areas of restricted pavement width columns may be located along the back edge of the footway. In these cases a gap of 75-100mm should be maintained between the column and any adjacent structure. In the majority of locations, street lighting columns will be painted black and be fitted with daylight sensors to ensure they are only in operation when necessary. The presence of existing trees and their implications on the lighting scheme must be taken into consideration before the location of new lighting columns is finalised.
142. Due consideration should also be given to the installation of street lighting to ensure that, where possible and where there is not a conflict with other uses, it helps to illuminate other public facilities such as bus stops.

Decorative Lighting

143. In some areas of the Borough decorative lighting has been provided in addition to the required highway lighting. This has been used to add interest and enhance the appearance of the street in the evenings. Examples include floodlighting of trees at Chalkwell Park, uplighters and light poles at Elmer Square, Elmer Approach and Clifftown Road and of course seafront illuminations at City Beach. Opportunities to enhance the streetscene with decorative lighting will be explored where appropriate.

Banner Columns




144. Banner columns will be used for street lighting projects in certain areas where there is a need to highlight the arrival at a place such as the gateway to the Borough on the A127 or in the town centre. It is essential provision is made for the future maintenance of the banners so that the columns do not end up unused.




Reducing Energy Consumption

145. Sensitively designed lighting schemes can have positive benefits for the local community by enhancing public safety, reducing the perceived fear of crime, and contributing to a sense of place. It forms an important part of the Borough's streets yet has a number of potential environmental impacts including energy consumption and light pollution. In order to provide a more energy efficient approach and reduce lighting pollution therefore, the Council has been investigating alternative, innovative lighting options and have recently undertaken a trial of LED lighting in the Borough.
146. Following the success of this trial, the Council is now rolling out a programme of works to replace street lanterns in the Borough with LED lanterns. The Ampera LED lantern will be used in general areas and residential streets, with the size of lantern chosen dependent on the street type. In other character areas like for like LED replacement lanterns will normally be used. Full product details are provided within Table 6: Lighting Specification.
147. All street work schemes proposed for the Borough that include street lighting must consider the energy requirements of the lighting installation in the final design, and LED light sources should be used in line with the product specifications set out



in this Manual (see Table 6: Lighting Specification). Opportunities for designs that allow sections of lighting not operationally required to be switched off or dimmed may also be considered. *Further information on street lighting styles and locations can be found in Table 6 below.*

Table 6: Lighting Specification

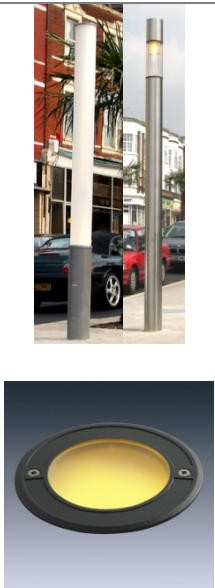
Location	Image	Style/ Manufacturer	Finish	Comments / Options
General Areas: Main Streets		Galvanised tubular steel column	Galvanised 8m, 10m, or 12m column options on main streets, dependent on location.	Used on main streets including the A127, Hamstel Road and Southchurch Road.
		Ampera 'midi' LED Lantern	Lantern to be grey to match columns	Existing lanterns to be replaced with Ampera LED lanterns.
General Areas: Residential Streets		'Magna' style column manufactured by Metcraft Lighting.	5m column, powder coated black.	

		Ampera 'mini' LED lantern.	Black lantern to match columns.	The CU Phosco P567 lantern will be phased out and no new ones installed.
Town Centre: High Street		Stainless steel column with Urbis Hestia Lantern	8m Stainless steel column	<p>To be used in the High Street only.</p> <p>Options for hanging baskets and banners</p> <p>LED option will be pursued if like for like product becomes available, or comprehensive streetscape improvements works are undertaken.</p>
Town Centre: side streets, City Beach, Victorias, A13, A127		Abacus Column with DW Windsor Stratum Lantern. LED Version to be used in the future	8m and 10m column options dependent on location, powder coated black lantern Colour to match column	<p>For areas with high footfall, matching pedestrian lantern can also be added to column on footway side.</p> <p>To be replaced with LED version of the stratum lantern towards the end of the 5-year project, when option for 10m column available.</p>

	  	<p>DW Windsor Genus Side Entry Bracket</p> <p>DW Winsor Capra uplighters</p> <p>DW Windsor Silka 1 light pole</p>	<p>Bracket arm 1.5m or 2m options. Powder coated black.</p> <p>Stainless Steel; 35 watt</p> <p>Height 2000mm Black with opal polycarbonate lantern; Root fixed</p>	<p>Feature lighting for Town Centre side streets including Elmer Approach.</p> <p>Used as feature lighting in town centre side streets, including Elmer Approach and Clifftown Road.</p>
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		DW Windsor: Oxford Column	Powder coated black Polycarbonate teardrop bowl	CU Phosco P567 lantern will be phased out and no new units installed. Replacement with other conservation lanterns (LED) may be possible in agreement with the Councils conservation team, but will need to take a holistic approach to ensure consistency within the Borough's historic streets.
Seafront (not including scheme specific lighting to Pier Hill/City Beach)		Abacus Column with Ampera LED lantern	8m or 10m column, powder coated black. Black lantern to match column, size dependant on location	




		DW Windsor Genus Side Entry Bracket	Black	
Site Specific Schemes:				
A13: Pocket Parks	 	5m Corus P4078 23121-1 column (2002 Special Product)	5m column. Powder coated black.	For pocket parks along the A13
		DW Windsor Manhattan Lantern (LED).	Lantern colour to match column (black).	All existing Manhattan lanterns that are not LED will be replaced with LED versions like for like.

<p>District Centre: Hamlet Court Road</p>		<p>Woodhouse 'Rotterdam' light Pole.</p> <p>Woodhouse 'Lightguide'.</p> <p>Inground 1-11 flush fitting canister mount inground uplighter</p>	<p>380mm(d) x 165mm (w)</p>	<p>Feature lighting used at southern end of Hamlet Court Road only.</p> <p>240 volt</p>
<p>Elmer Square: The Forum</p>		<p>DW Windsor Silka 1 light pole.</p> <p>Castaldi Polo Fluorescent 1x1 (8w).</p>	<p>2000mm, black with opal polycarbonate lantern, root fixed.</p>	

	   	<p>Iguzzini iroll 65 Medium beam optic, 5w</p> <p>Bega 35w HIT – uplighters (8819); and Bega drive-over 30 degree angled, 12w LED luminaire (8828)</p> <p>Abacus column</p>	<p>10m. column powder coated black</p>	
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		DW Windsor Stratum Lantern	Black lantern to match Column	LED version of stratum lantern to be used once available at correct specification for 10m column.
Nestuda Way		Galvanised tubular steel column with Ampera mini /midi LED lantern	Galvanised column; 3.5m – 5.5m options. Grey lantern to match column.	Urbis Sapphire 1 lantern will be replaced with Ampera mini/ midi LED lantern in grey.
Pier Hill		5m Stainton stainless steel octagonal column with Thorn Avenue F2 LED lantern		Thorn Avenue F2 LED lantern to replace the Thorn Avenue Deco Top Entry lantern where these are defective.

Thorpe Broadway	 	<p>Fabrikat 8m column.</p> <p>Ampera LED lantern; mini for footway lantern; midi for top.</p>	<p>Galvanised steel, columns painted black.</p> <p>Lanterns black to match columns.</p>	<p>Thorn Beta 5 lanterns to be replaced with LED</p>
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Banner Columns				
<p>A13, Progress Road, Southend Travel Centre, Town Centre Side Streets, Hamlet Court Road.</p>	  	<p>Column: Fabrikat 8m or 12m tubular steel (dependent on location)</p> <p>DW Windsor Stratum Lantern with genus bracket. LED version will be used in the future.</p> <p>Or, DW Windsor Rio Lantern (no finial) used in Hamlet Court Road only. (south entrance and London Road junction). LED version to be used in the future</p>	<p>Welded banner arms set at 5m and 10m. Column arm 1120mm length with fixings 150mm from each end. 48mm diameter</p>	<p>12m column option used on A13, Progress Road and at Southend Travel Centre.</p> <p>8m column options used in town centre side streets.</p> <p>DW Windsor Stratum Lantern and DW Windsor Rio Lantern will be replaced with LED version once available.</p>






9. Seating




148. Seats are an important part of the street furniture in the Borough as they can provide a valuable resting place for the older and those with mobility impairments and enable residents and visitors to enjoy the variety of views across the Borough. It is therefore important that they are placed in convenient locations which make the most of the outlook but do not cause an obstruction to pedestrian flow. This should be a key consideration when designing and auditing schemes in these locations, giving due consideration to the remove, relocate, rethink principles established by this Manual. When deciding on a location consideration should be given to issues such as the availability of space, topology, orientation and microclimate (sun/shade).
149. Where possible seats should be located in line with other street furniture so as not cause an obstruction and must be installed a minimum of 450mm from the kerb to allow access from parked cars. In all cases at least 1.8m of clear footway must be maintained increasing to 2m in areas of high pedestrian flow.
150. A number of different seating styles will be used across the Borough and these will vary according to which is most appropriate to the location. In most cases seats will be provided with armrests to assist less able users. The old style concrete seats that have been installed in the past will be upgraded to more visually acceptable design as funds allow. *Further information on seat types and locations is provided in Table 7 below.*

Donated Seats

151. The Council currently operates a donated seat scheme which allows memorial seats to be commissioned in various locations across the Borough. The style of seat will depend on the location available and will be compatible with other seats in the area. Donated seats are normally positioned in one of the Borough's parks but there may be limited opportunity for alternative locations on highway land. (e.g. on the foreshore). *For further information on donated seats see www.southend.gov.uk*

Table 7: Seating Specification

Location	Image	Style/ Manufacturer	Finish	Comments / Options
All areas – unless specified below		Street Furnishings SF-582 seat; 550mm x 750mm'	Cast iron seat with hardwood slats, dark stain finish'	Plaques; Extra base plates can be provides for a stronger fixing to the ground; alternative manufacturer Broxap 'Ashbourne' cast iron framed seat BX 720'
Conservation Areas	  Or 	SF-583 Cast Iron seat	Hardwood, dark stain finish	
		Street Furnishings SF-582 seat; 550mm x 750mm	Cast iron seat with hardwood slats, dark stain finish	Plaques; Extra base plates can be provides for a stronger fixing to the ground; alternative manufacturer Broxap 'Ashbourne' cast iron framed seat BX 720'

Existing Schemes – Product Specifications for Maintenance and Replacement					
A13		Marshall's Ollerton M3	Black Ground fixed Length 2000mm or 2400mm	A high range of options are available with this item – straight or curved, with or without armrests	
City Beach		Omos s96W large seat	2400mm (l) x 1040mm (d) x 790mm (h). Powder coated galvanised steel cantilevered support beam with seat and backrest supports. Iroko seat and back boards, with arm rests.		
		Omos s96W large bench with anti-skate bars	2400mm (l) x 1040mm (d) x 400mm (h). Powder coated galvanised steel cantilever support beam with centred seat supports. Iroko seat boards.		

10. Bins

152. There are currently a number of different litter bins styles across the Borough and the Council is looking to rationalise these to a simplified palette. The exact style chosen will be dependent on the needs and sensitivities of the location. In all cases they should be covered, easy to empty and clean and conveniently located in line with other street furniture (but a set away from seats to avoid unpleasant smells and insects).
153. Recycling is a key Council priority and in areas of high footfall, dual purpose bins that allow for the deposit of recyclables as well as ordinary waste will be installed. The design chosen uses colour to distinguish the recycling and general waste compartments. In conservation areas and other key areas these colours will be altered to minimise the visual impact on the environment.



Dog Waste Bins

154. All Dog Waste Bins in Southend are of the same design so that they are clearly recognisable. These will be considered in areas which are attractive to dog walkers, such as the seafront.

Salt Bins

155. Salt bins will be installed by the Council's Department for Place in areas conveniently located for gritting need and where space allows. *Further information on bin types and locations is provided in Table 8 below.*

Table 8: Bins Specification

Location	Image	Style/ Potential Manufacturer	Specifications	Comments
General areas with high footfall (except Conservation Areas, Victorias - specification for these areas is provided below)		Wybone LBV/24R dual litter and recycling bin	GFC Dual black litter bin with blue recycling bin 1016 mm height, 914mm width, 610mm depth 224 litres capacity	Cigarette Plate and Slam Lock to be added to each bin.
General Areas with low footfall (See above for high footfall areas)		Wybone LBV/20 Closed top litter bin 'Victoriana' Style	GFC, Black with gold lettering, textured finish Height 965mm Width and Depth 559mm Capacity 112 litres	Where required in low pedestrian flow areas. Preferred option to include cigarette stubber. Alternative retailer CNM

City Beach and Victorias		Wybone LBV/24R dual litter and recycling bin	GFC Dual black litter and black recycling bin 1016mm height, 914mm width, 610mm depth 224 litres capacity All Black with gold banding Black with gold lettering	Cigarette Plate and Slam Lock to be added to each bin.
Conservation Areas Option 1	 Or	Wybone LBV/24R dual litter and recycling bin	GFC Dual black litter and black recycling bin 1016mm height, 914mm width, 610mm depth 224 litres capacity All Black with gold banding Black with gold lettering	Commercial and seafront areas with high pedestrian flow. Cigarette Plate and Slam Lock to be added to each bin.

Conservation Areas Option 2		Wybone LBV/20 Closed top litter bin 'Victoriana' Style	GFC, Black with gold lettering, textured finish Height 965mm Width and Depth 559mm Capacity 112 litres	Where required in low pedestrian flow areas. Preferred option to include cigarette stubber. Alternative retailer CNM
Dog Waste Bin		Wybone WDB/112 large capacity Chute Disposal Dog Waste Bin	GFC Red with gold banding and lettering Height 1003mm Width and Depth 483mm Capacity 112 litres	Can be both free-standing attached to base or secured to a pole.
Salt Grit Bin		Wybone VGB/12 Victoriana Grit Bin	Fibre glass composite Black / grey with gold finish for conservation areas and key locations Grey or yellow finish for other areas. Open front with top hatch	Widely available.

11. Tree Protection and Planting

156. Trees and soft landscaping are an important part of the character of the Borough and the Council prides itself in its horticultural achievements. The importance of Southend's street trees is recognised in the *Southend-on-Sea Borough Wide Character Study 2011* which states that '*within the built up areas of the Borough trees play a key role in the character of the streetscapes.*' These showcase a range of different styles of planting that reflect the townscape including formal avenues of large street trees in the Victorian and Edwardian streets, more informal arcadia style tree planting with a wide variety of species, including more ornamental varieties in the interwar and twentieth century housing areas and grand boulevards of trees along the historic tram routes.
157. Street trees and other planting provide a welcome relief in urban areas and are a valuable part of the street experience. Streets with trees provide a softer and more humanised environment than those without. Research undertaken by I'DGO, highlighted by the SaMERU project, shows that the quality of the streetscene, including features such as trees, is a key factor in encouraging older people to go for a walk. They offer nesting sites and habitats and can provide display of colour throughout the year.
158. The Council has over 20,000 street trees which create a pleasant environment for pedestrians, make a significant contribution to the Boroughs character, help to mitigate the effect of vehicular traffic and pollution, as well as helping to mitigate the impact of climate change by providing shade and absorbing rainfall. Therefore it is important that these are well maintained and new trees planted, especially in areas that lack vegetation and where the existing trees are coming to the end of their useful life.



Tree Planting and landscaping makes a positive contribution to the setting of The Forum at Elmer Square'

159. One of the Councils key aims is to link up its green spaces to create a network of greenways and habitat links across the Borough. In addition to creating an attractive environment for residents and visitors, this initiative should help to encourage walking and cycling and will have significant biodiversity benefits.
160. The Council has a programme of street tree planting which includes the planting of trees as part of highway improvement schemes through the green grid. Where new street trees are proposed the species and locations chosen should be complementary to the townscape.
161. New highways and public realm schemes will always look to accommodate existing worthy trees where at all possible however in a few cases, a tree(s) may need to be removed. This decision is not taken lightly and where an existing tree is removed because of a highway improvement scheme or to enable a new major development proposal, they will be replaced by two new trees in the vicinity. Where existing trees have to be removed because they are dead, dying or dangerous the Council will look to replace them with a new tree in the same location if possible.
162. Landscaping and new trees will be an important part of new public realm schemes as they provide structure and softening to the project and to the surrounding townscape. This element must be considered from the outset and be an integral component of the scheme. In new developments where major excavation allows for the installation of larger trees, layered cell planting systems using structured soils will be used. Cell systems will be used elsewhere wherever practicable but in paved areas in the Borough's street, the standard box type root deflectors are to be used.
163. Where new street trees are proposed the consideration should be given to the following issues:
- Ensuring that at least 0.9m of clear footpath is maintained and that the tree would not obstruct pedestrian movement when fully grown;
 - Proximity to road junctions, road signs, traffic lights, telephone and overhead cables, street lights and cctv cameras;
 - The location of underground services (including sewers);
 - The impact on neighbouring dwellings or business units - positioning trees on the join between two addresses is often preferable to a location centrally in front of the premises.

- Species and variety – fruit trees can often create street maintenance and cleaning issues due to dropped fruit staining the street surface and creating a slippery surface, their use should be avoided.
- Tree roots - appropriate species should be planted and tree roots managed at the time of planting, for example through the use of hessian bag roots, and an open area left around the base to reduce root damage to the footway. Consideration should also be given to the location of the underground services.

164. New street trees must be appropriately sized for the location, have good form and be tolerant of the harsh conditions. The appropriate species for each location will be decided by the Council's arboricultural officers on a site by site basis. The following issues will be considered:

- The size and form of tree, the relationship to the space available and the character of the neighbourhood– in some areas the use of a single species is an important part of local character and tree planting often provides enclosure and rhythm for the street;
- The size of the tree when matured - where space permits consideration will be given to planting larger trees as they offer significantly greater benefits than smaller trees and create a greater contrast against the hard surfaces of the built environment.
- Whether root barriers/deflectors are needed to protect buildings, pavements or underground services. Layered cell planting systems using structured soils will be used when planting larger trees in new developments where space allows, and box type root deflectors used elsewhere in paved areas;
- The location, orientation and level of sunlight and rainfall of the location.

Tree Planting Best Practice

165. New trees are best located away from building frontages. They need to be close enough to the kerb edge to ensure enough clearance for pedestrians but should not be too close to the edge where they may be vulnerable to damage from high sided vehicles.

166. New trees will usually be planted by the Council but contractors may be required to prepare the planting hole to the required specification. This normally includes:
- a hole of 1m x 1m, the depth of which will be dependent on the size of the tree/container.
 - root barriers where necessary;
 - the correct soil composition (to be agreed by the Council's Arboricultural Officer);
 - a watering tube and stake;
 - a grille may also be required (generally only used in key Town Centre locations or where funding permits)
167. The exact specification for each site and species will need to be agreed with the Council's Park's department at the design stage. *Further information on tree protection measures and locations is provided in Table 9 below.*

Trees as Traffic Calming Measures

168. Trees should always be considered as a key component of traffic calming schemes and in particular the opportunity of using them where build-outs are proposed to narrow the carriageway (nib planting). They can create an attractive alternative to bollards (which have traditionally been used in these situations) and these locations generally have the advantage of containing less underground services which may present a problem for planting in existing pavements. Trial pits will be required in these locations to assess the quality of the underground environment and its suitability for tree planting.

Donated Trees

169. The Council currently operates a donated tree (or shrub) scheme which allows memorial or commemorative trees to be commissioned in various locations across the Borough. The exact location and species will be decided in discussions with one of the Council's arboricultural officers. Donated trees (with plaques if required) can be positioned in one of the Borough's parks or planted as a street tree (without plaques). *For further information on donated trees see www.southend.gov.uk*

Planters

170. When designing the public realm, planting can be an important feature and there are a number of options for achieving this. The use of tree planting will generally be encouraged as stand-alone features or as part of a comprehensive planting scheme, however there may be instances where tree planting cannot be accommodated planters in order to provide planting to soften and enhance the environment. There are a number of planter styles in use across the Borough, however it is intended to consolidate these and limit the range of planters used. Where deemed appropriate therefore planters must be fit for purpose and the design, materials and siting agreed with the Council's Strategic Transport and Planning Policy team in collaboration with the Council's Park Department, with details provided within a 'Materials and Street Furniture Update Form' (**Appendix 2**).

Southend Town Centre – Business Improvement District

171. The Southend BID Ltd has been trading since April 2013 following an overwhelming 'yes' vote in November 2012 to The Southend Town Centre Partnerships' proposal to create a Business Improvement District (BID) for the town centre and seafront.
172. The BID will be focusing on a number of issues to seek improvements to the town centre and seafront area, including streetscape works and a hanging basket planting scheme. Businesses were given the opportunity to vote for floral sculptures for placement in the High Street. There will be 3 sculptures in the first year, with a view to adding more in future years, in association with a marketing campaign.
173. The Council's Parks Department will be supplying and maintaining the plants and planters. For further information on the BID see: <http://www.southendtcp.co.uk/thebid>



Sponsorship of Planters

174. Opportunities exist for companies and organisations to sponsor roundabouts and planters. For further information see www.southend.gov.uk


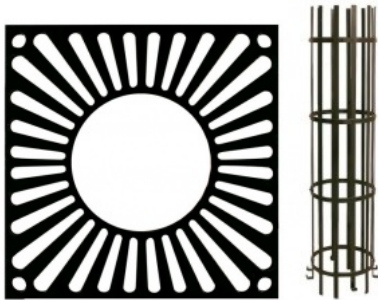
Hanging Baskets



175. Hanging baskets add colour to commercial streets especially where there is limited space for tree planting and planters but they do have an on-going maintenance cost which needs to be considered. Hanging basket brackets will be considered for all new street lighting in commercial areas where funds allow.

Roundabouts

176. The Borough's roundabouts play an important role in linking roads and streets, providing opportunity for traffic calming and traffic control. Due to their nature they form a visible part of the streetscene for road users, pedestrians and cyclists. There are a number of roundabouts in the Borough which benefit from green central islands. These are designed and maintained by the Council's Parks Section on a case by case basis, dependent on size, location, visibility, maintenance and junction hierarchy. Where appropriate, the Council encourages planting schemes on these roundabouts that add to the vibrancy and vitality of the Borough's streets, with particular focus on those roundabouts on key routes into the Borough. Excessive signage or street furniture in these spaces will not be encouraged. The Department for Transport provides detailed guidance on the design, siting and use of mini-roundabouts, TD 54/07 Volume 6 Section 2 Part 2, which should be adhered to.

Table 9: Tree Protection and Planter Specification

Location	Image	Style/ Potential Manufacturer	Specifications	Comments
All Areas – unless specified below	New trees may be planted in existing grass or planted verges or pavements where no tree grille or edging is required	Planting pit Mulch Two stakes with cross bar		
Elmer Square		Bespoke tree pit integrated into footway	1800x1800mm and 1200x1200mm bespoke tree frames with silver grey conservation slabs to match the footway, and loose laid gravel to centre.	To Elmer Avenue
Town Centre (main and side streets), District Centres, A13, Conservation Areas		Furnitubes Oxford Range tree grille and guard Or Marshalls 66 series	Black Guard, 1200mm external square, 300 internal diameter Grille fixed, 300mm diameter, 1800mm height	500 internal diameter

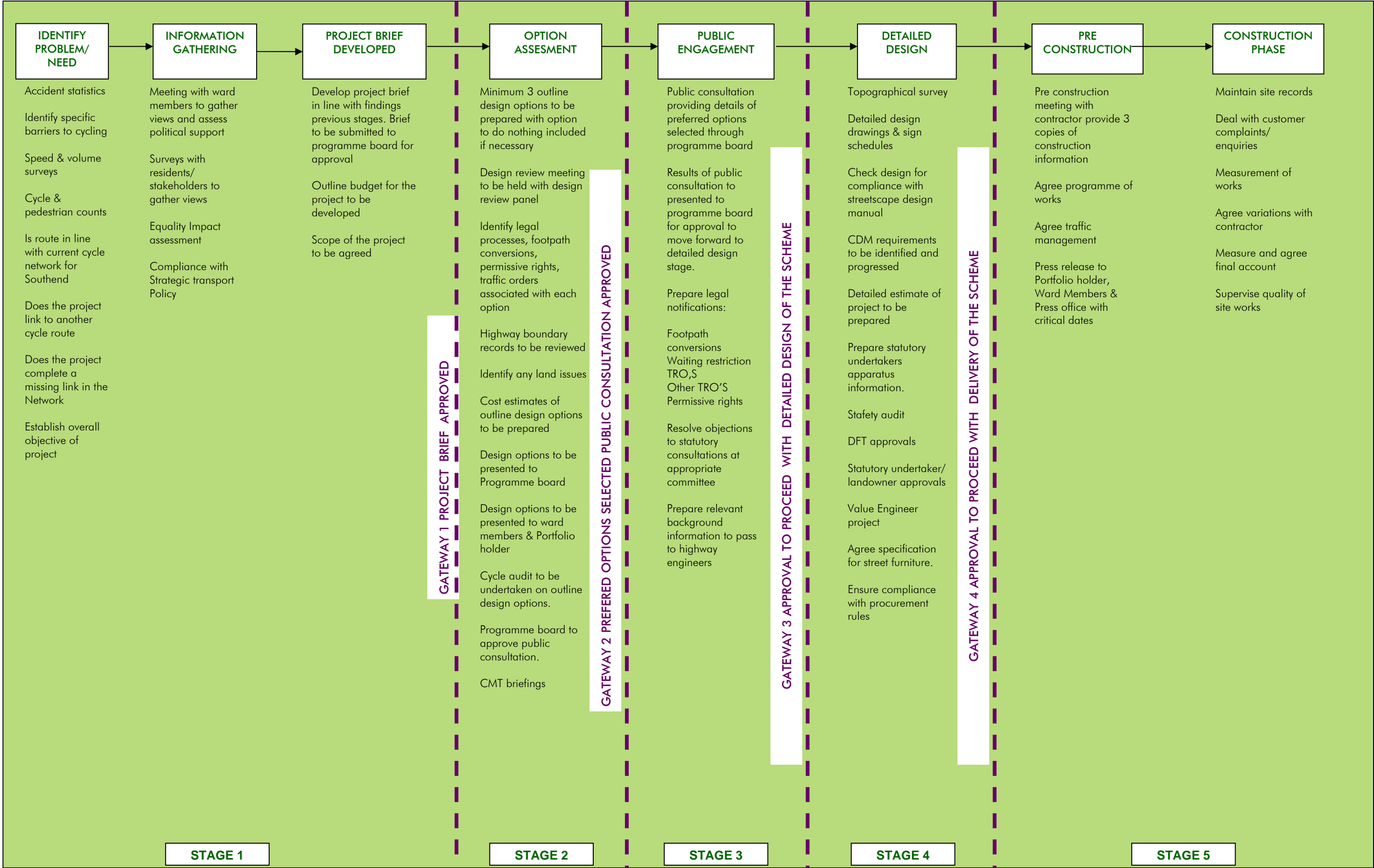
Seafront		Granite set border	Two or three rows of sets around a 1m x1m planting pit	
Planters				
Victoria Gateway		Oval Tree Islands by Streetlife	CorTen tree edgings with integrated border seats; FSC hardwood border comprising R&R beams (70x150mm); 9000mm long x 4000mm wide.	



appendices

Appendix One

5 Stage 'Gateway' Design Process



Appendix Two Materials and Street Furniture Update Form

Departures from the furniture and/or materials specified within the Streetscape Manual will need to be justified and agreed by the Council's Head of Planning and Transport. If you are proposing to use an alternative product it is advised that you contact the Council's Strategic Planning team in the first instance on 01702 215004 ext. 5364.

If you are proposing an alternative product you should complete the following form in full and return it to Strategic Transport & Planning Policy Southend Borough Council, Floor 12, Civic Centre, Victoria Avenue, SS2 6ZF.

We aim to consider your proposals within 14 days. Alternative products should not be used without prior agreement from the Council.

APPLICANT

Name:

Address:

Email / Contact Number:

AGENT (if applicable)

Name:

Address:

Email / Contact Number:

LOCATION/ADDRESS: (please include a red line plan outlining the site area)

PROPOSED ALTERNATIVE FURNITURE/MATERIAL: (please provide details on product type and specification)

REASON FOR PROPOSED CHANGE: (please provide detailed information on why the product specified within the streetscape manual is not considered appropriate in this location)

Appendix Three - Useful websites

ADEPT	www.adeptnet.org.uk
ATP Security Systems	www.atpcontrols.co.uk
Bailey Streetscene	www.baileystreetscene.co.uk
Benchmark	www.benchmark-ltd.co.uk
Bollards International	www.bollards-international.com
Broxap	www.broxap.com
Castacrete	www.castacrete.co.uk
CED Ltd	www.ced.ltd.uk
Charcon	www.charcon.com
Ciria	www.ciria.com
Civic Voice	www.civicvoice.org.uk
CNM	www.cnmonline.co.uk
Cycle hoop	www.cyclehoop.com
Department for Communities and Local Government	www.gov.uk
Department for Environment, Food and Rural Affairs	www.defra.gov.uk

Department for Transport	www.gov.uk
Design Council CABE	www.designcouncil.org.uk
DW Windsor	www.dwwinsor.com
English Heritage	www.english-heritage.org.uk
Fabrikat Ltd	www.fabrikat.co.uk
Falco	www.falco.co.uk
Furnitubes	www.furnitubes.com
FW Design	www.fwdesign.com
Glasdon	www.glasdon.com
Guide Dogs	www.guidedogs.org.uk
Haldo	www.haldo.com
Highways Agency	www.highways.gov.uk
Home Office	www.homeoffice.gov.uk
Joint Committee on Mobility of Blind and Partially Sighted People	www.jcmbps.org.uk
Joseph Rowntree Foundation	www.jrf.org.uk
Marshalls	www.marshalls.co.uk
Metcraft Lighting	www.metcraftlighting.com

Natural England	www.naturalengland.org.uk
Neptune	www.nofl.co.uk
OMOS	www.omos.ie
Pocket Places	www.pocketplacessouthendonsea.wordpress.com/about
Pudsey Diamond Engineering	www.pudseydiamond.com
Queensbury Shelters	www.queensburyshelters.co.uk
SaMERU	www.sameru.eu
Signature Ltd	www.signatureltd.com
Southend Borough Council	www.southend.gov.uk
Sustrans	www.sustrans.org.uk
Thorn Lighting	www.thornlighting.se
Trees and Design Action Group	www.tdag.org.uk
Urbis Lighting	www.urbislighting.com
Woodhouse	www.woodhouse.co.uk
Wybone	www.wybone.co.uk

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