

## **SEFTON EAST PARISHES AREA COMMITTEE**

**Date of Meeting:** 18th MARCH 2010

**Title of Report:** **HIGHWAYS MAINTENANCE PROGRAMME**  
**2010/11.**

**Report Of:** Mike McSorley – Head of Technical Services

**Contact Officer:** Mr A Hogan, Highway Manager  
Telephone: 0151 934 4253

	Yes	No
This report contains CONFIDENTIAL information/		√
EXEMPT information by virtue of paragraph(s) ..... of Part 1 of Schedule 12A to the Local Government Act 1972		√
Is the decision on this report DELEGATED?	√	

### **Purpose of Report**

To advise Members of those locations which have been identified for inclusion in the Highway Maintenance Programme for 2010/11.

### **Recommendation(s)**

It is recommended that Members examine the Programme and make known their comments, which shall be reported to the Cabinet Member, Technical Services.

### **Corporate Objective Monitoring**

<u>Corporate Objective</u>		<u>Positive Impact</u>	<u>Neutral Impact</u>	<u>Negative Impact</u>
1.	Creating a Learning Community		√	
2.	Creating Safe Communities		√	
3.	Jobs and Prosperity	√		
4.	Improving Health and Well-Being	√		
5.	Environmental Sustainability	√		
6.	Creating Inclusive Communities	√		
7.	Improving the Quality of Council Services and Strengthening local Democracy		√	
8.	Children and Young People		√	

**Financial Implications**

The cost of the schemes will be contained within the Highways Management budget allocations and Transport Capital Settlements for 2010/11.

**Departments consulted in the preparation of this Report:**

**Central Departments - None**

	Director	Date
Finance		
Legal		
Personnel		

Other Departments:

**List of background papers relied upon in the preparation of this report**

None

## **SEFTON M.B.C. SEFTON EAST PARISHES AREA COMMITTEE.**

### **1.0 BACKGROUND.**

- 1.1 Following the format adopted in previous years, the 2010/11 Highway Maintenance Programme, is being shared with Area Committee's for consultation and comment, prior to it being referred to the Cabinet Member, Technical Services for formal approval on 7<sup>th</sup> April 2010.
- 1.2 Unlike previous submissions to Area Committee, a single years programme of works is being presented at this time. Unfortunately, the damaging effects of the recent severe weather conditions will continue to manifest itself over the next few months leading to further and more significant levels of deterioration in many roads across the Borough. It is not possible to predict future deterioration levels across the whole network with any degree of confidence at this time; consequently, it is considered premature to attempt to identify schemes for inclusion in financial year 2011/12 and beyond.
- 1.3 The Highway Maintenance Programme for the whole of the Borough, is appended at the back of this report and includes a range of highway treatments, namely, Major Reconstructions, Carriageway Resurfacing, Micro-Asphalt Carriageway Surface Treatments and Footway Resurfacing/Relay schemes.
- 1.4 The programmes identify the volume of schemes which are likely to be completed during 2010/11 based upon anticipated budget allocations and preliminary cost estimates

### **2.0 SCHEME IDENTIFICATION.**

- 2.1 Since June 2001, this Department has operated the MARCH Pavement Management System to monitor the structural condition of highways throughout the Borough. This System incorporates national standards for the collection and analysis of survey data.
- 2.2 Structural condition surveys are primarily intended to identify deficiencies in the fabric of the highway, which if untreated are likely to adversely affect the value and performance of the highway network.
- 2.3 Typically the following defects are identified through these surveys:-

Carriageways:           Wearing Course and wheeltrack cracking, chipping loss, fatting up, fretting, local settlement, edge deterioration and rutting.

Kerbs:                    Inadequate upstand, kerb misalignment and disintegration.

Flagged Footways:   Cracked and depressed flags, spot defects, longitudinal trips.

Bitmac Footways:    Cracking, fretting, local settlement, spot defects, and longitudinal trips.

- 2.4 These surveys capture those sections of highway (footway and carriageway) which would benefit from programmed maintenance works. Given the range of maintenance treatments available (see paragraph 4.0) those locations with significant surface erosion, and/or structural defects would generate a subsequent Engineer's assessment with a view to being considered in the resurfacing/reconstruction programmes. Whilst those locations with relatively minor surface deterioration might justify preventative works being carried out, such as a slurry seal/surface dressing or a micro-asphalt treatment.
- 2.5 Prior to Christmas this traditional assessment process was being successfully applied in establishing local priorities, however, the severe weather conditions since then, particularly the cycle of freeze/thaw has accelerated deterioration levels in many roads across the Borough. This has resulted in the formation of an unprecedented number of potholes and other surface defects, predominantly, in the carriageway surfaces.
- 2.6 This, in turn, has prompted a re-evaluation of those prospective schemes, particularly carriageways which need to be included in the forthcoming programme of works.

### **3.0 EVALUATION PROCESS**

- 3.1 Based upon the levels of deterioration being reported, and the subsequent visual assessments carried out by technical staff, the relative need for treatments at individual locations has been determined and prioritised accordingly.
- 3.2 This evaluation has included an on-site assessment of the causation of the 'wear and tear', the type and depth of the construction materials, traffic loadings and density etc to support the decision making process of what, when and where to treat. This has included reviewing the impact of doing no programmed work at this time and continuing to maintain the section of highway through routine maintenance/patching operations. Consequently, the prioritisation of individual schemes has been based on its perceived need.

### **4.0 TREATMENT SELECTION**

- 4.1 The selection of individual treatments will depend upon the nature and severity of the defective lengths of highway.
- 4.2 Surface Dressing and Slurry Seal applications are essentially preventative treatments, which are applied to bituminous surfaces, which are relatively sound but which are showing initial stages of surface deterioration e.g. fretting. They seal the surface against the ingress of water and arrest their further deterioration. Consequently the levels of deterioration evident at the time of selection would be substantially less than for the resurfacing options. Both treatments will also increase the skid resistance of the surface.

- 4.3 Resurfacing can be carried out for one or more of the following reasons:-
- i) to restore the riding quality of the pavement
  - ii) to restore the skid resistance of the wearing course
  - iii) to achieve an impermeable surface to prevent water ingress to the existing pavement
  - iv) to renew the wearing course when the existing surfacing has oxidised and embrittlement of the binder has caused fretting and loss of cohesion of the aggregate, and thus to prolong the life of the existing pavement
  - v) if settlement or subsidence has taken place to restore the profile and reduce the dynamic load on the pavement.
- 4.4 Micro-asphalt surfacing is a cold applied treatment, which can be applied to a deteriorated surface, where the platform layer is in otherwise sound condition. It will seal surfaces against the ingress of water and thereby prolong the life of the underlying construction layers. It has limited re-profiling qualities but will provide a durable hard wearing surface for many years.
- 4.5 Reconstruction is the replacement of a significant depth of the existing road construction. It should take place only at the end of the serviceable life of the associated construction layers and when such procedures as strengthening overlays are not viable. It becomes necessary when traffic loading has exceeded the load bearing capacity of the road, causing unacceptable strain.
- 4.6 Anti-skid Treatment and/or re-texturing can be used where the skid resistance of the carriageway is at or below investigatory levels.
- 4.7 An annual programme of Footway reconstruction works is becoming more difficult to sustain because of the relative costs and the small amount of network coverage each year. Typically 8 to 10 streets can be relaid out of the 3500 plus streets which exist. Consequently, the reuse/relay of existing materials, predominantly kerbs and flags will have to be utilised more frequently in the future. In addition, fewer schemes will be undertaken, with some of the available budget being targeted toward lifting and relaying larger sections of uneven footway. Sections of flags which are consistently being damaged by vehicular over-ride etc will be looked at with a view to being replaced with bituminous materials.

## 5.0 **FINANCIAL ISSUES**

- 5.1 Annual condition surveys will indicate that maintenance works are required on a significant percentage of the network, however works can only be undertaken to the value of the budget which the Council sets each year.
- 5.2 Members will be aware that the current revenue budget for structural maintenance works (i.e. the planned maintenance) is at roughly the same cash value as in 1986/87. This means that taking inflation into account, the Department can do less than half of the volume of maintenance work that used to be carried out in 1986/87.
- 5.3 Additional Capital allocations for structural maintenance work through the Local Transport Plan (LTP) is available, but even with this funding, there

remains a substantial backlog in the maintenance work required across the Borough.

5.4 Basic calculations have shown that

(a) to achieve a surface renewal programme of carriageways and footways on an average 25 year cycle, additional funding for maintenance of around £8 million per year is needed.

(b) current funding for footway renewal, for instance, will allow us to reconstruct the Borough's footways approximately once every 250 years.

#### 6.0 **POTENTIAL 'ONE OFF' FUNDING INITIATIVE**

6.1 Members should be aware that at the time of preparing this report, Cabinet were due to consider making a one off additional budget allocation of £900k to support highway maintenance works in 2010/11. This potential allocation is not reflected in the attached programmes and in conjunction with the Cabinet Member, there will need to be further assessment as to how best this funding should be used to achieve maximum impact. This may comprise a combination of programmed patching works and/or additional resurfacing schemes being reported to this Committee at a later date.

#### 7.0 **GEOGRAPHICAL ISSUES**

7.1 The Council as local highway authority has a statutory duty to manage the lengths of highway for which it is responsible as defined in the 1980 Highways Act. The Council follows the nationally accepted Code of Practice for Maintenance Management.

7.2 Council Policy is to manage all the highways in Sefton on a needs basis dealing with those roads, which are considered to justify more immediate treatment, first. This will

- make best use of available resources
- enable the Council to discharge its statutory duty
- take into account road usage/deterioration
- mitigate the risk of insurance claims

7.3 Without significantly increasing the resources available to carry out maintenance works on an annual basis it will not be possible to start to address the outstanding backlog of maintenance work, which is required in the Borough.

8.0 **CONCLUSIONS**

- 8.1 Members are requested to examine the Programme and advise the Technical Services Department of any comments they may have. All comments and any additional schemes recommended at this Meeting shall be investigated to determine whether any adjustment to the current listings is appropriate.
- 8.2 The comments of the Area Committee, the results of the further assessment and any suggested amendments shall be reported to the Technical Services Cabinet Member for his final approval.
- 8.3 The final programme approved by the Cabinet Member shall then be circulated to Area Committees for information purposes.

**M McSorley**  
**Head of Technical Services**

**GLOSSARY OF TERMS**

<b>MARCH</b>	Maintenance Assessment, Rating and Costing for Highways.
<b>PMS</b>	Pavement Management System.
<b>Pavement</b>	The structure, comprising footway and/or carriageway composed of one or more constructional layers, to assist the passage of pedestrian or vehicular traffic.
<b>Sub-base</b>	A course of material, typically graded stone, laid as the initial constructional layer to give structural strength to the pavement.
<b>Surface Course</b>	The upper layer of the pavement (footway or carriageway) which is in contact with the traffic (pedestrians or vehicles).
<b>Slurry Seal</b>	A mixing of bitumen emulsion, aggregates and filler which is mixed in situ by specialised equipment and is screeded out onto a bituminous surface. It sets after evaporation of the water in the emulsion. Slurry seals are usually single applications.
<b>Micro Surfacing</b>	Similar to the above but the bitumen emulsion normally incorporates polymers which strengthen the mix.
<b>Surface Dressing</b>	A surface layer that consists of chippings spread and rolled into a film of sprayed bitumen.
<b>Fretting</b>	Loss of aggregate particles from the surface course due to hardening of the binder over time.
<b>Fatting Up</b>	Development of a smooth texture on a surface course due to excess bituminous binder.
<b>Chipping Loss</b>	Loss of Surface applied chippings, normally on Hot Rolled Asphalt or Surface Dressed Carriageways.

**M McSorley**  
**Head of Technical Services**



SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
PROGRAMME

2010 2011

FOOTWAY RECONSTRUCTION

ANNEX A

**HIGHWAY MAINTENANCE PROGRAMME 2010 2011  
FOOTWAY RECONSTRUCTION - WHOLE BOROUGH**

<b>Priority</b>	<b>Road Name</b>	<b>Location</b>	<b>Section Length</b>	<b>Ward</b>	<b>Treatment</b>
1	Harington Road	Netherton	50%	FORD	Reconstruction
2	Whitehaven Close	Ainsdale	Patterdale/Thursby Close Included	AINSDALE	Reconstruction
3	Alt Avenue	Maghull	Woodend Avenue Included Carriageway Tied	MOLYNEUX	Reconstruction

# SEFTON TECHNICAL SERVICES

## HIGHWAY MAINTENANCE PROGRAMME

2010 2011

## FOOTWAY SURFACE TREATMENT

ANNEX A

**HIGHWAY MAINTENANCE PROGRAMME 2010 2011**  
**FOOTWAY SURFACE TREATMENT - WHOLE BOROUGH**

Priority	Road Name	Location	Section Length	Ward	Treatment
1	Liverpool Road South	Maghull	Sefton Lane to Red Lion Bridge (1 side)	PARK	Surface Treatment
2	ONeil Street	Bootle	Radius Cleary Street Included	LINACRE	Surface Treatment
3	Southport Road	Lydiate	Bells Lane to L'pool Road North	PARK	Surface Treatment
4	Southport Road	Lydiate	Scotch Piper to Farm Shop (1 side)	PARK	Surface Treatment
5	Prescot Road	Maghull	Slip Road The Chesterfield Hotel	MOLYNEUX	Surface Treatment
6	Station Road	Lydiate	Southport Road to End of houses	PARK	Surface Treatment
7	Waddicar Lane	Melling	Hayes Drive To Chapel Lane	MOLYNEUX	Surface Treatment
8	Deyes Lane	Maghull	Damfield Lane to Eastway	SUDELL	Surface Treatment
9	Durham Avenue	Bootle	Salisbury Avenue To Durham Way	NETHERTON & ORRELL	Surface Treatment
10	Durham Avenue West	Bootle	All	NETHERTON & ORRELL	Surface Treatment
11	Scott Close	Maghull	Verge both sides	SUDELL	Surface Treatment
12	Duke Street	Waterloo	Verge both sides	CHURCH	Surface Treatment
13	Green Lane	Maghull	Canal bridge to Turnbridge Rd	PARK	Surface Treatment
14	Hornby Road	Bootle	Verge Areas	LINACRE	Surface Treatment
15	Ripon Close	Bootle	All	NETHERTON & ORRELL	Surface Treatment
16	Thirmere Close	Maghull	Windermere Drive to End	SUDELL	Surface Treatment
17	Woodland Close	Formby	All	HARRINGTON	Surface Treatment
18	Albert Road	Waterloo	Verge both sides	CHURCH	Surface Treatment
19	Bibbys Lane	Bootle	Peel Road to Marsh Lane Verge both sides	LINACRE	Surface Treatment

20	Hillary Crescent	Maghull	Verge both sides	SUDELL	Surface Treatment
21	Old Hall Close	Maghull	All	SUDELL	Surface Treatment
22	Shelly Street	Bootle	Marsh Lane to Peel Road Verge both sides	LINACRE	Surface Treatment
23	Southy Street	Bootle	Peel Road to Marsh Lane Verge both sides	LINACRE	Surface Treatment
24	Tennison Street	Bootle	Peel Road to Marsh Lane Verge both sides	LINACRE	Surface Treatment
25	Valentines Grove	Aintree	verge	MOLYNEUX	Surface Treatment
26	Wordsworth Street	Bootle	Peel Road to Marsh Lane Verge both sides	LINACRE	Surface Treatment
27	York Road	Maghull	Verge both sides	SUDELL	Surface Treatment
28	Twig Lane	Maghull	All	SUDELL	Surface Treatment
29	Lichfield Close	Bootle	All	NETHERTON & ORRELL	Surface Treatment
30	Spencer Street	Bootle	Peel Road to Marsh Lane Verge both sides	LINACRE	Surface Treatment
31	Gray Street	Bootle	Peel Road to Knowsley Rd Verge both sides	LINACRE	Surface Treatment
32	Quigley Avenue	Bootle	Verge both sides	NETHERTON & ORRELL	Surface Treatment
33	Tebay Close	Maghull	Moss Lane to End	SUDELL	Surface Treatment
34	Ridley Lane	Maghull	All	SUDELL	Surface Treatment
35	Pennington Avenue	Bootle	Verge Areas	NETHERTON & ORRELL	Surface Treatment
36	Haweswater Grove	Maghull	Windermere Drive to End	SUDELL	Surface Treatment
37	Sandringham Road	Maghull	L'pool Rd Sth to Buckingham Rd	PARK	Surface Treatment
38	Salt Pit Lane	Maghull	All	SUDELL	Surface Treatment
39	Hesketh Drive	Maghull	Deyes Lane to End	SUDELL	Surface Treatment
40	Bluestone Lane	Maghull	All	SUDELL	Surface Treatment
41	Flatfield Lane	Maghull	All	SUDELL	Surface Treatment
42	Durham Mews East & West	Bootle	All	NETHERTON & ORRELL	Surface Treatment
43	Dark Lane	Maghull	All	SUDELL	Surface Treatment
44	Norton Street	Bootle	Peel Road to Pope Street Verge both sides	LINACRE	Surface Treatment
45	Brecon Avenue	Bootle	One Side Only	NETHERTON & ORRELL	Surface Treatment
46	Claremont Ave	Maghull	Access points	PARK	Surface Treatment

47	Durham Way	Bootle	All	NETHERTON & ORRELL	Surface Treatment
48	Epsom Close	Aintree	All	MOLYNEUX	Surface Treatment
49	Exeter Close	Aintree	All	MOLYNEUX	Surface Treatment
50	Hunt Road	Maghull	All	SUDELL	Surface Treatment
51	Cheltenham Close	Aintree	All	MOLYNEUX	Surface Treatment
52	Rossllyn Ave	Maghull	All Access areas	PARK	Surface Treatment
53	Farmdale Drive	Maghull	All	SUDELL	Surface Treatment
54	Downside Drive	Aintree	All	MOLYNEUX	Surface Treatment
55	Edinburgh Close	Bootle	All	NETHERTON & ORRELL	Surface Treatment
56	Sandon Street	Waterloo	All	CHURCH	Surface Treatment
57	Eastway/Northway	Maghull	Service Road cul-de-sac	SUDELL	Surface Treatment
58	Keswick Close	Maghull	Eskdale Drive to End	SUDELL	Surface Treatment
59	Greenheys Drive	Maghull	Deyes Lane to End	SUDELL	Surface Treatment
60	Highfield Park	Maghull	Verge both sides	SUDELL	Surface Treatment
61	King Street	Waterloo	All	CHURCH	Surface Treatment
62	Cartmel Ave	Maghull	All	SUDELL	Surface Treatment
63	Waltho Ave	Maghull	Eastway to End	SUDELL	Surface Treatment
64	Avondale Road	Southport	Saunders Street to Alexandra Road	CAMBRIDGE	Surface Treatment
65	Cambridge Road	Southport	Manor Road to Preston New Road	MEOLS	Surface Treatment
66	Ennerdale Avenue	Maghull	Eskdale Drive to End	SUDELL	Surface Treatment
67	Hawkshead Close	Maghull	Eskdale Drive to End	SUDELL	Surface Treatment
68	Heymans Green	Maghull	Easway to End	SUDELL	Surface Treatment
69	Monmouth Drive	Aintree	All	MOLYNEUX	Surface Treatment
70	Oakham Drive	Aintree	All	MOLYNEUX	Surface Treatment
71	Ravenglass Ave	Maghull	Ambleside to Kendal	SUDELL	Surface Treatment
72	St Asaph Grove	Bootle	All	NETHERTON & ORRELL	Surface Treatment
72	Arnside Road	Southport	Church Street to Manchester Road	DUKES	Surface Treatment

73	Nedens Grove	Lydiate	All	PARK	Surface Treatment
74	Windsor Road	Maghull	All	PARK	Surface Treatment
75	Patterdale Crescent	Maghull	Cartmel Drive to Windermere	SUDELL	Surface Treatment
76	Eskdale Drive	Maghull	Langdale Drive to End	SUDELL	Surface Treatment
77	Scott Street	Bootle	All	LINACRE	Surface Treatment
78	Abbotsford Road	Blundellsands	All	BLUNDELLSANDS	Surface Treatment
79	Deyes End	Maghull	All bitmac areas (including all adjoining roads)	SUDELL	Surface Treatment
80	Rochester Avenue	Bootle	All	NETHERTON & ORRELL	Surface Treatment
81	Tensing Road	Maghull	Eastway to Hunt Road	SUDELL	Surface Treatment
82	Alexandra Road	Southport	Albert Road to Avondale Road	CAMBRIDGE	Surface Treatment
83	Boyer Ave	Maghull	Old Hall Road to Greosvenor Road	SUDELL	Surface Treatment
84	Brook Street	Southport	Rufford Road to End	MEOLS	Surface Treatment
85	Langdale Drive	Maghull	Kendal Drive to Moss Lane	SUDELL	Surface Treatment
86	Beaumont Drive	Aintree	All	MOLYNEUX	Surface Treatment
87	Dodds Lane	Maghull	Park Lane/Kenyons Lane to Lathom Drive	SUDELL	Surface Treatment
88	Shop Lane	Maghull	Green Lane to End	PARK	Surface Treatment
89	Brighton Road	Birkdale	Kew Road to L'pool Road	BIRKDALE	Surface Treatment
90	Salisbury Avenue	Bootle	All	NETHERTON & ORRELL	Surface Treatment
91	Penrith Crescent	Maghull	Langdale Drive to Windermere Dr	SUDELL	Surface Treatment
92	Irlam Road	Bootle	Atlas Road to Strand Road	LINACRE	Surface Treatment
93	Chester Avenue	Bootle	All	NETHERTON & ORRELL	Surface Treatment
94	Church Street	Southport	All	DUKES	Surface Treatment
95	Sankey Road	Maghull	Northway Service Rd to Grosvenor Rd	SUDELL	Surface Treatment
96	Windermere Drive	Maghull	Moss Lane to Kendal Drive	SUDELL	Surface Treatment
97	Canning Road	Southport	Cobden Road to Bispham Road	NORWOOD	Surface Treatment
98	North Road	Southport	Rufford Road to No 43 / Roselea Drive	MEOLS	Surface Treatment
99	Wennington Rd	Southport	Cobden Road to Bispham Road	NORWOOD	Surface Treatment

100	Kendal Drive	Maghull	All include link to Deyes Lane	SUDELL	Surface Treatment
101	Moss Lane	Maghull	Deyes Lane to Langdale Drive	SUDELL	Surface Treatment
102	Buckingham Road	Maghull	All	PARK	Surface Treatment
103	Deyes lane	Maghull	Hesketh Drive to End of cul-de-sac	SUDELL	Surface Treatment
104	Balfour Road	Southport	Forest Road to Scarisbrick New Road	KEW	Surface Treatment
105	Hereford Drive	Bootle	All	NETHERTON & ORRELL	Surface Treatment
106	Lulworth Road	Birkdale	Waterloo Road to Aughton Road	DUKES	Surface Treatment
107	Wango Lane	Aintree	All Including Service Road	MOLYNEUX	Surface Treatment
108	Rotten Row	Birkdale	All	DUKES	Surface Treatment
109	Broadoak Road	Maghull	All	SUDELL	Surface Treatment
110	Sefton Estate	Netherton	Isolated Locations		



SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
PROGRAMME

2010 2011

CARRIAGEWAY RESURFACING

ANNEX A

**HIGHWAY MAINTENANCE PROGRAMME 2010 2011  
CARRIAGEWAY RESURFACING - WHOLE BOROUGH**

Priority	Road Name	Location	Section Length	Ward	Treatment
1	Lady Green Lane	Ince Blundell	Approach To Carr House Lane	RAVENMEOLS	Plane & Inlay
2	Bleasedale Avenue	Aintree	All	MOLYNEUX	Plane & Inlay
3	A565 Lord Street	Southport	Roundabout At Leicester Street	DUKES	Plane & Inlay
4	Liverpool Road	Lydiate	A59 Northway to Farming Premises	PARK	Plane & Inlay
5	Brownmoor Lane	Crosby	Approach To Chesterfield Road	VICTORIA	Plane & Inlay
6	Foxhouse Lane	Maghull	Hillcrest To Poverty Lane	SUDELL	Plane & Inlay
7	Croxteth Avenue	Litherland	All	LITHERLAND	Plane & Inlay
8	Palmerston Avenue	Litherland	All	LITHERLAND	Plane & Inlay
9	Henley Drive	Southport	All Footway Tied	CAMBRIDGE	Plane & Inlay
10	Curzon Road	Waterloo		CHURCH	Plane & Inlay
11	The Serpentine South	Blundellsands	Across Junction Of Burbobank Road	BLUNDELLSANDS	Plane & Inlay
12	The Serpentine South	Blundellsands	Merrilocks Road To Agnes Road	BLUNDELLSANDS	Plane & Inlay
13	Hall Road West	Blundellsands	Bend at car park	BLUNDELLSANDS	Plane & Inlay
14	Warren Road	Blundellsands	Approach To The Serpentine South	BLUNDELLSANDS	Plane & Inlay
15	Hermitage Grove	Bootle	All	NETHERTON & ORRELL	Plane & Inlay
16	A565 Albert Road	Southport	Saunders Street To Leicester Street	CAMBRIDGE	Plane & Inlay
17	A565 Liverpool Avenue	Ainsdale	Green Walk To Segars Lane	AINSDALE	Plane & Inlay
18	Hawthorne Road	Bootle	Roundabout at Merton Road	DERBY	Plane & Inlay
19	Merton Road	Bootle	Stanley Road To Hawthorne Road Selected Repairs	LINACRE	Plane & Inlay
20	Ormskirk Road	Aintree	Service Road Opposite Old Road Station	MOLYNEUX	Plane & Inlay
21	Haileybury Avenue	Aintree	All	MOLYNEUX	Plane & Inlay
22	Roselea Drive	Southport	All	MEOLS	Plane & Inlay



SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
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CARRIAGEWAY SURFACE  
TREATMENT

ANNEX A

**HIGHWAY MAINTENANCE PROGRAMME 2010 2011  
CARRIAGEWAY MICRO SURFACING - WHOLE BOROUGH**

Priority	Road Name	Location	Section Length	Ward	Treatment
1	Park Avenue	Southport	150m Approach To Park Crescent	CAMBRIDGE	Micro Surfacing
2	Park Road West	Southport	Fairways To Albert Road	CAMBRIDGE	Micro Surfacing
3	ONeil Street	Bootle	Parking Bays Seafield Road Included	LINACRE	Micro Surfacing
4	Knowsley Road	Southport	Saunders Street To Park Road West	CAMBRIDGE	Micro Surfacing
5	Lathom Road	Southport	All	CAMBRIDGE	Micro Surfacing
6	Somerville Road	Crosby	All	VICTORIA	Micro Surfacing
7	Goldsmith Street	Bootle	All	LINACRE	Micro Surfacing
8	Wrekin Drive	Aintree	All	MOLYNEUX	Micro Surfacing
9	Maple Street	Southport	All	NORWOOD	Micro Surfacing
10	Hesketh Drive	Maghull	All including Deyes Lane Service Road	SUDELL	Micro Surfacing
11	Court Road	Southport	Leyland Road To Alexandra Road	CAMBRIDGE	Micro Surfacing
12	Mason Street	Waterloo	All	CHURCH	Micro Surfacing
13	Neville Road	Waterloo	South Road to Hadfield Rd	CHURCH	Micro Surfacing
14	Derwent Avenue	Formby	All	HARINGTON	Micro Surfacing
15	Fir Street	Southport	All	NORWOOD	Micro Surfacing
16	Berkeley Road	Crosby	All	BLUNDELLSANDS	Micro Surfacing
17	Railway Street	Southport	All	KEW	Micro Surfacing
18	Fawcett Road	Lydiate	All	PARK	Micro Surfacing

SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
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CARRIAGEWAY  
SURFACE DRESSING

ANNEX A

**HIGHWAY MAINTENANCE PROGRAMME 2010 2011  
CARRIAGEWAY SURFACE DRESSING - WHOLE BOROUGH**

Priority	Road Name	Location	Section Length	Ward	Treatment
1	Duke Street	Formby	Cross Green To Kings Road	RAVENMEOLS	Surf Dressing
2	Cockledicks Lane	Southport	All including Churchill Avenue	CAMBRIDGE	Surf Dressing
3	Liverpool Road	Lydiate	Oakhill Drive to Kenyons Lane	PARK	Surf Dressing
4	Rotten Row	Southport	All	DUKES	Surf Dressing
5	Lydiate Lane	Thornton	Buckley Hill Lane To Lydiate Park	MANOR	Surf Dressing
6	Thornbeck Avenue	Hightown	RBT to End	MANOR	Surf Dressing
7	Ravemeols Lane	Formby	Liverpool Road To Level Crossing	RAVENMEOLS	Surf Dressing
8	Kings Road	Formby	All	RAVENMEOLS	Surf Dressing
9	Brewster Street	Bootle	Bedford Road To Liverpool City Boundary	DERBY	Surf Dressing
10	Brewster Street	Bootle	Liverpool City Boundary To Bedford Road	DERBY	Surf Dressing
11	Banks Road	Southport	All	MEOLS	Surf Dressing

SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
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CARRIAGEWAY  
RECONSTRUCTION

ANNEX A



**HIGHWAY MAINTENANCE PROGRAMME 2010 2011  
CARRIAGEWAY RECONSTRUCTION - WHOLE BOROUGH**

<b>Priority</b>	<b>Road Name</b>	<b>Location</b>	<b>Section Length</b>	<b>Ward</b>	<b>Treatment</b>
1	Town Lane	Kew	Cheltenham Way To Hythe Close	KEW	Reconstruction
2	Duke Street	Southport	Cemetery Road To Duke Avenue	KEW	Reconstruction
3	Preston New Road	Southport	Approach To Rathmore Crescent	MEOLS	Reconstruction
4	Southport Road	Bootle	Maguire Avenue To Aintree Road	DERBY	Reconstruction
5	Rawson Road	Seaforth	Princess Way To Claremont Road	LINACRE	Reconstruction
6	Halsall Lane	Formby	All	RAVENMEOLS	Reconstruction

SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
PROGRAMME

2010 2011

CARRIAGEWAY  
ANTI-SKID  
SURFACE TREATMENT

ANNEX A

**CARRIAGEWAY ANTI-SKID SURFACE TREATMENT 2010 2011  
WHOLE BOROUGH**

<b>Priority</b>	<b>Road Name</b>	<b>Location</b>	<b>Section</b>	<b>Treatment</b>	<b>Ward</b>
	<b>Various Sites to be included in 2010 2011 Maintenance Programme Data Still Being Analysed</b>				

SEFTON TECHNICAL SERVICES

HIGHWAY MAINTENANCE  
PROGRAMME

2010 2011

STREET LIGHTING

ANNEX A

**STREET LIGHT IMPROVEMENTS 2010 2011  
WHOLE BOROUGH**

<b>Priority</b>	<b>Road Name</b>	<b>Ward</b>
<b>1</b>	<b>Marine Terrace, Waterloo Phase II</b> Adelaide Terrace, Beach Lawns	<b>Church</b>
<b>2</b>	<b>Stannyfield Drive, Crosby</b> Saffron Mews, Bretlands Road, Newfield Close, Humphreys Hey, Tanhouse Road, Field Walk, Caraway Close, Masefield Road, Blakefield Road, Hedgecroft, Coney Crescent	<b>Manor</b>
<b>3</b>	<b>Cast Iron Replacement Phase I</b> Southbank Road, Shakespeare Street, St James Street, Talbot Street, Cross Street, Bentham Street, Marlborough Road, Marlborough Gardens, Halsall Buildings.	<b>Kew/Dukes Ward</b>
<b>4</b>	<b>Cast Iron Replacement Phase II</b> Chester Avenue, Chester Road, Vernon Road, Bengarh Road, Hawkshead Street, Windsor Road, Hartwood Road, Marsden Road, St Lukes Grove, Myrtle Grove, Olive Grove, Cypress Street, Mill Lane Crescent, Mill Lane Cul De Sacs, Devonshire Road, Bibby Road.	<b>Norwood</b>

<b>5</b>	<b>Cast Iron Replacement Phase III</b> Brighton Road, Barrett Road, Clifford Road, Lyndhurst Road, Longford Road Shaftsbury Road	<b>Birkdale</b>
<b>6</b>	<b>Strategic Replacements Phase 3 2010-2011</b> Locations to be confirmed following CMT test in 2010	<b>Various</b>
<b>7</b>	<b>Stanton/Stavely Replacement Phase II, Southport</b> Kingston Crescent, Ferryside Lane, Norbury Close, Surrey Close, Primrose Close	<b>Meols</b>
<b>8</b>	<b>Stanton/Stavely Replacement Phase III, Southport</b> Skipton Ave, Whitby Ave, Ilkey Ave, Beverley Close, Harrogate Way, Fell View, Baytree Close, Shenley Way, Woodlea Close, Tarvin Close, The Pastures, Bridge Wills Lane	<b>Meols</b>
<b>9</b>	<b>Almonds Turn</b> Concrete column replacement with associated illuminated signs and re-cabling.	<b>St Oswalds</b>
<b>10</b>	<b>Fernhill Close</b>	<b>Linacre/Derby</b>
<b>11</b>	<b>Bank Lane, Melling</b> South of the "Pear Tree" to boundary	<b>Molyneux</b>
<b>12</b>	<b>Operation Replacements April-September</b>	<b>Various</b>
<b>13</b>	<b>Operation Replacements October-March</b>	<b>Various</b>