



GUIDELINES FOR SETTING AND MANAGING SPEED LIMITS IN IRELAND

'The Guidelines' – An Overview

'THE GUIDELINES'

THE MAIN CHAPTERS

INTRODUCTION 1 →

- When addressing road safety issues a reduced SSL should not be the immediate response;
- Guidelines are MANDATORY – by Ministerial Direction;
- Trained/competent to use & Chartered if 'signing off' /report to Elected Members;
- LA's & TII review @ 5yr intervals;
- Can also review when deemed appropriate/necessary;
- Keep everything mapped on the MapRoad Pavement Management System;
- Have Bye-laws/RWSLO's posted on www.speedlimits.ie

'THE GUIDELINES'

1 INTRODUCTION

STRUCTURE OF SPEED LIMITS 2 →

THE MAIN CHAPTERS

- Sets out the range of speed limits available



DEFAULTS



Motorway



Regionals and Locals



Nationals



Built-up area



Alt. sign for 80 km/h on
single lane LT's and LS's

SPECIALS, VARIABLE AND PERIODIC SPEED LIMITS

All values

CAUTIONARY SPEED LIMITS AT ROAD WORKS

Values ending in 5 i.e. 75, 65, 55, 45, 35, 25 km/h

'THE GUIDELINES'

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2 STRUCTURE OF SPEED LIMITS

MANAGING SPEED LIMITS 3 →

THE MAIN CHAPTERS

- Responsibility with LA/Elected Members (Reserved Function)
- LA and TII to review their speed limits every 5 years
- Don't rely on Default Speed Limits – set appropriate limits

T

120 km/h on duals

I

100 km/h on singles only where appropriate (stage 1)

I

80 km/h on singles where appropriate

L

80 km/h on singles where appropriate

A

100 km/h on singles where appropriate (e.g. former Nat's)

80 km/h Default when appropriate (i.e. review 60 km/h SSL)

- MapRoad – Inventories & monitor.
- Identify inappropriate signs on the network and remove
- Queries from public (separate from Appeals)

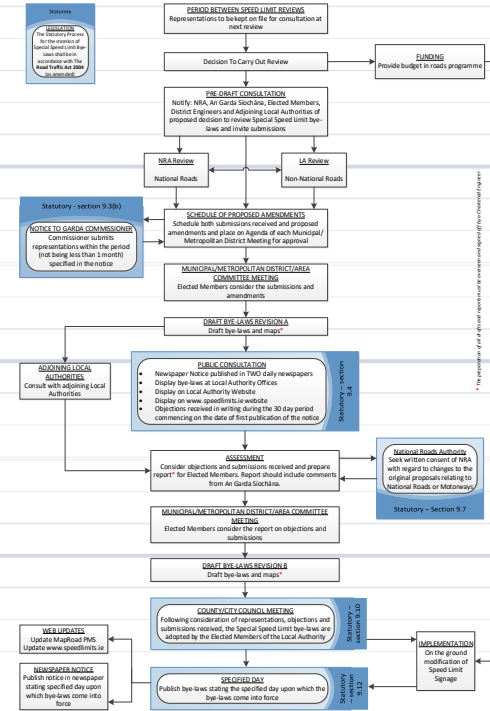
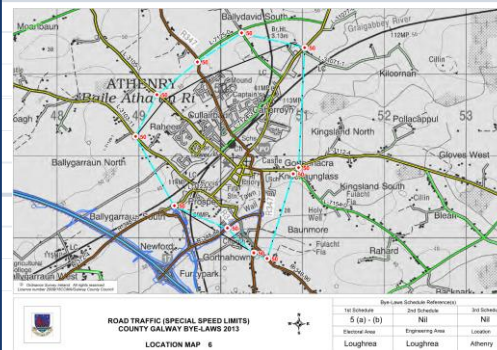
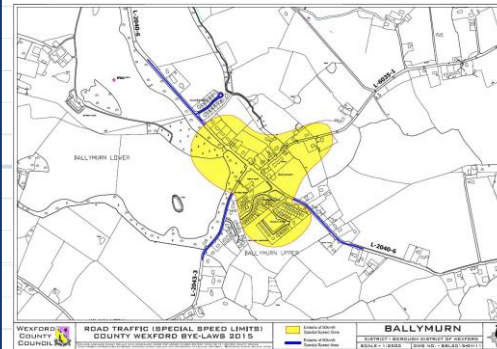
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THE MAKING OF SPEED LIMIT BYE-LAWS 4 →

THE MAIN CHAPTERS

- Advice to those making bye-laws
- Examples of existing bye-laws
- Illustrations of map based bye-laws (zones / road by road)
- Flowchart of the process



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THE CONTEXT FOR SPEED LIMITS **5** →

THE MAIN CHAPTERS

- Speed and Collision Risk

Driver perception / speed choice / risk assessment >
reduced safety

- Self-explaining roads

(speed limits should be supported by engineering measures that elicit safe and appropriate behaviour through designs that evoke correct expectations from road users [change in road character])

- Reducing speed limits unsuccessful without other measures

Engineering, Enforcement, Speed management strategy



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SETTING SPEED LIMITS – GENERAL **6** →

THE MAIN CHAPTERS

6.1

Default
100 km/h



Is this ok?

Are all the roads on the left suitable for 100 km/h speed limit?

Are all the roads on the right suitable for 80 km/h speed limit?

NO

This is why we must not rely on Default Speed Limits

Default
80 km/h



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SETTING SPEED LIMITS – GENERAL **6** →




THE MAIN CHAPTERS

6.2

WHY NOT?

ONE SIZE DOES NOT FIT ALL

- Approximate Length of Road Network : 100,000 km

Motorway	1000 km	1%	→	
Nat. Primary	1843 km	2%	→	
Nat. Secondary	2683 km	3%	}	 (94)%
Regional	11,600 km	12%		
Local Primary	82,000 km	82%		
Local Secondary				
Local Tertiary				

- Variations in cross sections of the same road type causes inconsistency in the network
- Find a best fit for the network by:
 1. Not relying on the Default Speed Limit
 2. Using the practical geometry of the road

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SETTING SPEED LIMITS – GENERAL **6** →

THE MAIN CHAPTERS

6.3

■ Isolated Road Safety locations

- Immediate response should not be to just change speed limit
- Initially, engineering measures should be considered;

Review signage

Road markings

Vehicle Activated Signs

Footway/Cycleway and Public lighting



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THE MAIN CHAPTERS

6.4



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SETTING SPEED LIMITS – GENERAL **6** →

THE MAIN CHAPTERS

6.5

- Don't use a SSL to solve isolated hazards – single road junction or bend



Consult Traffic Signs Manual
Chapter 6 (Warning Signs)
Chapter 7 (Road Markings)

- As a mechanism to solve planning issues;
 - to allow additional development
 - to provide additional accesses due to sight lines

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SETTING SPEED LIMITS – DETAILED **7** →

THE MAIN CHAPTERS








7.1

- Considers each Road Type and circumstances where Special Speed Limits may apply

■ MOTORWAYS

- Rural Roads (**single** and dual carriageways)
- Urban Roads



MOTORWAYS		
Default Speed Limit		
		
Applies to Motorways generally		
Motorway Options (including ramps and slip roads)		
		
		

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SETTING SPEED LIMITS – DETAILED **7** →

THE MAIN CHAPTERS

7.2

- Debatable whether some 100 km/h roads should be 80 km/h or vice versa.
- Chapter 7 gives better indication of what is an appropriate cross-section for particular speeds and introduces a very simple check.



SINGLE CARRIAGEWAY	
Default Speed Limits	
	
National	Regional & Local
Applies to Single Carriageways in Rural areas	



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SETTING SPEED LIMITS – DETAILED **7** →

THE MAIN CHAPTERS

7.3

STAGE 1 ASSESSMENT

SPEED LIMIT (km/h)	PAVED ROAD WIDTH
80	Less than or equal to 7.0 m
100	Greater than 7.0 m

- Based on average width over minimum length of 3km
- Paved Road Width = Traffic Lanes + Hard Shoulder/Strips (but not on-road cycle tracks)

- Stage 1 Assessment devised by evaluating 32 NS routes

Routes analysed (32)

N51 - Drogheda to Delvin	N71 - Killarney - Cork
N52 - Dundalk to Nenagh	N72 - Killorglin - Dungarvan (area)
N53 - Dundalk to Castleblayney	N73 - Mallow - Mitchelstown
N54 - Monaghan - N3 (Butler's Bridge)	N74 - Tipperary - Cashel
N55 - Athlone - Cavan	N75 - Thurles - Twomileborris
N56 - Letterkenny - Donegal Town	N76 - Kilkenny - Clonmel
N58 - Ballina - N5 (Ballyvary)	N77 - Durrow* - Kilkenny
N59 - Ballysadare - Galway	N80 - Moate* - Enniscorthy
N60 - Castlebar - Roscommon	N81 - Dublin* - Ballon
N61 - Roscommon - Athlone	N83 - Tuam - N17
N62 - Athlone - Horse and Jockey	N84 - Galway - Castlebar
N63 - Galway - Longford	N85 - Ennistymon - Ennis
N65 - Loughrea (area) - Borris-O-Kane	N86 - Tralee - Dingle
N66 - Loughrea - Gort	N87 - Belturbet - Ballinlough
N67 - Tarbert - Kilcolgan	
N68 - Kilrush - Ennis	
N69 - Tralee - Limerick	
N70 - Tralee - Kenmare	

National Secondary Routes			
	Direction 1	Direction 2	Average
Length (km)	2604.92	2605.74	2605.33
Ave Paved Width (m)	3.65	3.64	3.64
Paved Width < 3.5m	58.60%	58.50%	58.55%
Paved Width > 3.5m	41.40%	41.50%	41.45%
Total (km) < 3.5m	1526.57	1524.48	1525.52
Total (km) > 3.5m	1078.36	1081.26	1079.81

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THE MAIN CHAPTERS

7.4

STAGE 2 ASSESSMENT

- Borderline cases arising from Stage 1 (6.8-7.2m)

Assess the following;

- Geometry (long straights, good visibility)
- Roadside development
- Forgiving nature of roadsides
- Collision History
- AADT
- Mean speed and 85th percentile speeds
- Level of use by vulnerable road users

On single-lane Local Tertiary roads (and selected single-lane Local Secondaries) use the Rural Speed Limit sign in place of the 80 km/h sign (see TSAN-2016-01)

THE RURAL SPEED LIMIT SIGN

The Rural Speed Limit Sign (RUS 041A) is a sign used as an alternative to the 80 km/h sign face (RUS043) on specific single-lane rural roads (those typically referred to as 'bovens') to remove the visual target of the 80 km/h speed limit. The speed limit remains at 80 km/h, however, drivers are encouraged to use their best judgement to drive at speeds appropriate for the road/conditions but no greater than 80 km/h.

Indeed, this advice can be followed for all speed limits - they are not targets.

The sign can only be used on single-lane Local Tertiary roads and selected single-lane Local Secondary roads and not on Local Primary Roads, Regional Roads or National Roads (Primary or Secondary).

[Download Advice Note \(TSAN-2016-01\)](#)



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THE MAIN CHAPTERS

7.5

URBAN ROADS



- Speed Limit Matrix: the relationship between place, movement and speed (function v context) - See the Design Manual for Urban Roads and Streets (DMURS)

Function	Context		
	Urban Centers / Commercial Centers	Suburban and Housing Areas	Out of Town Business / Industrial Areas
Arterial	40 [*] - 50	40 [*] - 50	50 - 60
Link	30 - 40 [*]	30 - 50	50 - 60
Local	30	30	30 - 50

*The use of 40 km/h should only be considered in circumstances as prescribed in section 7.2.2.

Table 7.3 - Recommended Speed Limits for Urban Areas (km/h)



30 km/h Slow Zone

- Only for housing estate roads and slow zones (per TSAN-2016-02)
- 30 km/h self contained speed zones
- Self-enforcing utilising traffic calming measures
- Observe/record speeds

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THE MAIN CHAPTERS

7.6

URBAN ROADS

- High VRU concentration
- Low radii curves on ramps
- Roads in urban areas with through road function and not in housing estates (see DMURS 7.3.2)

SSL – 40 km/h



Applies to roads in urban centres, access ramps

		Pedestrian Priority	Vehicle Priority		
		Urban Centers / Commercial Centers	Suburban and Housing Areas	Out of Town Business / Industrial Areas	
Function	Arterial	40* - 50	40* - 50	50 - 60	
	Link	30 - 40*	30 - 50	50 - 60	
	Local	30	30	30 - 50	
		Context			

* The use of 40 km/h shall only be considered in circumstances as prescribed section 7.3.2.

Table 7.3 – Recommended Speed Limits for Urban Areas (km/h)

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SETTING SPEED LIMITS – DETAILED **7** →

THE MAIN CHAPTERS

7.7

PERIODIC SPEED LIMITS

- Sets rigid times for periodic speed limits at schools.
- Ensures these signs are not active out of hours; this can cause problems if perceived to be on unnecessarily.
- Familiarity breeds contempt (as with isolated hazards)

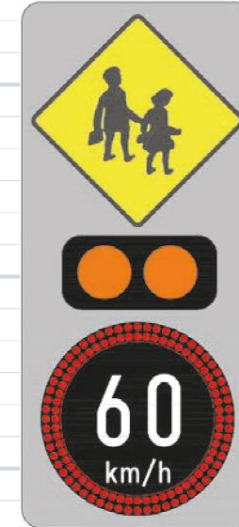


Figure 5.3:
Periodic Speed Limit Sign in
Combination with Other Signs

Morning	Start	30 minutes before school starting time	End	at school starting time
Early Collection	Start	Start 5 minutes before collection time	End	15 minutes after collection time
Late Collection	Start	Start 5 minutes before collection time	End	15 minutes after collection time

Table 7.5 – Special Speed Limit Timings at Schools

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THE MAIN CHAPTERS

7.8

SPEED LIMITS ON SEPARATE CARRIAGEWAYS



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TEMP SPEED LIMITS AT ROADWORKS **8** →








THE MAIN CHAPTERS

SPEED LIMITS AT ROADWORKS

Road Traffic Act
2004, S10

- Min 30 km/h (NOTE, 20 km/h not allowed)
- Max period one year
- Precise location start/end
- TII consent if National Road
- Notify An Garda Síochána - Chief Superintendent

Extracted from Traffic Signs Manual

APPROACH SPEED LIMIT	TSM REFERENCE	SIGN SIZE		APPROX REPEATER SPACING	SIGNFACE
		NORMAL SIGN	REPEATER SIGN ¹		
120 km/h	RUS 039	900 (1200) ²	-	-	
100 km/h	RUS 040	750 (900) ²	600 (750) ²	500m	
80 ³ km/h	RUS 041	600 (750) ²	450 (600) ²	500m	
60 km/h	RUS 042	600 (750) ²	450 (600) ²	500m	
50 km/h	RUS 043	600 (750) ²	450 (600) ²	500m	
40 km/h	RUS 064	600	450	200 to 500m	
30 km/h	RUS 044	450 (600)	300 (450)	200 to 500m	

¹. Repeater speed limit signs shall be at least one step in size below the normal speed limit sign used.

². The larger bracketed size may be used on dual carriageways and motorways, or where it is considered that greater prominence of the sign is necessary.

³. Sign RUS 041A (Rural Speed Limit Sign) is not permitted for use at road works.

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SPEED ASSESSMENT FRAMEWORK* **A** →

APPENDICES

SPEED ASSESSMENT FRAMEWORK

- Research completed in 2020 with regard to replacing it with a more suitable assessment methodology that can be applied to all rural single carriageway roads (Efficiency Index [EI] derived from Safe Profile Velocity [V_{sp}])
- 7 routes as case studies
- Potential trial
- Further details to follow

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- A SPEED ASSESSMENT FRAMEWORK*

SPEED LIMIT SIGNS **B** →

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SPEED LIMIT SIGNS

- See presentation (at speedlimits.ie)

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- B SPEED LIMIT SIGNS

POSITIONING OF SPEED LIMIT SIGNS **C** →

APPENDICES

POSITIONING OF SPEED LIMIT SIGNS

- See presentation (at speedlimits.ie)
- Consult Traffic Signs Manual and applicable Traffic Signs Advice Notes (speedlimits.ie and trafficsigns.ie)

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- MAPROAD PMS AND SPEED LIMITS APP **D** →

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MAPROAD PAVEMENT MANAGEMENT SYSTEM

- See presentation (at speedlimits.ie)
- Speed Limit Guidelines Appendix D

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LEGISLATIVE PROVISIONS **E** →

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LEGISLATIVE PROVISIONS

- See Speed Limit Guidelines Appendix E

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EXTRACTS FROM STANDARDS **F** →

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EXTRACTS FROM STANDARDS

- See Speed Limit Guidelines Appendix D
- DMURS
- TII Publications (tiipublications.ie)