

Principal Roads And Bridge Maintenance



D1.1 This appendix contains Graphs D.1 to D.4 showing alternatives on estimated settlement compare to residual life as referred to in Chapter 4, and Table D1, which contains the list of carriageway maintenance schemes and Table D 2 which outlines the 2000/01 bridge strengthening and maintenance programme. A summary of the carriageway maintenance schemes is outlined below.

D1.2 Table D 1 lists the carriageway maintenance schemes on principal roads being undertaken in 2000/01. Examples from the list are outlined below and, where appropriate, indicate the remaining residual life and the measures proposed.

- **A607 Croxton Kerrial to Waltham on the Wolds:** this is a Primary Route and was a specific bid, separately justified, in the 1999 LTP submission. 65% of the overall scheme length of 5.4 km has a residual life of less than zero years and a further 24% has a residual life of zero to four years. The County Council is contributing an additional £30,000 from its Local Safety Schemes Budget to improve road safety along this length of carriageway. This will include high PSV aggregate and improved signing and lining at sensitive locations.
- **A606 Nottingham Road (2 schemes) Potter to Ab Kettleby:** this is a Primary Route where the section of carriageway with low residual life is being strengthened and resurfaced and the remaining sound carriageway is being surfaced dressed to restore surface texture.
- **A512 Shepshed:** major resurfacing of a busy traffic signal controlled junction with low residual life. This scheme is combined with advance works for future provision of a cycleway and pedestrian crossing facilities.
- **A607 (2 Schemes) Hobby Horse Island to Co-op Island:** this is a Primary Route in need of urgent surface dressing to seal cracks, restore texture and to replace a worn out anti-skid surface at the approach to a busy traffic island.
- **A4304 North Kibworth:** almost the entire length of this section of carriageway has a residual life of less than zero years.

Improvements to the drainage system are required to improve road safety.

- **A444 Austrey Turn to Appleby Parva:** this is a Primary Route where 28% of its length has a residual life of less than zero years and the remaining length a residual life of zero to four years.
- **A512 Ashby Road, Moyles Court to District Boundary:** the majority of this length of carriageway is life expired, with over 70% less than zero years residual life.
- **A511 Ashby Road, Hoo Ash Island to Sinope:** this is a Primary Route and an important HGV route between Leicester, M1 and A42. The majority of this length of carriageway is life expired, with over 50% less than zero years residual life.

D1.3 The remaining schemes include the following treatments:

- surface dressing to seal cracks and restore surface texture as part of a preventative maintenance regime and road safety measures;
- haunch repairs to failed carriageway edges which have safety implications particularly to cyclists and motorcyclists.



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Table D.1 - Carriageway Maintenance Schemes on Principle Road 2000/01

Division/ Agency Area	Proposed Treatment	Works Estimate £
Northern Division		
A607 Croxton Kerrial to Waltham on the Wolds	Resurface	495,000
A606 Nottingham Road; Potter Hill to Ab Kettleby	Surface Dress	15,000
A606 Nottingham Road; top Potter Hill to delimit Ab Kettleby	Resurface	30,000
A6006 Asfordby Hill; Melton Rd roundabout to Asfordby Valley	Surface Dress	18,000
A6006 A46 junction & bend toward Wymeswold	Resurface	20,000
A512 Shepshed; near traffic lights	Resurface	59,000
A607 Hobby Horse island to Co-op island	Surface Dress	20,000
A607 Hobby Horse approach to Co-op island	Renew anti-skid	15,000
Harborough Highways Partnership		
A4304 North Kilworth	Drainage/ overlay	95,000
A5199 John Ball Hill, Shearsby	Haunch	60,000
A5199 Knaptoft Turn to 500m south of Mowsley Turn	Haunch	60,000
A426 Lutterworth Road; Dunton Bassett	Resurface	25,000
Western Division		
A444 South of Sibson	Surface Dress	8,000
A444 Austrey turn to Appleby Parva	Overlay	80,000
A512 Ashby Road; Moyles Court to District Boundary	Resurface	100,000
A511 Ashby Road; Hoo Ash island to Sinope	Resurface	115,000
HQ		
A512 Ashby Road/ Snells Nook Lane Junction Improvement contribution	Resurface	45,000
Agent Authorities		
A606 Sherrard Street - Melton	Resurface	60,000
A511 Bardon Road - NWL	Strengthen	40,000
Retention on 1999/2000 schemes		15,000
Total Works Estimate		1,375,000
Design and supervision		100,000
Surveys		20,000
Grand Total		1,495,000

Table D 2 - Bridge Assessment, Strengthening and Maintenance Programme For 2000/1

2000/1 Priority	Bridge No.	Bridge Name	Reason	Route Cat.	S/M	Estimate £000
		Bridge Assessment				
		County Council				10
		Railtrack				35
		Rail Property Ltd.				5
		Private				10
		Total				60
		Bridge Strengthening/Maintenance				
1	207	A60 Nottingham Road Railway Bridge (Railtrack)	As bid – subject to confirmation by Railtrack	PR N	S	200
2	190	A50 Mineral Railway Bridge	As bid	PR N	M	24
3	201	A60 Cotes Mill Overflow	As bid	P	M	3
4	577	C5111 (old B587) Markfield Bridge	Additional funds added (bid £85k)	L	M	102
5	897	Meadow Lane, Loughborough	Deferred to 2002/3	O	S	-
6	566	Bridge Street, Loughborough	Scheme brought forward and completed in 1999/2000	L	S	-
7	1209	Glenbarr Drive, Hinckley	As bid	O	S	23
8	436	Stoughton Bridge	As bid	O	S	15
9	5174	Saffron Road Footbridge	As bid	-	M	38
10	667	Thrussington Bridge	As bid	O	M	18
11	896	Somersby Road, North of Owston	As bid	O	M	4
12	874	Court Road, Thurnby	As bid	O	M	18
13	1019	Barkby Lane	As bid	O	S	6
14	400	Meadow lane, Coalville	As bid	O	M	12
15	524	Newtown Linford	As bid	O	M	8
16	2187	Culvert near Marquis of Granby	As bid	O	M	17
17	1114	Dog and Gun Lane, Whetstone	As bid	O	M	15
18	931	Tonge Road, Breedon	As bid	O	S	10
19	2381	Shortheath Road, Moira	As bid	O	M	4
20	852	Rycroft Road, Hemington	As bid	O	M	2
21	942	Mill Lane, Sileby	As bid	O	M	7
22	883	Flood Arches, South of Bringham	As bid	O	M	7
23	1150	Main Street, Shawell	As bid	O	M	3
24	952	Level Crossing Bridge, Rotherby	Deferred pending outcome of review of highway status	O	S	-
25	996	North of Thorpe Arnold	Deferred	O	S	-
-		Weight Limits for 6 No. Bridges funded through lorry control budget (£12k)				-
	1228	Rosemeade Drive, Oadby	Scheme carried forward from 1999/2000	O	S	30
	148	A46, Millfield Farm	Brought forward from Reserve Schemes	PR N	M	33
	208	A60 Loughborough Canal Bridge	Scheme carried forward from 1999/2000	P	S	11
	181	Kilby River bridge	Brought forward from Reserve Schemes	P	M	20
		Total				630
			Total Works Cost			690
			Total Funding (LTP Settlement for 2000/1)			690



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Table D 3 - Strengthening and Maintenance Schemes For Bid Year 2001/02

Priority No.	Bridge No.	Bridge Name	Description and Justification.	Route Cat.	S/M	Est. £000
1	280	A607 Leicester Road, Melton	Single span brick arch; Existing deck: 13tonne ALL; Route is major artery for Melton; Strengthening will be subject to Railtrack's agreement.	PRN	S	40
2	722	Theddingworth Lodge Canal Bridge	Single span brick arch; Existing deck: 17tonne ALL; Additional reinforcement required; Effects on agricultural business are unacceptable.	O	S	29
3	1016	Leicester Lane Canal Bridge	Single span brick arch; Existing deck: 17tonne ALL; Additional reinforcement required; Effects on agricultural business are unacceptable.	O	S	29
4	720	Gumley Road Canal Bridge	Single span brick arch; Existing deck: 25tonne ALL; Additional reinforcement required; Effects on agricultural business are unacceptable.	O	S	29
5	914	Bates Wharf, Shackerstone	Single span brick arch; Existing deck: 10tonne ALL; Additional reinforcement required; Effects on agricultural business are unacceptable.	O	S	29
6	229	A444 Sibson Bridge	Single span reinforced Concrete deck; Repairs to copings, parapets and painting; Road is major north/south route.	PRN	M	7
7	266	Leesthorpe Bridge	Single span brick arch; Brick repairs and pointing; Road is major route between Melton and Oakham.	PRN	M	2
8	267	Burton Brook, Burton Lazars	Single span brick arch; Brick repairs to parapets; Road is major route between Melton and Oakham.	PRN	M	4
9	282	Lady Wilton Bridge, Melton	5 span masonry/concrete arch; Repointing of barrel and masonry replacement; Route is major artery for Melton.	PRN	M	6
10	806	Great Easton	Single span steel bridge; Existing deck: 3tonne ALL; Steel deck beams require replacement due to corrosion; Main route through village.	O	S	50

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Priority No.	Bridge No.	Bridge Name	Description and Justification.	Route Cat.	S/M	Est. £000
11	216	Blaby River Bridge	4 span reinforced concrete bridge; General concrete repairs to slab soffit and outer beams; Waterproofing; Route is major artery for Leicester City.	P	M	59
12	502	Langham Bridge	6 span reinforced concrete deck; General concrete repairs to deck; Waterproofing; Scour protection; Heavy load route.	L	M	44
13	299	Canal Bridge, Loughborough	Single span precast beam deck; Waterproofing; Renew expansion joints; Concrete repairs; New fender to abutment; Ring road to large industrial estate.	P	M	45
14	289	Epinal Way, Loughborough	Single span box culvert; Waterproofing; Concrete repairs; Ring road for Loughborough.	P	M	25
15	643	Kaffir, Bottom End, Whetstone	Single span RC slab deck; Waterproofing; Paint parapets; Heavy load route to industrial estate.	L	M	30
16	240	lbstock	Single span precast concrete beam deck; Waterproofing; Concrete repairs; High load route.	P	M	17
17	582	Culloden Farm Culvert	Single span brick arch; Rebuild parapets and spandrels; Repoint Barrel; Scour protection; Local agricultural importance.	L	M	18
18	199	Cotes Culvert 'A', Loughborough	Single span RC slab deck; New P2 parapet; General repairs; Route is major artery for Loughborough.	P	M	14
19	200	Cotes Culvert 'B', Loughborough	Single span RC slab deck; New safety fencing; General repairs.	P	M	14
20	301	Holywell Ironworks	Single span brick arch and RC slab deck; Waterproofing; Scour protection to invert and training walls; General repairs; Heavy load route.	P	M	15
General maintenance on bridges <£10,000						131
Total Programme value for Strengthening and Maintenance 2001/2						637

Key: **M** Maintenance
S Strengthening
PRN Primary Route Network
P Principal Road
O Other
M/L More Than Local Importance (Lorry Route)