

Kilkenny County Council



Winter Service Plan 2023 -2024



October 2023

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1. Document Control

Role	Name	Signature	Date
Prepared By:	Kieran Kelly		
Checked By:	Seamus Kavanagh		
Winter Services Manager	Tim Butler		
Director of Services for Transportation	Tim Butler		

2. Purpose and Scope

The purpose and scope of this document is to identify the processes, procedures and key personnel employed by Kilkenny County Council in the delivery of winter maintenance services throughout County Kilkenny.

3. Winter Maintenance Policy

Motorists have a general duty of care to consider prevailing weather and road conditions when planning and/or undertaking journeys across the public road network.

Due to the length of the road network in County Kilkenny, it is not feasible to treat all roads in the County during the Winter Season (**October 16th 2023 to April 30th, 2024**). Accordingly, a form of prioritisation is necessary, and routes are divided into the following three priority designations:

Kilkenny County Council will seek to ensure, as far as reasonably practicable, the prevention of ice formation and of snow accumulation on **Priority 1 Routes (Red Routes)**.

Kilkenny County Council will seek to ensure, as far as reasonably practicable, the prevention of ice formation and of snow accumulation on **Priority 2 Routes (Blue Routes)**.

In extreme weather events and/or in circumstances requiring resource prioritisation, Priority 1 Routes will take precedence over Priority 2 Routes in terms of the allocation of available resources.

Kilkenny County Council will provide periodic winter maintenance services on **Priority 3 Routes (Green Routes)**. Such services will only be provided on selected occasions associated with the anticipation of particularly severe weather conditions. Road-users must not assume that pre-salting services have been provided to the Priority 3 Network.

Mobilisation and Treatment times are detailed in Table 4.1 below. In the case of Priority 1 and 2 Routes, notification of the intention to commence pre-salting services is required a minimum of five to six hours in advance of the predicted time of ice formation.

Table 4.1

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	1hr	1hr	When possible
Treatment Time	2.5hr	3.5hr	When possible

4. Decision Matrix

The Duty Engineer will inspect the forecast system daily from approximately 2pm or as soon thereafter as the Met Eireann forecast has been received. The decision matrix in Table 4.1 consists of the following;

Table 4.1 Decision Matrix

Road Surface Temperature	Precipitation	Predicted Road Conditions		
		Wet	Wet Patches	Dry
May fall below 1°C	No rain No hoar frost No fog	Salt before frost	Salt before frost (see note a)	No action likely, monitor weather (see note a)
Expected to fall below 1°C	No rain No hoar frost No fog		Salt before frost (see note b)	
	Expected hoar frost Expected fog			
	Expected rain before freezing	Salt after rain stops (see note c)		
	Expected rain during freezing	Salt before frost and, as required, after rain stops (see note d)		
	Possible rain Possible hoar frost Possible fog	Salt before frost	Monitor weather conditions	
Expected Snow		Salt before snow fall		
The decision to undertake precautionary treatments should be, if appropriate, adjusted to take account of residual salt or surface moisture.				
All decisions should be evidence based, recorded and require careful monitoring and review.				

Notes:

- a) Particular attention should be given to the possibility of water running across carriageways and other running surfaces e.g. surface water off adjacent fields after heavy rains, washing off salt previously deposited. Such locations should be closely monitored. Ideally the source of the run-off should be diverted from the roadway.
- b) When a weather warning contains reference to expected hoar frost, considerable deposits of frost can occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before its onset, may be dispersed before it can become effective. Careful monitoring is required under this forecast condition which should ideally be treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road prior to but as close as possible to the expected time of the condition. Hoar frost may also be forecast at other times of the day, in which case the timing of salting operations should be adjusted accordingly.
- c) If under these conditions, rain has not ceased by early morning, crews should be called out and action initiated as rain ceases.
- d) Under these circumstances rain will freeze on contact with running surfaces and full precautionary treatment should be provided even on dry roads. This is a most serious condition and should be monitored closely and carefully throughout the danger period.

5. Winter Maintenance Route Mapping Schedule

The following list in Table 5.1 sets out the drawings which indicate the Priority 1, 2 and 3 Routes for Winter Maintenance and also indicate the Section 85 arrangements between Kilkenny County Council and Tipperary County Council whereby, in the interests of efficiency services are provided by one local authority on behalf of another. The mapping for Priority 1, 2 and 3 Routes is contained in the Appendices.

Table 5.1 Winter Maintenance Route Mapping Schedule

Drawing. No.	Drawing Name	Date
KCC-WM-01	Priority 1 & 2 Routes	Oct. 2015
KCC-WMP1&2-01	Route A – N77, N78, R639 & R693	Oct. 2017
KCC-WMP1&2-02	Route B – N76, N24 & R448	Oct. 2015
KCC-WMP1&2-03	Route C – R700, N25 & R704	Oct. 2015
KCC-WMP1&2-04	Route D – N10, R713, R448, R712 & Ring Road	Oct. 2015
KCC-WM-05	Section 85 Kilkenny/Tipperary	Oct.2013
KCC-WM-08	Section 85 Tipperary/Kilkenny	Oct. 2013
KCC-WMP3-01	Priority 3 Route Kilkenny Area	Sept. 2011
KCC-WMP3-02	Priority 3 Route Castlecomer Area	Nov. 2010
KCC-WMP3-04	Priority 3 Route Newrath Area	Nov. 2010

6. Duty Rosters

The duty rosters for Kilkenny Local Authority staff assigned to the winter service plan are contained in Tables 6.1 and 6.2 below.

Table 6.1 Duty Engineers Roster

Duty Engineer	Duty Period Start	Duty Period Finish
Stan Cullen	16/10/2023	22/10/2023
Declan Murphy	23/10/2023	29/10/2023
Seamus Kavanagh	30/10/2023	05/11/2023
Philippe Beubry	06/11/2023	12/11/2023
Stan Cullen	13/11/2023	19/11/2023
Declan Murphy	20/11/2023	26/11/2023
Seamus Kavanagh	27/11/2023	03/12/2023
Philippe Beubry	04/12/2023	10/12/2023
Stan Cullen	11/12/2023	17/12/2023
Declan Murphy	18/12/2023	24/12/2023
Seamus Kavanagh	25/12/2023	31/12/2023
Philippe Beubry	01/01/2024	07/01/2024
Stan Cullen	08/01/2024	14/01/2024
Declan Murphy	15/01/2024	21/01/2024
Seamus Kavanagh	22/01/2024	28/01/2024
Philippe Beubry	29/01/2024	04/02/2024
Stan Cullen	05/02/2024	11/02/2024
Declan Murphy	12/02/2024	18/02/2024
Seamus Kavanagh	19/02/2024	25/02/2024
Philippe Beubry	26/02/2024	03/03/2024
Stan Cullen	04/03/2024	10/03/2024
Declan Murphy	11/03/2024	17/03/2024
Seamus Kavanagh	18/03/2024	24/03/2024
Philippe Beubry	25/03/2024	31/03/2024
Stan Cullen	01/04/2024	07/04/2024
Declan Murphy	08/04/2024	14/04/2024
Seamus Kavanagh	15/04/2024	21/04/2024
Philippe Beubry	22/04/2024	28/04/2024

Table 6.2 Drivers and Fitters Roster

Drivers	Fitters	Duty Period Start	Duty Period Finish
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Andy Cleere/James Fenlon	16/10/2023	22/10/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Paul Hogan/Pat Kavanagh	23/10/2023	29/10/2023
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Michael Lonergan/Declan Lawlor	30/10/2023	05/11/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Andy Cleere/James Fenlon	06/11/2023	12/11/2023
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Paul Hogan/Pat Kavanagh	13/11/2023	19/11/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Michael Lonergan/Declan Lawlor	20/11/2023	26/11/2023
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Andy Cleere/James Fenlon	27/11/2023	03/12/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Paul Hogan/Pat Kavanagh	04/12/2023	10/12/2023
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Michael Lonergan/Declan Lawlor	11/12/2023	17/12/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Andy Cleere/James Fenlon	18/12/2023	24/12/2023
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Paul Hogan/Pat Kavanagh	25/12/2023	31/12/2023
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Michael Lonergan/Declan Lawlor	01/01/2024	07/01/2024
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Andy Cleere/James Fenlon	08/01/2024	14/01/2024
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Paul Hogan/Pat Kavanagh	15/01/2024	21/01/2024
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Michael Lonergan/Declan Lawlor	22/01/2024	28/01/2024
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Andy Cleere/James Fenlon	29/01/2024	04/02/2024
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Paul Hogan/Pat Kavanagh	05/02/2024	11/02/2024
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Michael Lonergan/Declan Lawlor	12/02/2024	18/02/2024
Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Andy Cleere/James Fenlon	19/02/2024	25/02/2024
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Paul Hogan/Pat Kavanagh	26/02/2024	03/03/2024
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Matty Foley, Colm Killian, Eamonn Coogan, Nicky Grace	Michael Lonergan/Declan Lawlor	15/04/2024	21/04/2024
David Dooley, Martin Morrissey, Pat Sweeney, Michael Reade	Andy Cleere/James Fenlon	22/04/2024	28/04/2024

7. Treatment Matrix

The following information outlines the application rates for pre-salting:

- Pre-salting is provided at a rate of 10g/m²
- At selected sections of pre-salting routes or on particularly severe events, application rates may be increased to reflect localised conditions.
- Routes have been designed to allow a treatment at 15g/m² when conditions dictate (For example during nights with prolonged cold periods or excess residual water).

8. Plant, Vehicles and Equipment

Kilkenny County Council operates 4 No. demountable salt spreaders which are permanently mounted on trucks for the duration of the winter maintenance season. Also, Kilkenny County Council has 3 No. demountable salt spreaders which are permanently mounted on trucks to provide extra cover in the event of a breakdown or extreme conditions. In addition to the above plant, Kilkenny County Council maintains 3 No. salt spreaders in the Machinery Yard which can be mobilised in extreme conditions when required.

Kilkenny County Council has 7 No. snow ploughs available for deployment in the event of snow conditions. 5 No. of these snow ploughs are truck mounted and the other 2 No. have been adapted to fit loading shovels.

Kilkenny County Council also operates 7 No. demountable salt spreaders and 3 No. towed salt spreaders.

The list of plant and service records are itemised in Tables 9.1 and 9.2 below:

Table 9.1 Salt Spreaders – Service Record

Description	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of Next Calibration	Date of next Service
SG10 – Demountable	Machinery Yard	9m ³ Pre-Wet	Nov '23	Nov '23	Nov '24	Nov '24
SG9 – Demountable	Machinery Yard	9m ³ Pre Wet	Nov '23	Nov '23	Nov '24	Nov '24
SG8 – Demountable	Machinery Yard	9m ³	Oct '23	Oct '23	Oct '24	Oct '24
SG7 – Demountable	Machinery Yard	9m ³	Oct '23	Oct '23	Oct '24	Oct '24
SG6 – Demountable	Machinery Yard	9m ³	Oct '23	Oct '23	Oct '24	Oct '24
SG5 – Demountable	Machinery Yard	9m ³	Oct '23	Oct '23	Oct '24	Oct '24
SG4 – Demountable	Machinery Yard	7m ³	Oct '23	Oct '23	Oct '24	Oct '24
SG3 – Demountable	Machinery Yard	6m ³				
SG2 – Demountable	Machinery Yard	6m ³				
SG1 – Demountable	Machinery Yard	5m ³				
CLN1 - Demountable	Thomastown Depot	3m ³				
CLN2 - Demountable	Callan Depot	1.5m ³				
CLN3 – Demountable	Kilmaganny Depot	1.5m ³				
CLN4 – Towable	Kilkenny Depot	3m ³				
CC1 – Towable	Johnstown Depot	4.5m ³				
CC2 – Towable	Castlecomer Depot	4.5m ³				
N1 - Demountable	Listerlin Depot	3m ³				
KK1 - Demountable	Machinery Yard	3m ³				
TT1 - Demountable	Graignamanagh Depot	3.8m ³				
TT2 - Demountable	Gowran Depot	2.6m ³				
TT3 – Towable	Thomastown Depot	4.5m ³				

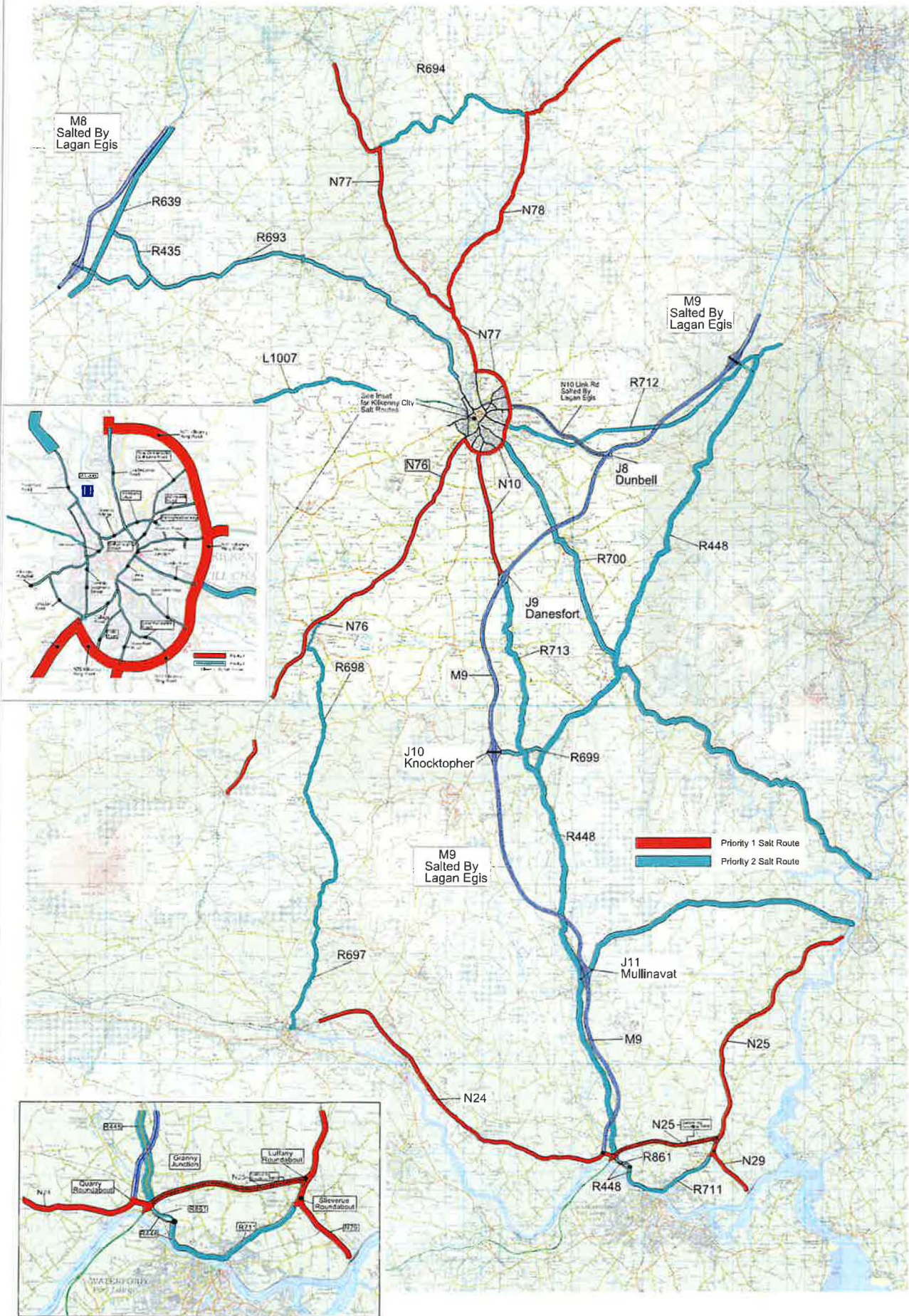
Table 9.2 Snow Ploughs & Loading Shovels

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of Next Service
86T – Loading Shovel	Machinery Yard		Regular Servicing	
101T – Manitou Teleporter	Machinery Yard		Regular Servicing	
102T – Manitou Teleporter	Newrath Depot		Regular Servicing	
77T – Manitou Teleporter	Machinery Yard		Regular Servicing	
Snowplough - SP - MY1	Machinery Yard			
SP - MY2	Machinery Yard			
SP - MY3	Machinery Yard			
SP - MY4	Machinery Yard			
SP - MY5	Machinery Yard			
SP - MY6	Machinery Yard			
SP – MY7	Machinery Yard			

9. Winter Service Plan Distribution List

Issued to	Position	Organisation	Location
Lar Power	Chief Executive	Kilkenny County Council	County Hall, Kilkenny
Tim Butler	Director of Services	Kilkenny County Council	County Hall, Kilkenny
Seamus Kavanagh	Senior Engineer Roads	Kilkenny County Council	County Hall, Kilkenny
Ian Gardner	Senior Engineer Kilkenny Municipal Area	Kilkenny County Council	City Hall
Brendan Sheehan	Executive Engineer Kilkenny Municipal Urban Area	Kilkenny County Council	City Hall
Eamon Mahon	Area Engineer Kilkenny Municipal Rural Area	Kilkenny County Council	County Hall, Kilkenny
Stan Cullen	Area Engineer Newrath Municipal Area	Kilkenny County Council	Piltown Area Office
Philippe Beubry	Area Engineer Castlecomer Municipal Area	Kilkenny County Council	Castlecomer Area Office
Declan Murphy	Area Engineer Thomastown/Callan Municipal Areas	Kilkenny County Council	Thomastown Area Office
Kieran Kelly	Machinery Yard Engineer	Kilkenny County Council	Machinery Yard
Art Hennessy	Technical Services Supervisor	Kilkenny County Council	Machinery Yard
Sinead Fanning	Health & Safety Officer	Kilkenny County Council	County Hall, Kilkenny
Ray Wickham	Senior Executive Engineer	Carlow County Council	
Paul McLoughlin	Senior Engineer	Laois County Council	
James Murray	Senior Engineer	Tipperary County Council	
Sinead Casey	Senior Engineer	Wexford County Council	
Gabriel Hynes	Senior Engineer	Waterford Council	
Stephen Smyth	Winter Maintenance Manager	National Roads Authority	
John Moore	Winter Maintenance Manager	Lagan Egis	N25 Toll Plaza
Evelyn Cusack	Head of Forecasting	Met Eireann	Glasnevin Hill, Dublin 9.
Superintendent Aidan Brennan	Traffic Corps	An Garda Siochana	Kilkenny Garda Station
Inspector Claire Kinealy	Traffic Corps	An Garda Siochana	Thomastown Garda Station

Appendix 1 - Priority 1 & Priority 2 Treatment Routes



KILKENNY COUNTY COUNCIL
Comhairle Chontae Chill Chainnigh

ROAD DESIGN SECTION
1 DEAN STREET
KILKENNY.

Rev	By	Date	Description

Tender Issue

Project: KCC Salting Routes

Component: Winter Maintenance

Title: Priority 1 & 2 Routes

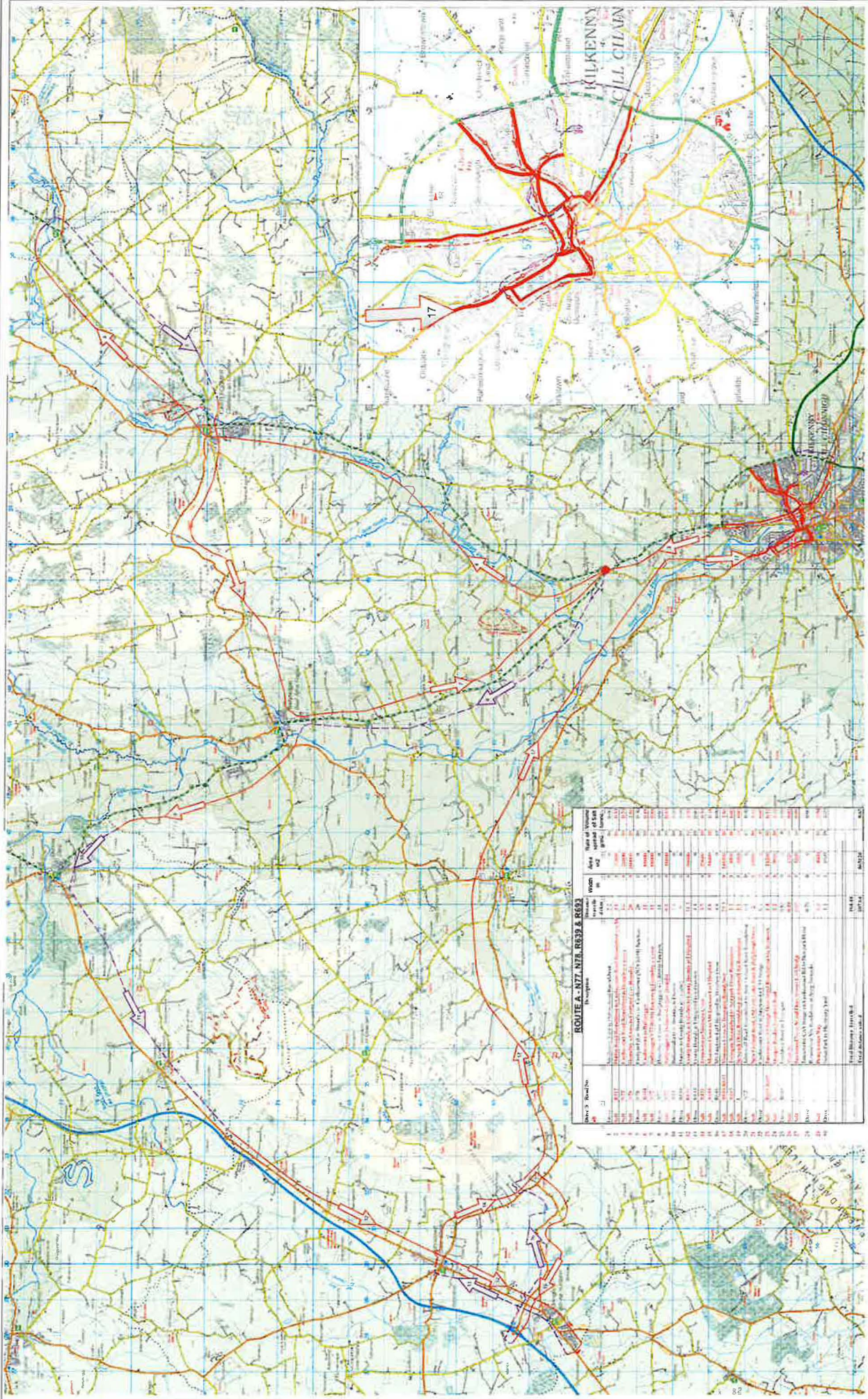
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Checked By: SW Date: October 2015

Drawing No.

KCC-WM-01



ROUTE A-N77, N78, R639 & R693

Order	Route No.	Description	Start of Winter Service	End of Winter Service	Area of Winter Service	Area of Winter Service
			km	km	km	km
1	N77	N77 to N78	1.0	1.0	1.0	1.0
2	N78	N78 to R639	1.0	1.0	1.0	1.0
3	R639	R639 to R693	1.0	1.0	1.0	1.0
4	R693	R693 to N77	1.0	1.0	1.0	1.0
5	N77	N77 to N78	1.0	1.0	1.0	1.0
6	N78	N78 to R639	1.0	1.0	1.0	1.0
7	R639	R639 to R693	1.0	1.0	1.0	1.0
8	R693	R693 to N77	1.0	1.0	1.0	1.0
9	N77	N77 to N78	1.0	1.0	1.0	1.0
10	N78	N78 to R639	1.0	1.0	1.0	1.0
11	R639	R639 to R693	1.0	1.0	1.0	1.0
12	R693	R693 to N77	1.0	1.0	1.0	1.0
13	N77	N77 to N78	1.0	1.0	1.0	1.0
14	N78	N78 to R639	1.0	1.0	1.0	1.0
15	R639	R639 to R693	1.0	1.0	1.0	1.0
16	R693	R693 to N77	1.0	1.0	1.0	1.0
17	N77	N77 to N78	1.0	1.0	1.0	1.0
18	N78	N78 to R639	1.0	1.0	1.0	1.0
19	R639	R639 to R693	1.0	1.0	1.0	1.0
20	R693	R693 to N77	1.0	1.0	1.0	1.0
21	N77	N77 to N78	1.0	1.0	1.0	1.0
22	N78	N78 to R639	1.0	1.0	1.0	1.0
23	R639	R639 to R693	1.0	1.0	1.0	1.0
24	R693	R693 to N77	1.0	1.0	1.0	1.0
25	N77	N77 to N78	1.0	1.0	1.0	1.0
26	N78	N78 to R639	1.0	1.0	1.0	1.0
27	R639	R639 to R693	1.0	1.0	1.0	1.0
28	R693	R693 to N77	1.0	1.0	1.0	1.0
29	N77	N77 to N78	1.0	1.0	1.0	1.0
30	N78	N78 to R639	1.0	1.0	1.0	1.0
31	R639	R639 to R693	1.0	1.0	1.0	1.0
32	R693	R693 to N77	1.0	1.0	1.0	1.0
33	N77	N77 to N78	1.0	1.0	1.0	1.0
34	N78	N78 to R639	1.0	1.0	1.0	1.0
35	R639	R639 to R693	1.0	1.0	1.0	1.0
36	R693	R693 to N77	1.0	1.0	1.0	1.0
37	N77	N77 to N78	1.0	1.0	1.0	1.0
38	N78	N78 to R639	1.0	1.0	1.0	1.0
39	R639	R639 to R693	1.0	1.0	1.0	1.0
40	R693	R693 to N77	1.0	1.0	1.0	1.0
41	N77	N77 to N78	1.0	1.0	1.0	1.0
42	N78	N78 to R639	1.0	1.0	1.0	1.0
43	R639	R639 to R693	1.0	1.0	1.0	1.0
44	R693	R693 to N77	1.0	1.0	1.0	1.0
45	N77	N77 to N78	1.0	1.0	1.0	1.0
46	N78	N78 to R639	1.0	1.0	1.0	1.0
47	R639	R639 to R693	1.0	1.0	1.0	1.0
48	R693	R693 to N77	1.0	1.0	1.0	1.0
49	N77	N77 to N78	1.0	1.0	1.0	1.0
50	N78	N78 to R639	1.0	1.0	1.0	1.0
51	R639	R639 to R693	1.0	1.0	1.0	1.0
52	R693	R693 to N77	1.0	1.0	1.0	1.0
53	N77	N77 to N78	1.0	1.0	1.0	1.0
54	N78	N78 to R639	1.0	1.0	1.0	1.0
55	R639	R639 to R693	1.0	1.0	1.0	1.0
56	R693	R693 to N77	1.0	1.0	1.0	1.0
57	N77	N77 to N78	1.0	1.0	1.0	1.0
58	N78	N78 to R639	1.0	1.0	1.0	1.0
59	R639	R639 to R693	1.0	1.0	1.0	1.0
60	R693	R693 to N77	1.0	1.0	1.0	1.0
61	N77	N77 to N78	1.0	1.0	1.0	1.0
62	N78	N78 to R639	1.0	1.0	1.0	1.0
63	R639	R639 to R693	1.0	1.0	1.0	1.0
64	R693	R693 to N77	1.0	1.0	1.0	1.0
65	N77	N77 to N78	1.0	1.0	1.0	1.0
66	N78	N78 to R639	1.0	1.0	1.0	1.0
67	R639	R639 to R693	1.0	1.0	1.0	1.0
68	R693	R693 to N77	1.0	1.0	1.0	1.0
69	N77	N77 to N78	1.0	1.0	1.0	1.0
70	N78	N78 to R639	1.0	1.0	1.0	1.0
71	R639	R639 to R693	1.0	1.0	1.0	1.0
72	R693	R693 to N77	1.0	1.0	1.0	1.0
73	N77	N77 to N78	1.0	1.0	1.0	1.0
74	N78	N78 to R639	1.0	1.0	1.0	1.0
75	R639	R639 to R693	1.0	1.0	1.0	1.0
76	R693	R693 to N77	1.0	1.0	1.0	1.0
77	N77	N77 to N78	1.0	1.0	1.0	1.0
78	N78	N78 to R639	1.0	1.0	1.0	1.0
79	R639	R639 to R693	1.0	1.0	1.0	1.0
80	R693	R693 to N77	1.0	1.0	1.0	1.0
81	N77	N77 to N78	1.0	1.0	1.0	1.0
82	N78	N78 to R639	1.0	1.0	1.0	1.0
83	R639	R639 to R693	1.0	1.0	1.0	1.0
84	R693	R693 to N77	1.0	1.0	1.0	1.0
85	N77	N77 to N78	1.0	1.0	1.0	1.0
86	N78	N78 to R639	1.0	1.0	1.0	1.0
87	R639	R639 to R693	1.0	1.0	1.0	1.0
88	R693	R693 to N77	1.0	1.0	1.0	1.0
89	N77	N77 to N78	1.0	1.0	1.0	1.0
90	N78	N78 to R639	1.0	1.0	1.0	1.0
91	R639	R639 to R693	1.0	1.0	1.0	1.0
92	R693	R693 to N77	1.0	1.0	1.0	1.0
93	N77	N77 to N78	1.0	1.0	1.0	1.0
94	N78	N78 to R639	1.0	1.0	1.0	1.0
95	R639	R639 to R693	1.0	1.0	1.0	1.0
96	R693	R693 to N77	1.0	1.0	1.0	1.0
97	N77	N77 to N78	1.0	1.0	1.0	1.0
98	N78	N78 to R639	1.0	1.0	1.0	1.0
99	R639	R639 to R693	1.0	1.0	1.0	1.0
100	R693	R693 to N77	1.0	1.0	1.0	1.0

KCC Salting Routes

Project: Winter Service Plan

Component: Route A-N77, N78, R639 & R693

Title: Salting Routes

Drawn By: JRS

Checked By: JRS

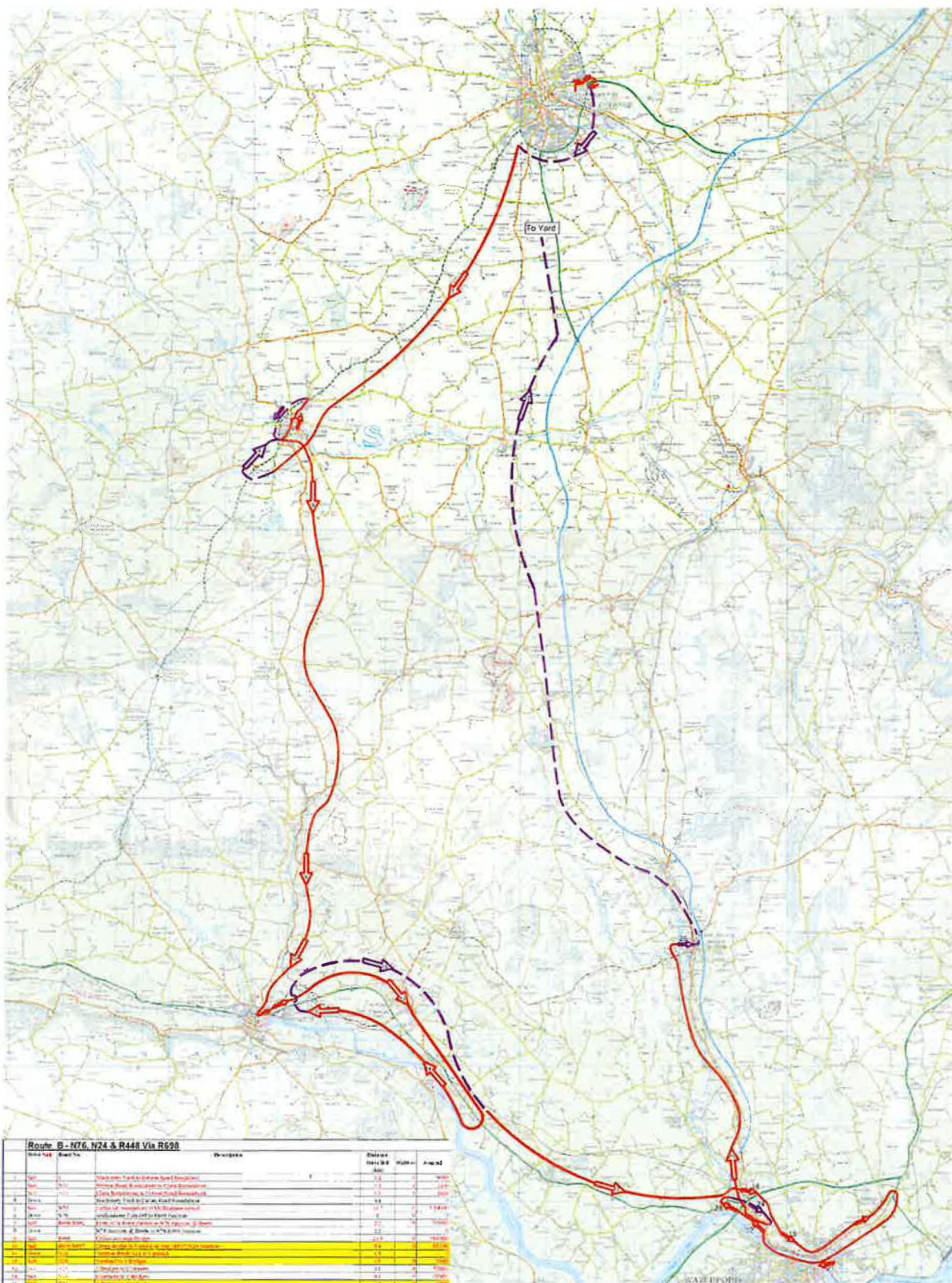
Date: October 2017

Drawing No: KCC/MS/14-01

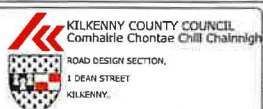
Rev	By	Date	Description

KILKENNY COUNTY COUNCIL
 Comhairle Chontae Chill Chainnigh
 ROAD DESIGN SECTION,
 1 DEAN STREET
 KILKENNY.



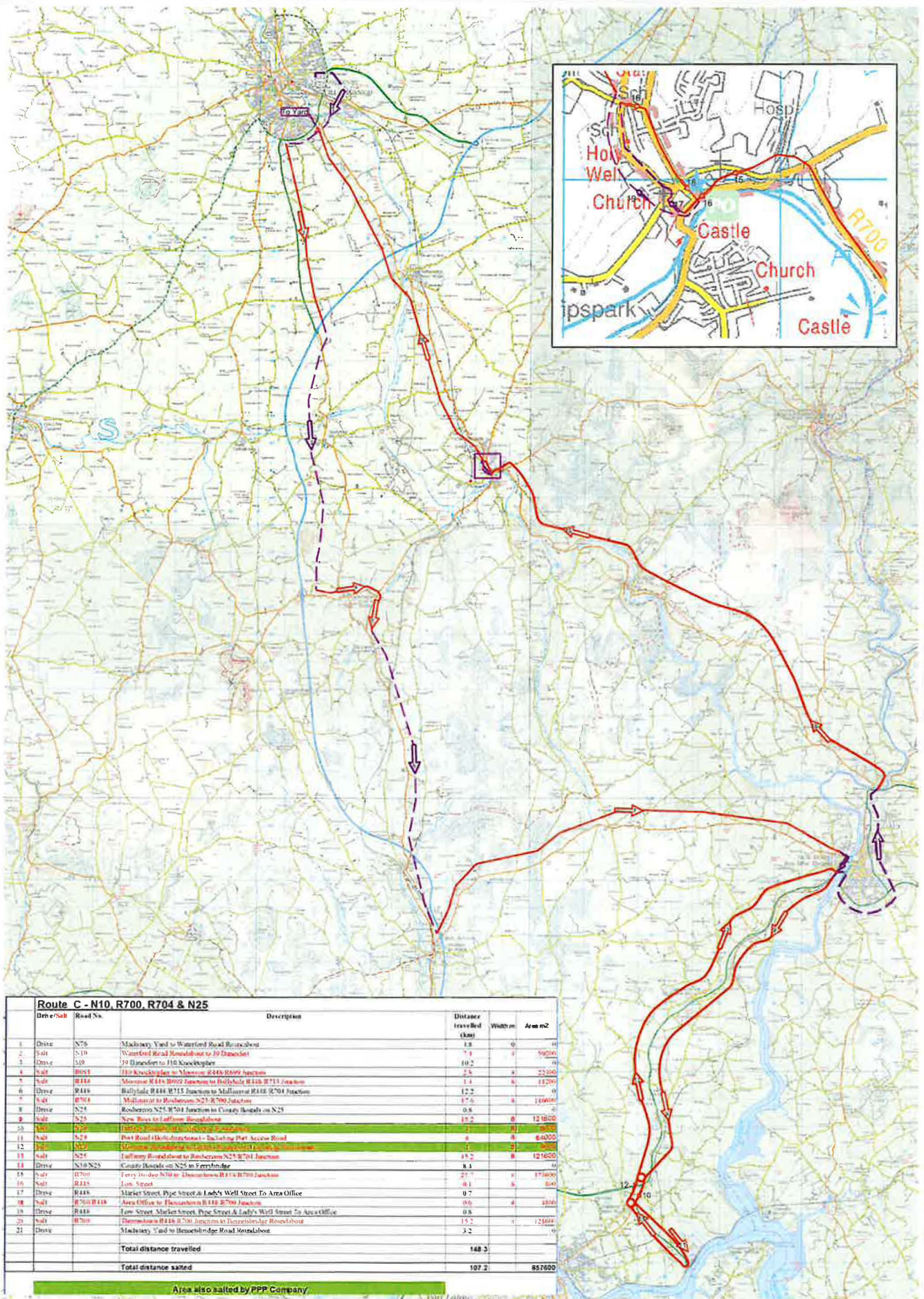


Route B - N76, N24 & R448 via R598					
Order	Route No.	Description	Distance (km)	Order	Distance (km)
1	N76	From Kilkenny to Carrigrohane	1.2	1	1.2
2	N76	From Carrigrohane to Carrigrohane	1.2	2	1.2
3	N76	From Carrigrohane to Carrigrohane	1.2	3	1.2
4	N76	From Carrigrohane to Carrigrohane	1.2	4	1.2
5	N76	From Carrigrohane to Carrigrohane	1.2	5	1.2
6	N76	From Carrigrohane to Carrigrohane	1.2	6	1.2
7	N76	From Carrigrohane to Carrigrohane	1.2	7	1.2
8	N76	From Carrigrohane to Carrigrohane	1.2	8	1.2
9	N76	From Carrigrohane to Carrigrohane	1.2	9	1.2
10	N76	From Carrigrohane to Carrigrohane	1.2	10	1.2
11	N76	From Carrigrohane to Carrigrohane	1.2	11	1.2
12	N76	From Carrigrohane to Carrigrohane	1.2	12	1.2
13	N76	From Carrigrohane to Carrigrohane	1.2	13	1.2
14	N76	From Carrigrohane to Carrigrohane	1.2	14	1.2
15	N76	From Carrigrohane to Carrigrohane	1.2	15	1.2
16	N76	From Carrigrohane to Carrigrohane	1.2	16	1.2
17	N76	From Carrigrohane to Carrigrohane	1.2	17	1.2
18	N76	From Carrigrohane to Carrigrohane	1.2	18	1.2
19	N76	From Carrigrohane to Carrigrohane	1.2	19	1.2
20	N76	From Carrigrohane to Carrigrohane	1.2	20	1.2
21	N76	From Carrigrohane to Carrigrohane	1.2	21	1.2
22	N76	From Carrigrohane to Carrigrohane	1.2	22	1.2
23	N76	From Carrigrohane to Carrigrohane	1.2	23	1.2
24	N76	From Carrigrohane to Carrigrohane	1.2	24	1.2
25	N76	From Carrigrohane to Carrigrohane	1.2	25	1.2
26	N76	From Carrigrohane to Carrigrohane	1.2	26	1.2
27	N76	From Carrigrohane to Carrigrohane	1.2	27	1.2
28	N76	From Carrigrohane to Carrigrohane	1.2	28	1.2
29	N76	From Carrigrohane to Carrigrohane	1.2	29	1.2
30	N76	From Carrigrohane to Carrigrohane	1.2	30	1.2
31	N76	From Carrigrohane to Carrigrohane	1.2	31	1.2
32	N76	From Carrigrohane to Carrigrohane	1.2	32	1.2
33	N76	From Carrigrohane to Carrigrohane	1.2	33	1.2
34	N76	From Carrigrohane to Carrigrohane	1.2	34	1.2
35	N76	From Carrigrohane to Carrigrohane	1.2	35	1.2
36	N76	From Carrigrohane to Carrigrohane	1.2	36	1.2
37	N76	From Carrigrohane to Carrigrohane	1.2	37	1.2
38	N76	From Carrigrohane to Carrigrohane	1.2	38	1.2
39	N76	From Carrigrohane to Carrigrohane	1.2	39	1.2
40	N76	From Carrigrohane to Carrigrohane	1.2	40	1.2
41	N76	From Carrigrohane to Carrigrohane	1.2	41	1.2
42	N76	From Carrigrohane to Carrigrohane	1.2	42	1.2
43	N76	From Carrigrohane to Carrigrohane	1.2	43	1.2
44	N76	From Carrigrohane to Carrigrohane	1.2	44	1.2
45	N76	From Carrigrohane to Carrigrohane	1.2	45	1.2
46	N76	From Carrigrohane to Carrigrohane	1.2	46	1.2
47	N76	From Carrigrohane to Carrigrohane	1.2	47	1.2
48	N76	From Carrigrohane to Carrigrohane	1.2	48	1.2
49	N76	From Carrigrohane to Carrigrohane	1.2	49	1.2
50	N76	From Carrigrohane to Carrigrohane	1.2	50	1.2
51	N76	From Carrigrohane to Carrigrohane	1.2	51	1.2
52	N76	From Carrigrohane to Carrigrohane	1.2	52	1.2
53	N76	From Carrigrohane to Carrigrohane	1.2	53	1.2
54	N76	From Carrigrohane to Carrigrohane	1.2	54	1.2
55	N76	From Carrigrohane to Carrigrohane	1.2	55	1.2
56	N76	From Carrigrohane to Carrigrohane	1.2	56	1.2
57	N76	From Carrigrohane to Carrigrohane	1.2	57	1.2
58	N76	From Carrigrohane to Carrigrohane	1.2	58	1.2
59	N76	From Carrigrohane to Carrigrohane	1.2	59	1.2
60	N76	From Carrigrohane to Carrigrohane	1.2	60	1.2
61	N76	From Carrigrohane to Carrigrohane	1.2	61	1.2
62	N76	From Carrigrohane to Carrigrohane	1.2	62	1.2
63	N76	From Carrigrohane to Carrigrohane	1.2	63	1.2
64	N76	From Carrigrohane to Carrigrohane	1.2	64	1.2
65	N76	From Carrigrohane to Carrigrohane	1.2	65	1.2
66	N76	From Carrigrohane to Carrigrohane	1.2	66	1.2
67	N76	From Carrigrohane to Carrigrohane	1.2	67	1.2
68	N76	From Carrigrohane to Carrigrohane	1.2	68	1.2
69	N76	From Carrigrohane to Carrigrohane	1.2	69	1.2
70	N76	From Carrigrohane to Carrigrohane	1.2	70	1.2
71	N76	From Carrigrohane to Carrigrohane	1.2	71	1.2
72	N76	From Carrigrohane to Carrigrohane	1.2	72	1.2
73	N76	From Carrigrohane to Carrigrohane	1.2	73	1.2
74	N76	From Carrigrohane to Carrigrohane	1.2	74	1.2
75	N76	From Carrigrohane to Carrigrohane	1.2	75	1.2
76	N76	From Carrigrohane to Carrigrohane	1.2	76	1.2
77	N76	From Carrigrohane to Carrigrohane	1.2	77	1.2
78	N76	From Carrigrohane to Carrigrohane	1.2	78	1.2
79	N76	From Carrigrohane to Carrigrohane	1.2	79	1.2
80	N76	From Carrigrohane to Carrigrohane	1.2	80	1.2
81	N76	From Carrigrohane to Carrigrohane	1.2	81	1.2
82	N76	From Carrigrohane to Carrigrohane	1.2	82	1.2
83	N76	From Carrigrohane to Carrigrohane	1.2	83	1.2
84	N76	From Carrigrohane to Carrigrohane	1.2	84	1.2
85	N76	From Carrigrohane to Carrigrohane	1.2	85	1.2
86	N76	From Carrigrohane to Carrigrohane	1.2	86	1.2
87	N76	From Carrigrohane to Carrigrohane	1.2	87	1.2
88	N76	From Carrigrohane to Carrigrohane	1.2	88	1.2
89	N76	From Carrigrohane to Carrigrohane	1.2	89	1.2
90	N76	From Carrigrohane to Carrigrohane	1.2	90	1.2
91	N76	From Carrigrohane to Carrigrohane	1.2	91	1.2
92	N76	From Carrigrohane to Carrigrohane	1.2	92	1.2
93	N76	From Carrigrohane to Carrigrohane	1.2	93	1.2
94	N76	From Carrigrohane to Carrigrohane	1.2	94	1.2
95	N76	From Carrigrohane to Carrigrohane	1.2	95	1.2
96	N76	From Carrigrohane to Carrigrohane	1.2	96	1.2
97	N76	From Carrigrohane to Carrigrohane	1.2	97	1.2
98	N76	From Carrigrohane to Carrigrohane	1.2	98	1.2
99	N76	From Carrigrohane to Carrigrohane	1.2	99	1.2
100	N76	From Carrigrohane to Carrigrohane	1.2	100	1.2



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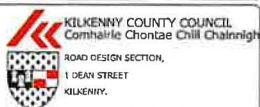
Project:	KCC Sailing Routes
Component:	Winter Service Plan
Title:	Route B - N76, N24, R448 via R598
Designed By:	DA
Drawn By:	MS
Checked By:	SW
File Name:	Route B - N76, N24, R448 via R598
Scale:	NTS
Date:	October 2015
Drawing No:	KCC/INMP 18.9-02



Route C - N10, R700, R704 & N25

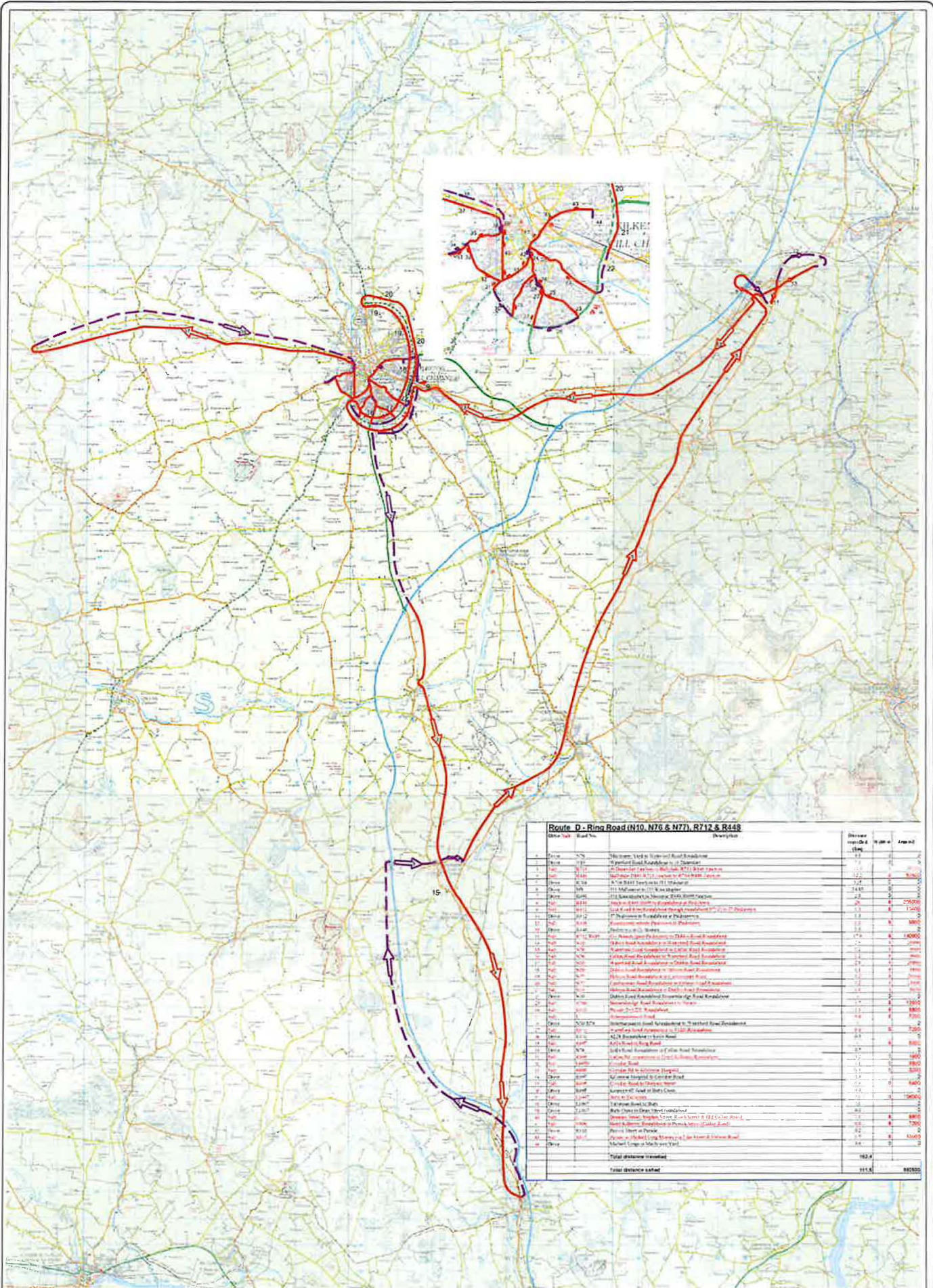
Order	Side	Road No.	Description	Distance (km)	Width (m)	Area (m ²)
1	Drive	N76	Machiney Yard to Waterford Road Roundabout	1.8	10	18
2	Salit	N10	Waterford Road Roundabout to JJ Dunne's	1.1	10	11
3	Drive	N10	JJ Dunne's to H10 Knockdrough	10.2	10	102
4	Salit	R700	H10 Knockdrough to Mallow R444 R700 Junction	2.5	10	25
5	Salit	R444	Mallow R444 R700 Junction to Ballyhale R444 R713 Junction	1.1	10	11
6	Drive	R444	Ballyhale R444 R713 Junction to Mullingar R444 R704 Junction	12.2	10	122
7	Salit	R704	Mullingar to Roscommon N25 R704 Junction	17.6	10	176
8	Drive	N25	Roscommon N25 R704 Junction to County Roscommon N25	0.8	10	8
9	Salit	N25	New Ross to Lifford Roundabout	15.2	10	152
10	Salit	N25	Lifford Roundabout to Lifford Junction	1.1	10	11
11	Salit	N25	Post Road (Lifford Junction) to Lifford Junction	0.8	10	8
12	Salit	N25	Lifford Junction to Lifford Junction	1.1	10	11
13	Salit	N25	Lifford Junction to Lifford Junction	1.1	10	11
14	Drive	N25	Lifford Junction to Lifford Junction	1.1	10	11
15	Drive	N25	Lifford Junction to Lifford Junction	1.1	10	11
16	Salit	R700	Ferry House N10 to Thurles R444 R700 Junction	27.5	10	275
17	Salit	R444	Thurles R444 R700 Junction to Thurles Junction	0.1	10	1
18	Drive	R444	Thurles Junction to Thurles Junction	0.7	10	7
19	Drive	R444	Thurles Junction to Thurles Junction	0.6	10	6
20	Salit	R700	Thurles Junction to Thurles Junction	0.8	10	8
21	Drive	R700	Thurles Junction to Thurles Junction	15.2	10	152
22	Drive	R700	Thurles Junction to Thurles Junction	3.2	10	32
Total distance travelled				148.3		
Total distance salted				107.2		851000

Area also salted by PPP Company



Rev	By	Date	Description

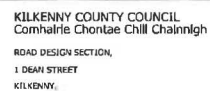
Project	KCC - Salted Routes		
Component	Water Service Plan		
File Name	Route C - N10, R700, R704 & N25		
Designed By	SA	File Name	QTS
Drawn By	SA	Scale	1:1000
Checked By	SA	Date	October 2014
Drawing No.		KCC-WSP/152-03	



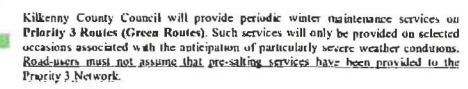
Route D - Ring Road (N10, N76 & N77, R12 & R448)					Distance		
Order	Start	End	Distance	Direction	km	mi	Area
1	1000	1001	0.1	North	0.1	0.06	0.000
2	1001	1002	0.1	North	0.1	0.06	0.000
3	1002	1003	0.1	North	0.1	0.06	0.000
4	1003	1004	0.1	North	0.1	0.06	0.000
5	1004	1005	0.1	North	0.1	0.06	0.000
6	1005	1006	0.1	North	0.1	0.06	0.000
7	1006	1007	0.1	North	0.1	0.06	0.000
8	1007	1008	0.1	North	0.1	0.06	0.000
9	1008	1009	0.1	North	0.1	0.06	0.000
10	1009	1010	0.1	North	0.1	0.06	0.000
11	1010	1011	0.1	North	0.1	0.06	0.000
12	1011	1012	0.1	North	0.1	0.06	0.000
13	1012	1013	0.1	North	0.1	0.06	0.000
14	1013	1014	0.1	North	0.1	0.06	0.000
15	1014	1015	0.1	North	0.1	0.06	0.000
16	1015	1016	0.1	North	0.1	0.06	0.000
17	1016	1017	0.1	North	0.1	0.06	0.000
18	1017	1018	0.1	North	0.1	0.06	0.000
19	1018	1019	0.1	North	0.1	0.06	0.000
20	1019	1020	0.1	North	0.1	0.06	0.000
21	1020	1021	0.1	North	0.1	0.06	0.000
22	1021	1022	0.1	North	0.1	0.06	0.000
23	1022	1023	0.1	North	0.1	0.06	0.000
24	1023	1024	0.1	North	0.1	0.06	0.000
25	1024	1025	0.1	North	0.1	0.06	0.000
26	1025	1026	0.1	North	0.1	0.06	0.000
27	1026	1027	0.1	North	0.1	0.06	0.000
28	1027	1028	0.1	North	0.1	0.06	0.000
29	1028	1029	0.1	North	0.1	0.06	0.000
30	1029	1030	0.1	North	0.1	0.06	0.000
31	1030	1031	0.1	North	0.1	0.06	0.000
32	1031	1032	0.1	North	0.1	0.06	0.000
33	1032	1033	0.1	North	0.1	0.06	0.000
34	1033	1034	0.1	North	0.1	0.06	0.000
35	1034	1035	0.1	North	0.1	0.06	0.000
36	1035	1036	0.1	North	0.1	0.06	0.000
37	1036	1037	0.1	North	0.1	0.06	0.000
38	1037	1038	0.1	North	0.1	0.06	0.000
39	1038	1039	0.1	North	0.1	0.06	0.000
40	1039	1040	0.1	North	0.1	0.06	0.000
41	1040	1041	0.1	North	0.1	0.06	0.000
42	1041	1042	0.1	North	0.1	0.06	0.000
43	1042	1043	0.1	North	0.1	0.06	0.000
44	1043	1044	0.1	North	0.1	0.06	0.000
45	1044	1045	0.1	North	0.1	0.06	0.000
46	1045	1046	0.1	North	0.1	0.06	0.000
47	1046	1047	0.1	North	0.1	0.06	0.000
48	1047	1048	0.1	North	0.1	0.06	0.000
49	1048	1049	0.1	North	0.1	0.06	0.000
50	1049	1050	0.1	North	0.1	0.06	0.000
51	1050	1051	0.1	North	0.1	0.06	0.000
52	1051	1052	0.1	North	0.1	0.06	0.000
53	1052	1053	0.1	North	0.1	0.06	0.000
54	1053	1054	0.1	North	0.1	0.06	0.000
55	1054	1055	0.1	North	0.1	0.06	0.000
56	1055	1056	0.1	North	0.1	0.06	0.000
57	1056	1057	0.1	North	0.1	0.06	0.000
58	1057	1058	0.1	North	0.1	0.06	0.000
59	1058	1059	0.1	North	0.1	0.06	0.000
60	1059	1060	0.1	North	0.1	0.06	0.000
61	1060	1061	0.1	North	0.1	0.06	0.000
62	1061	1062	0.1	North	0.1	0.06	0.000
63	1062	1063	0.1	North	0.1	0.06	0.000
64	1063	1064	0.1	North	0.1	0.06	0.000
65	1064	1065	0.1	North	0.1	0.06	0.000
66	1065	1066	0.1	North	0.1	0.06	0.000
67	1066	1067	0.1	North	0.1	0.06	0.000
68	1067	1068	0.1	North	0.1	0.06	0.000
69	1068	1069	0.1	North	0.1	0.06	0.000
70	1069	1070	0.1	North	0.1	0.06	0.000
71	1070	1071	0.1	North	0.1	0.06	0.000
72	1071	1072	0.1	North	0.1	0.06	0.000
73	1072	1073	0.1	North	0.1	0.06	0.000
74	1073	1074	0.1	North	0.1	0.06	0.000
75	1074	1075	0.1	North	0.1	0.06	0.000
76	1075	1076	0.1	North	0.1	0.06	0.000
77	1076	1077	0.1	North	0.1	0.06	0.000
78	1077	1078	0.1	North	0.1	0.06	0.000
79	1078	1079	0.1	North	0.1	0.06	0.000
80	1079	1080	0.1	North	0.1	0.06	0.000
81	1080	1081	0.1	North	0.1	0.06	0.000
82	1081	1082	0.1	North	0.1	0.06	0.000
83	1082	1083	0.1	North	0.1	0.06	0.000
84	1083	1084	0.1	North	0.1	0.06	0.000
85	1084	1085	0.1	North	0.1	0.06	0.000
86	1085	1086	0.1	North	0.1	0.06	0.000
87	1086	1087	0.1	North	0.1	0.06	0.000
88	1087	1088	0.1	North	0.1	0.06	0.000
89	1088	1089	0.1	North	0.1	0.06	0.000
90	1089	1090	0.1	North	0.1	0.06	0.000
91	1090	1091	0.1	North	0.1	0.06	0.000
92	1091	1092	0.1	North	0.1	0.06	0.000
93	1092	1093	0.1	North	0.1	0.06	0.000
94	1093	1094	0.1	North	0.1	0.06	0.000
95	1094	1095	0.1	North	0.1	0.06	0.000
96	1095	1096	0.1	North	0.1	0.06	0.000
97	1096	1097	0.1	North	0.1	0.06	0.000
98	1097	1098	0.1	North	0.1	0.06	0.000
99	1098	1099	0.1	North	0.1	0.06	0.000
100	1099	1100	0.1	North	0.1	0.06	0.000
101	1100	1101	0.1	North	0.1	0.06	0.000
102	1101	1102	0.1	North	0.1	0.06	0.000
103	1102	1103	0.1	North	0.1	0.06	0.000
104	1103	1104	0.1	North	0.1	0.06	0.000
105	1104	1105	0.1	North	0.1	0.06	0.000
106	1105	1106	0.1	North	0.1	0.06	0.000
107	1106	1107	0.1	North	0.1	0.06	0.000
108	1107	1108	0.1	North	0.1	0.06	0.000
109	1108	1109	0.1	North	0.1	0.06	0.000
110	1109	1110	0.1	North	0.1	0.06	0.000
111	1110	1111	0.1	North	0.1	0.06	0.000
112	1111	1112	0.1	North	0.1	0.06	0.000
113	1112	1113	0.1	North	0.1	0.06	0.000
114	1113	1114	0.1	North	0.1	0.06	0.000
115	1114	1115	0.1	North	0.1	0.06	0.000
116	1115	1116	0.1	North	0.1	0.06	0.000
117	1116	1117	0.1	North	0.1	0.06	0.000
118	1117	1118	0.1	North	0.1	0.06	0.000
119	1118	1119	0.1	North	0.1	0.06	0.000
120	1119	1120	0.1	North	0.1	0.06	0.000
121	1120	1121	0.1	North	0.1	0.06	0.000
122	1121	1122	0.1	North	0.1	0.06	0.000
123	1122	1123	0.1	North	0.1	0.06	0.000
124	1123	1124	0.1	North	0.1	0.06	0.000
125	1124	1125	0.1	North	0.1	0.06	0.000
126	1125	1126	0.1	North	0.1	0.06	0.000
127	1126	1127	0.1	North	0.1	0.06	0.000
128	1127	1128	0.1	North	0.1	0.06	0.000
129	1128	1129	0.1	North	0.1	0.06	0.000
130	1129	1130	0.1	North	0.1	0.06	0.000
131	1130	1131	0.1	North	0.1	0.06	0.000
132	1131	1132	0.1	North	0.1	0.06	0.000
133	1132	1133	0.1	North	0.1	0.06	0.000
134	1133	1134	0.1	North	0.1	0.06	0.000
135	1134	1135	0.1	North	0.1	0.06	0.000
136	1135	1136	0.1	North	0.1	0.06	0.000
137	1136	1137	0.1	North	0.1	0.06	0.000
138	1137	1138	0.1	North	0.1	0.06	0.000
139	1138	1139	0.1	North	0.1	0.06	0.000
140	1139	1140	0.1	North	0.1	0.06	0.000
141	1140	1141	0.1	North	0.1	0.06	0.000
142	1141	1142	0.1	North	0.1	0.06	0.000
143	1142	1143	0.1	North	0.1	0.06	0.000
144	1143	1144	0.1	North	0.1	0.06	0.000
145	1144	1145	0.1	North	0.1	0.06	0.000
146	1145	1146	0.1	North	0.1	0.06	0.000
147	1146	1147	0.1	North	0.1	0.06	0.000
148	1147	1148	0.1	North	0.1	0.06	0.000
149	1148	1149	0.1	North	0.1	0.06	0.000
150	1149	1150	0.1	North	0.1	0.06	0.000
151	1150	1151	0.1	North	0.1	0.06	0.000
152	1151	1152	0.1	North	0.1	0.06	0.000
153	1152	1153	0.1	North	0.1	0.06	0.000
154	1153	1154	0.1	North	0.1	0.06	0.000
155	1154	1155	0.1	North	0.1	0.06	0.000
156	1155	1156	0.1	North	0.1	0.06	0.000
157	1156	1157	0.1	North	0.1	0.06	0.000
158	1157	1158	0.1	North	0.1	0.06	0.000
159	1158	1159	0.1	North	0.1	0.06	0.000
160	1159	1160	0.1	North	0.1	0.06	0.000
161	1160	1161	0.1	North	0.1	0.06	0.000
162	1161	1162	0.1	North	0.1	0.06	0.000
163	1162	1163	0.1	North	0.1	0.06	0.000
164	1163	1164	0.1	North	0.1	0.06	0.000
165	1164	1165	0.1	North	0.1	0.06	0.000
166	1165	1166	0.1	North	0.1	0.06	0.000
167	1166	1167	0.1				

Appendix 2 - Priority 3

Treatment Routes

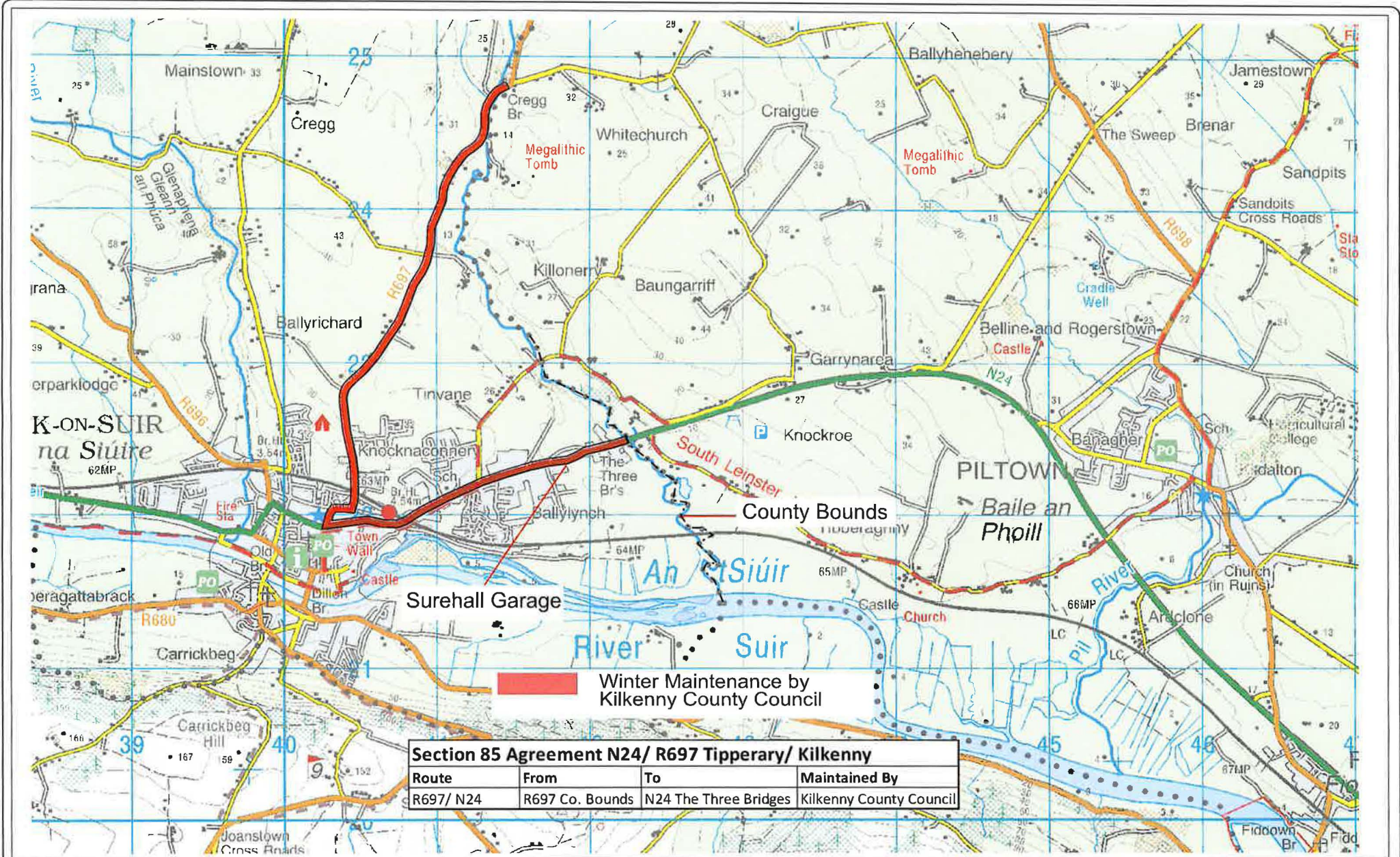


Project: KCC Soling Hurdles		Drawing No. KCC-WMP-02	
Description: Winter Maintenance		Scale: NTS	
Title: Priority 3 Routes Caddiscombe Area		Date: October 2006	
Designed By: SA	File Name:		
Drawn By: HS	Scale:		
Checked By: JOP	Date:		



Project:		KCC Saltling Routes	
Component:		Winter Maintenance	
Title:		Priority 3 Routes Pileown Area	
Designed By: SA	File Name:	Drawing No. KCC-WMP3-04	
Drawn By: HS	Scale: NTS		
Checked By: SW	Date: October 3/2005		

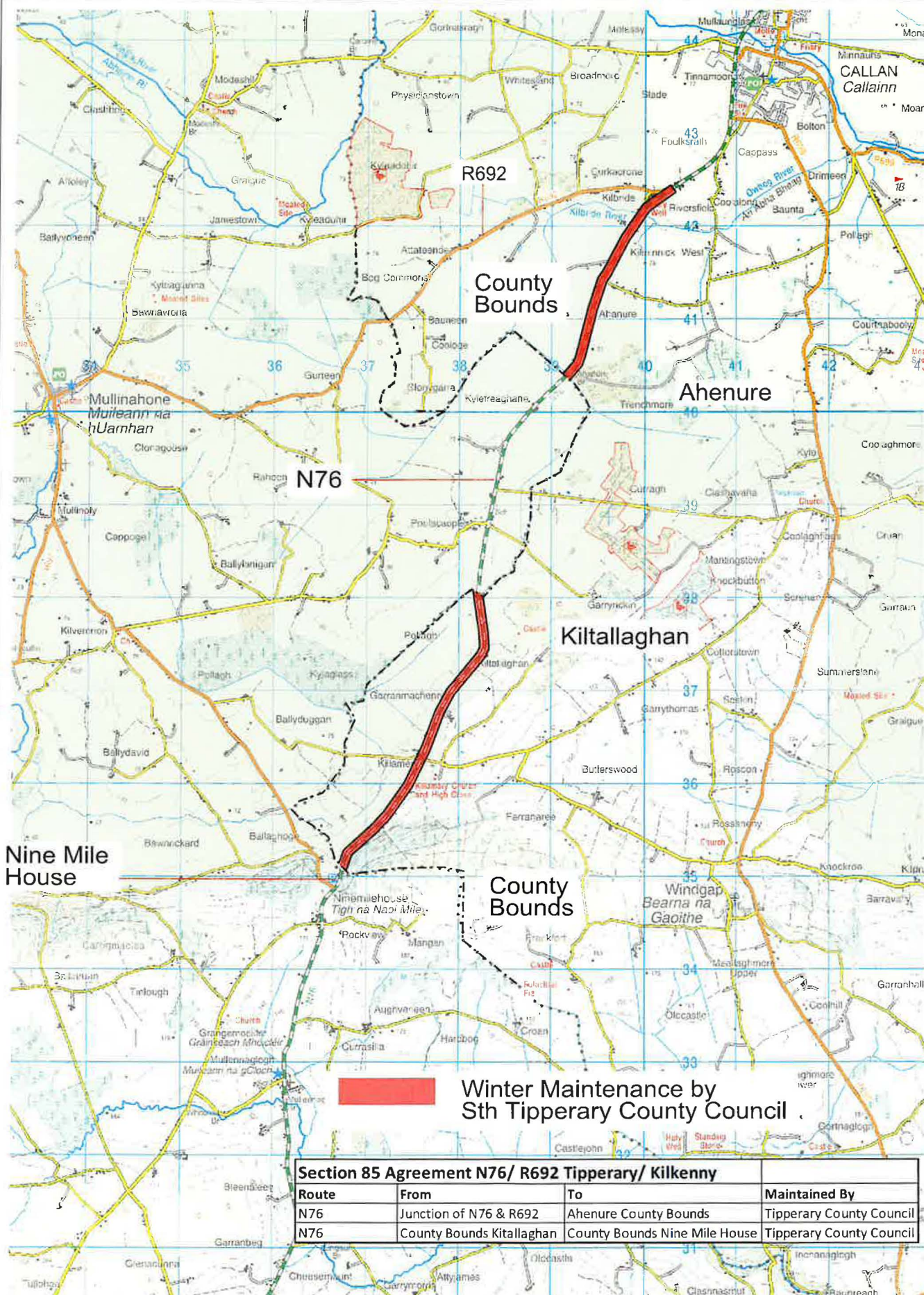
Appendix 3 - Section 85 - **Treatment Routes Maps**



KILKENNY COUNTY COUNCIL
Comhairle Chontae Chill Chainnigh
ROAD DESIGN SECTION
1 DEAN STREET
KILKENNY

Rev	By	Date	Description

Project:	KCC Salting Routes		
Component:	Winter Maintenance		
Tin:	Section 85 Tipperary County Council		
Designed By:	SA	File Name:	
Drawn By:	HS	Scale:	NBS
Checked By:	SW	Date:	October 2015
Drawing No:			KCC-WM405



Winter Maintenance by
Sth Tipperary County Council

Section 85 Agreement N76/ R692 Tipperary/ Kilkenny

Route	From	To	Maintained By
N76	Junction of N76 & R692	Ahenure County Bounds	Tipperary County Council
N76	County Bounds Kiltallaghan	County Bounds Nine Mile House	Tipperary County Council



KILKENNY COUNTY COUNCIL
Comhairle Chontae Chill Chainnigh
ROAD DESIGN SECTION,
1 DEAN STREET
KILKENNY.

Rev	By	Date	Description

Project:	KCC Safety Routes			Drawing No: KCC-WM-01
Component:	Winter Maintenance			
Title:	Section 85 Tipperary County Council			
Designed By:	SA	File Name:		
Drawn By:	HS	Scale:	NTS	
Checked By:	SW	Date:	October 2015	

