Technical Note 161

Registering Extended Design Domain and Design Exception Summary Reports into GIMS

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1 Purpose of Technical Note

This Technical Note provides interim guidance on the specific requirements for capturing and registering Extended Design Domain (EDD) Reports and Design Exception (DE) Summary Reports (after being appropriately certified and approved) into the Department of Transport and Main Roads Geospatial Information Management System (GIMS) for record keeping purposes and for subsequent easy access, reference and retrieval.

The information in this Technical Note is additional to that covered in the department’s Guidelines for Road Design on Brownfields Sites and Road Planning and Design Manual 2nd Edition: Volume 3, Part 8: Process and Documentation. The information contained in the above documents focuses on the technical engineering aspects and the process of preparing formal Reports (e.g. Summary Reports) justifying and documenting the use of EDD or DE, rather than describing how those reports are to be captured by the department, hence the necessity for releasing this Technical Note.

2 Background

The use of EDD in Transport and Main Roads is considered an acceptable standard, provided that its use and application is properly justified and documented accordingly in an ‘EDD Report’. In addition, a Design Exception, using design values below EDD, requires a more thorough risk management approach and more rigorous mitigating treatments supported by well-documented justifications detailed in a ‘DE Report’. The application of EDD and DE can only be used with the relevant Transport and Main Roads District approval, the process of preparing and approving EDD and DE Reports is covered under the Guidelines for Road Design on Brownfields Sites and Road Planning and Design Manual 2nd Edition: Volume 3, Part 8: Process and Documentation. Refer to these documents for further detailed information.

The department’s Plan Room will now be able to register these type of reports with associated drawings in the GIMS database with an Interactive Mapping Layer (iMaps) hence the need to specify in this Technical Note what information and the format required when submitting EDD and DE Reports to Plan Room for registration into GIMS.

The registration of these reports will also provide an improvement to the department’s record keeping and quality systems maintained within the GIMS and iMaps systems with relevant data. GIMS will also include an iMaps Layer. These are linked with associated “Issued for Constructed”, “As Constructed” drawings, and where revisions are made to EDD and DE reports and drawings involving design decisions and implementation of design information outside normal design domain (NDD) for each project.

3 Application

The implementation of registering EDD and DE Reports into GIMS will provide Transport and Main Roads personnel an easy access to these reports for future reference, record keeping purposes and ongoing monitoring of projects and locations where EDD or DE has been used. It will also enable users to access associated iMaps data through a GIMS layer.
The registration into GIMS applies to existing EDD and DE Reports previously received in the past by the various Transport and Main Roads District Offices. It is a requirement that these reports are submitted to Plan Room. The registration also applies to all new and future reports whenever EDD and DE Reports are submitted for any project.

The submission and registration process requirements are as follows:

a) Each EDD and DE Report requires a unique report number to be registered into GIMS. The report naming / numbering convention format is EDD-CN12345-00 for extended design domain reports and DE-CN12345-00 for design exception reports, where:
   - **EDD** or **DE** are to be used according to the type of report.
   - **CN12345** is the Contract Number, where **12345** is the unique contract number issued to each project for every single contract. This unique contract number is generated automatically by 3PCM. It is currently made up of four digits but it is expected to increase up to six digits eventually.
     
     *Note: the Contract Number is NOT the same as the 3PCM Project Number.*
   - **00** represent two digits, normally 00 (double zero) is to be used for single reports when one report covers the entire project, but if several individual reports have been prepared for the same project then these two digits are to be assigned to each individual report in a numerical order starting from 00, 01, 02, 03, and so on.

b) The cover of the report needs to list every single applicable drawing that relates to the application of EDD and DE that is being justified on the report which is required in order to be able to link the report to the relevant drawings in GIMS. Similarly, every single relevant drawing needs to have a note on the drawing referring to the relevant EDD and DE report.

c) EDD and DE Reports are to be submitted in conjunction with the relevant design drawings. These drawings are normally the “Issued For Construction” drawings being submitted to Plan Room as per the requirements described under the Drafting and Design Presentation Standards Manual Volume 1, Chapter 1, Section 1.7.1. If content of reports and associated drawing is altered since Issued for Constructed, up to and including As Constructed, these are to be submitted to Plan Room as revisions to the original documents.

4 Future development

The content of this Technical Note will be incorporated eventually into the next edition of the Transport and Main Roads Road Planning and Design Manual 2nd Edition: Volume 3, Part 8: Process and Documentation.
5 References

Transport and Main Roads publication references refer to the latest published document on the departmental website (www.tmr.qld.gov.au).

1. Transport and Main Roads Guidelines for Road Design on Brownfields Sites, Brisbane, Australia.


3. Transport and Main Roads Drafting and Design Presentation Standards Manual, Volume 1, Chapter 1, Brisbane, Australia.

