
NRA ADDENDUM TO

TD 40/94

LAYOUT OF COMPACT GRADE SEPARATED JUNCTIONS

This Addendum supersedes the NRA Addendum to TD40/94 dated December 2000 on an interim basis. The only change is that paragraph 5.2 has been amended for consistency with the new road types as defined in NRA TD27/07 and NRA TD9/07. A wider review of junction requirements is ongoing and a general update will follow in 2008.

Standard TD 40/94 – Layout of Compact Grade Separated Junctions – is applicable in Ireland with the following amendments:

GENERAL

1. In several locations:
For: “Overseeing Organisation”
Read: “National Roads Authority”;

For: “TA20 (DMRB 6.2)”
Read: “TD42 (DMRB 6.2.6)”;

For: “TD9 (DMRB 6.1.1)”
Read: “NRA TD9 (NRA DMRB 6.1.1)”.

SPECIFIC

1. Page 1/1, Figure 1/1, title:
For: “**Examples of the range of Grade Separations**”
Read: “**Examples of Different Standards of Grade Separation**”.
2. Page 1/2, Paragraph 1.11:
Delete Paragraph 1.11 and replace with:

“1.11. This Standard should be used forthwith for all schemes for the construction and/or improvement of national roads. The Standard should be applied to the design of schemes already being prepared unless, in the opinion of the National Roads Authority, application would result in significant additional expense or delay progress. In such cases, Design Organisations should confirm the application of this Standard to particular schemes with the National Roads Authority.”
3. Page 2/4, Paragraph 2.22, line 2:
After: “use of **COBA**”
Insert: “(DMRB Volume 13, as used for the economic assessment of UK Highways Agency schemes)”.
4. Page 2/4, Paragraph 2.26, line 2:
After: “**(The Casualty Report)**” insert:
“and similar publications,”
5. Page 2/5, Paragraph 2.27c, line 3:
For: “**M Factor** and **value of time (VOT)** obtained from **COBA (NESA in Scotland)**.”
Read: “M Factor and value of time (VOT). Guidance on the appropriate factor and value of time should be sought from the National Roads Authority.”
6. Page 2/5, Paragraph 2.30:
At end of Paragraph 2.30 add:
“Guidance on the relevant discount rate should be sought from the National Roads Authority.”
7. Page 3/1, Paragraph 3.4, line 10:
For: “in **Table 3/1**.”
Read: “in Table 3/1 from UK accident statistics.”

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8. Page 3/1, Table 3/1:
Revise first column to read:
- _____
- “Classification of Road (in the UK)
- _____
- A (major roads including trunk roads)
- _____
- B (roads of medium significance)
- _____
- C (minor roads)
- _____
- Unclassified (minor roads)”
- _____
9. Page 3/2, Paragraph 3.10, line 1:
For: “Where full curve widening”
Read: “Where normal curve widening”.
10. Page 3/2, Paragraph 3.10, line 7:
For: “the **Traffic Signs Regulations and General Directions and Traffic Signs Regulations (Northern Ireland).**”
Read: “the Road Traffic (Signs) Regulations 1997.”
11. Page 5/1, Paragraph 5.2, line 3:
For: “within Categories 3A, 3B, 4, 5 and 6 of roads as defined in Table 4 of **TD9 (DMRB 6.1.1).**”
Read: “of the Types: Standard Single, Type 3 Dual, Type 2 Dual and Type 1 Dual as defined in Table 4 of **NRA TD 9 (NRA DMRB 6.1.1).** Compact grade separation may only be used on motorways with the agreement of the Head of Standards of the National Roads Authority.”
12. Page 5/1, Paragraph 5.7, line 7:
For: “**Figure 7/8.**”
Read: “Figure 7/9.”
13. Page 6/3, Paragraph 6.19:
Delete Paragraph 6.19 and replace with:
“6.19 For the purpose of designing junctions and interchanges, cross-sections for the mainline and typical connector roads are given in NRA TD 9 (NRA DMRB 6.1.1) and TD 22 (DMRB 6.2.1). Different lane marking details and widths of construction for connector roads are specified in this Standard.”
14. Page 7/1, Paragraph 7.2, line 5:
For: “**Figure 7/4 to 7/8.**”
Read: “Figure 7/5 to 7/8.”

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15. Page 7/1, Figure 7/3, line 3:
For: “forming a loop.”
Read: “forming a single connection over the mainline.”

 16. Page 8/1, 1. DMRB, references b and d:
Delete references b. and d. and replace with:
“b. **TD 42 (DMRB 6.2.6)** – Geometric Design of Major/Minor Priority Junctions.

d. **NRA TD 9 (DMRB 6.1.1)** – Road Link Design.”

 17. Page 8/1, 1. DMRB:
Insert new reference g:
“g. **TA48 (DMRB 6.2.2)** – Layout of Grade Separated Junctions.”

 18. Page 8/1, 6. Economic Assessment, reference a:
Delete reference a and replace with:
“a. **DMRB Volume 13** – Economic Appraisal of Road Schemes.”

 19. Page 8/1, 7. Miscellaneous, reference a:
Delete reference a and replace with:
“a. **Road Traffic (Signs) Regulations 1997.**”

 20. Page 8/1, 7. Miscellaneous:
Insert new reference f:
“f. **Traffic Signs Manual, DOELG.**”

 21. Page 9/1, Section 9:
Delete text and replace with:
“9.1. All technical enquiries or comments on this Standard should be sent in writing to:

Head of Project Engineering Operations
National Roads Authority
St Martin’s House
Waterloo Road
Dublin 4”



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E O’CONNOR
Head of Engineering Operations