

Developments in VRS

28/09/17

Herbert Nyamakope, TII
Network Management



CARS ONLY
CASH ONLY - NO RECEIPTS - NO CHANGE
MAX. HEIGHT 2.0m

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Hazards definitions



Hazards allowed in clear zone

object	2004	2007	2015
Trees (175mm -500mm circ)	✓	✗	✗
Steel posts (89mm-150mm dia)	✓	✗	✗
Cut off drains	✓	✓	✗
Timber post/rail fence	✓	✓	✗

Boundary fence

- Recommended boundary fence **RCD/300/20 and 21**



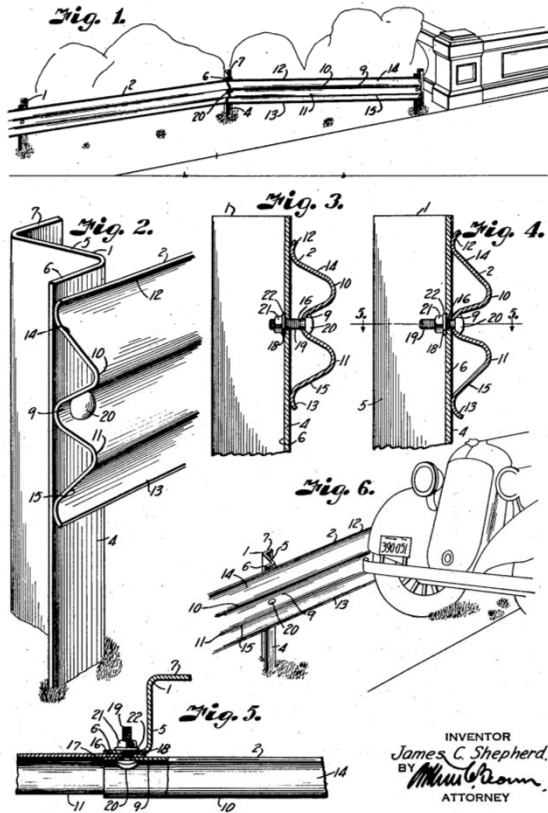
In the beginning

July 14, 1936.

J. C. SHEPHERD
HIGHWAY GUARD
Filed Aug. 20, 1934

2,047,436

2 Sheets-Sheet 1



More particularly my invention contemplates employment of a guard rail formed of sections of corrugated metal arranged in longitudinal alignment and having single point connection with the supporting posts,

INVENTOR
James C. Shepherd.
BY *M. M. Brown*
ATTORNEY

VRS innovations



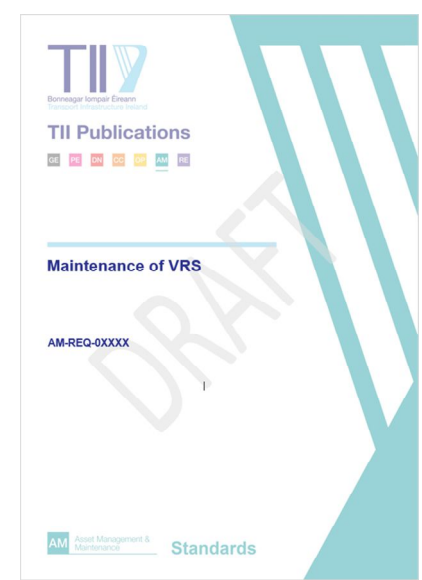
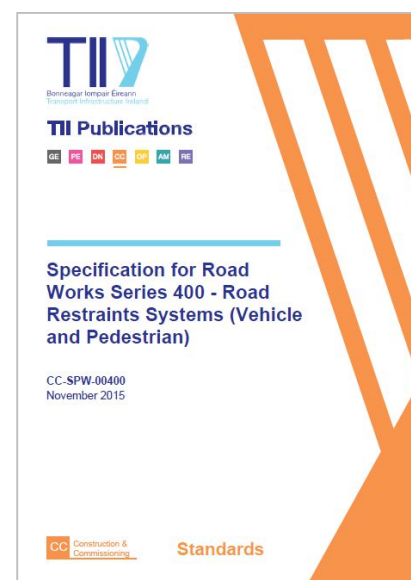
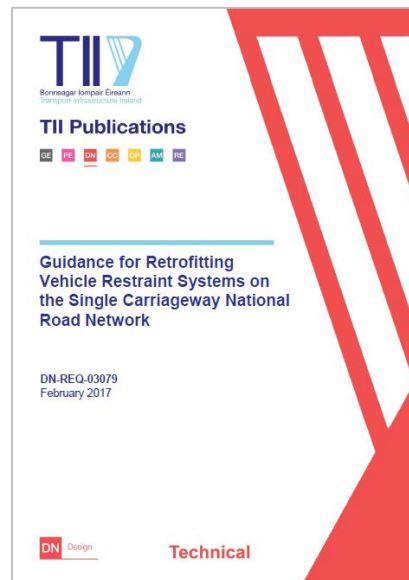
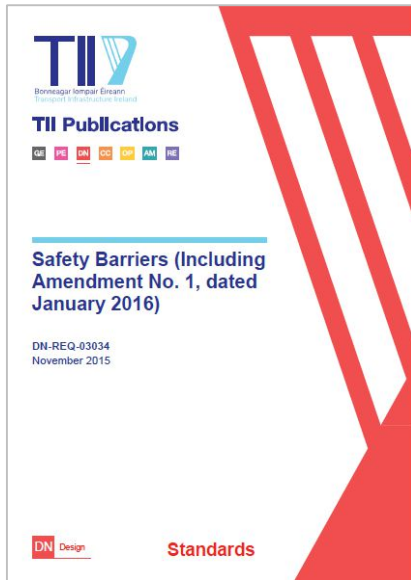
Developments in VRS

TD19

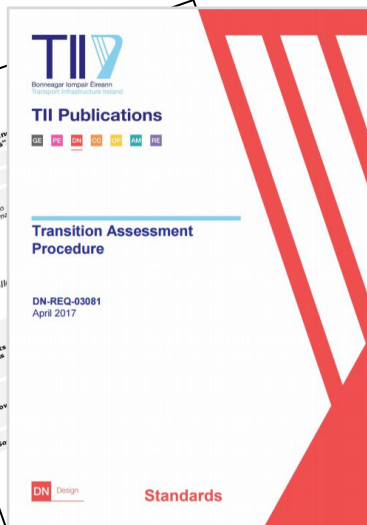
Retrofit

Series 400

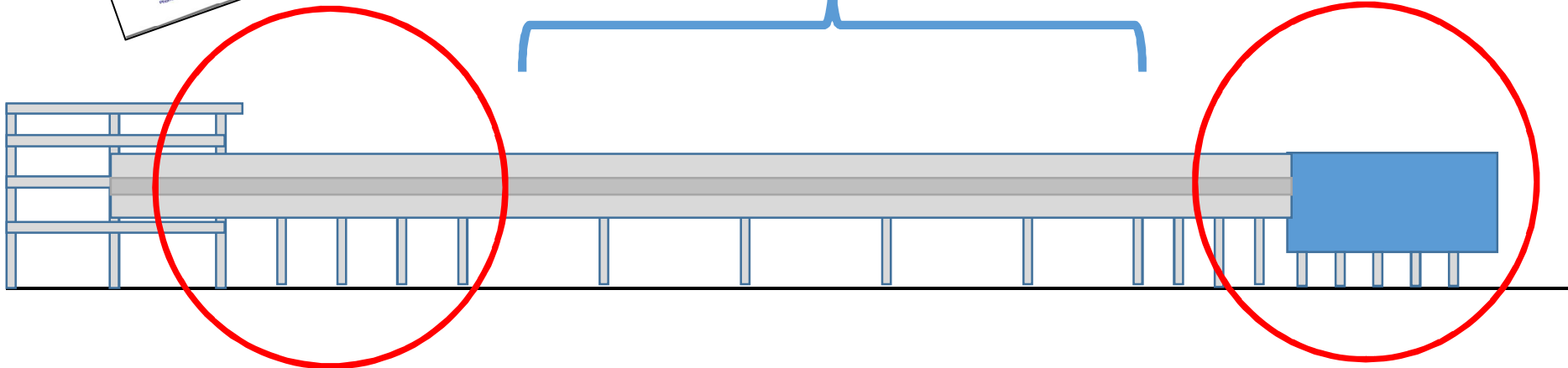
Mtce



Terminals and Transitions



hEN std
CE Marked
Barrier



Transition

Terminal

Terminals

1st Gen



Pre EN1317

2nd Gen



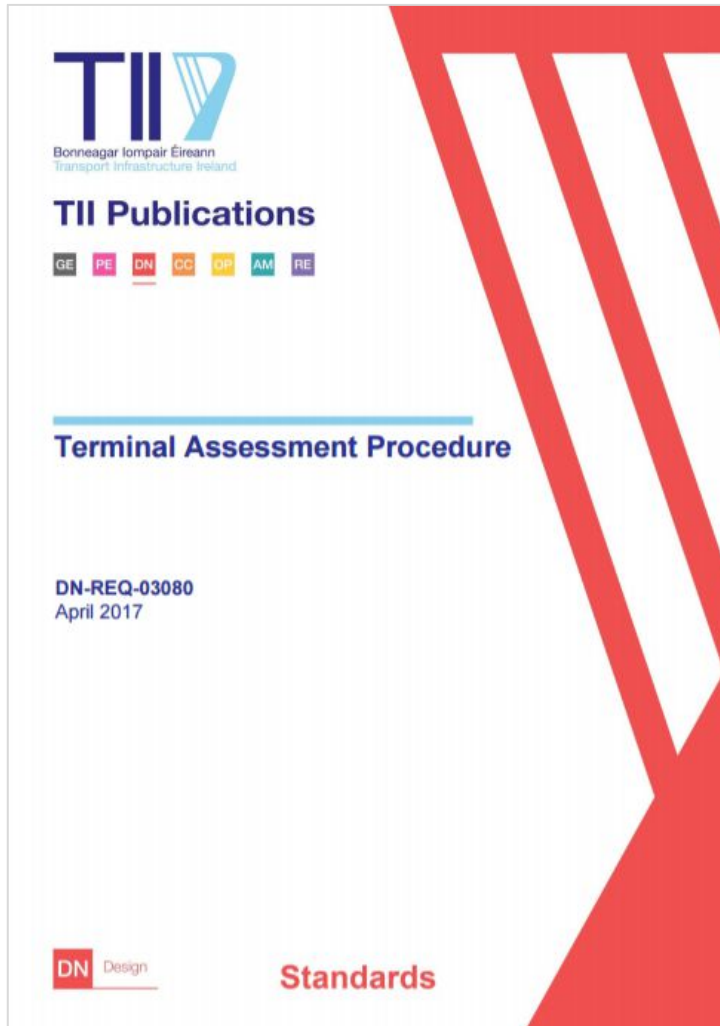
EN1317-4

3rd Gen



EN1317-7

Terminal Assessment Procedures

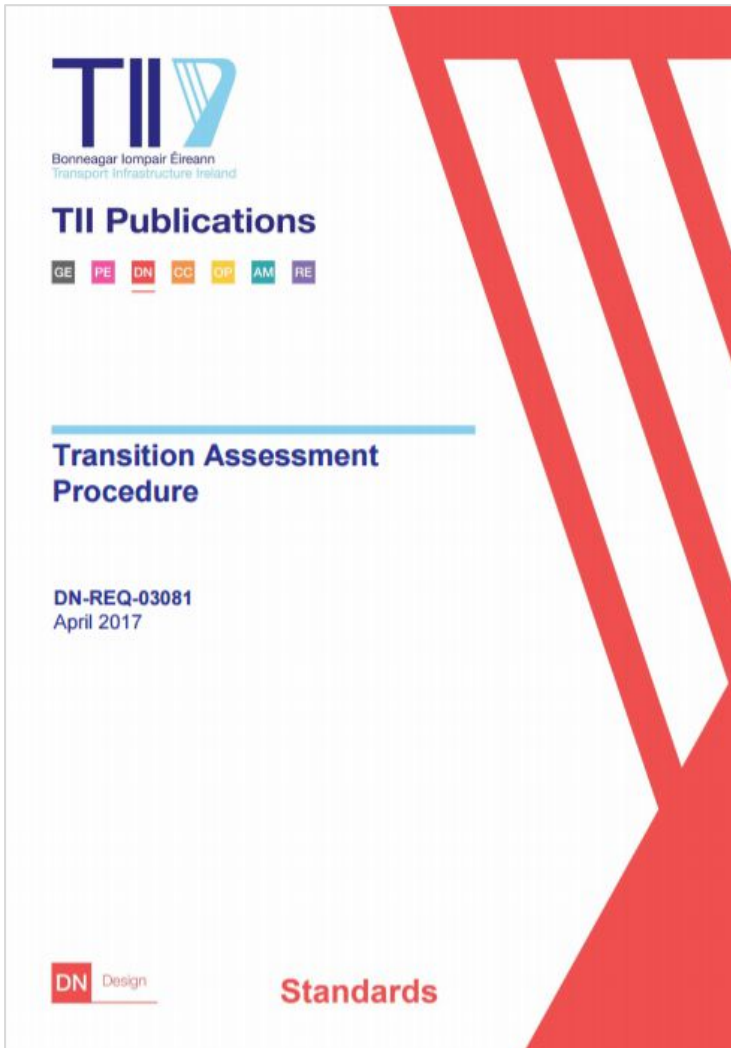


1. Manufacturer has to read the standard tiipublications.ie
2. Submit all type test reports (6 crash tests) through departures website
3. TII forwards reports to third party for assessment.
4. Results sent to TII.
5. TII informs supplier/contractor of outcome
6. If accepted, product added onto approved list: [TII publications/downloads](http://TIIpublications/downloads)

Transitions



Transition Assessment Procedures



All transitions to parapets or other barriers require approval.

1. Read the standard
2. Submit either full crash test reports or virtual test reports
3. TII forwards reports to third party for assessment
4. Results sent to TII.
5. TII informs supplier of outcome
6. If successful product added on approved list. [TII publications/downloads](#)

Collaboration with other NRAs

NRAs from Ire, UK, Ger, Bel, Swe, Nor, Den, Fin have formed a group to:

- *discuss and exchange best practice, views and experience in the area of vrs.*
 - *work towards a common approach for the assessment of non CE-marked products (e.g. terminals, transitions, temporary barrier systems, motorcyclist protection devices) by 2020*
-

Other Initiatives

- Contractor frameworks
 - Design Consultant
 - Irish Barrier Association
-

Design Training Course



Design Training Course - Reviews

- 1. Excellent course**
 - 2. Very comprehensive and informative**
 - 3. Excellent course that all area engineers as well as design engineers should attend**
 - 4. Very good course. I feel that the course should be promoted and expanded to all engineers.**
 - 5. One of the best courses I have ever done**
 - 6. Course was extremely useful and will have it recommended to others/colleagues.**
 - 7. Very informative. Course needed and met with my expectations. Well structured and presented**
 - 8. Very worthwhile and informative. Shows that there are a lot of loopholes in the industry which need to be addressed.**
-

Design Training Course – next course

Next Course:

24/25 October - Dublin

Contact: Engineers Ireland

(0)1 665 1305

Carrielle Holt: cholt@engineersireland.ie

Pocketing

