

Updates to Structures Standards

Jonathan Case Arup

TII Standards Training 2022 17th May 2023

Expansion Joints: February 2023

Revised standard **DN-STR-03006** "Expansion Joints for Use in Road Bridge Decks"

Significant update of design standard to reflect current design and approval procedures. Supplementary information provided regarding good detailing practice, installation and maintenance aspects.

Revised specification CC-SPW-02300

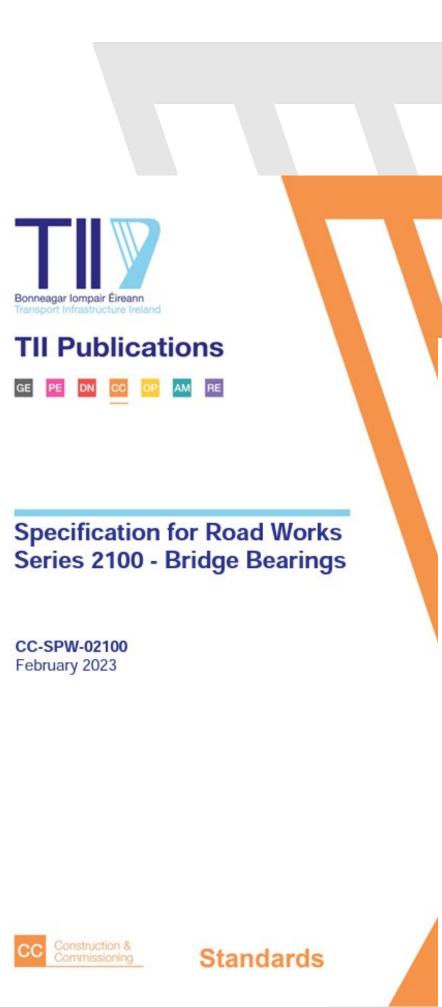
References to BD-33 (superseded) removed and references to DN-STR-03006 implemented.

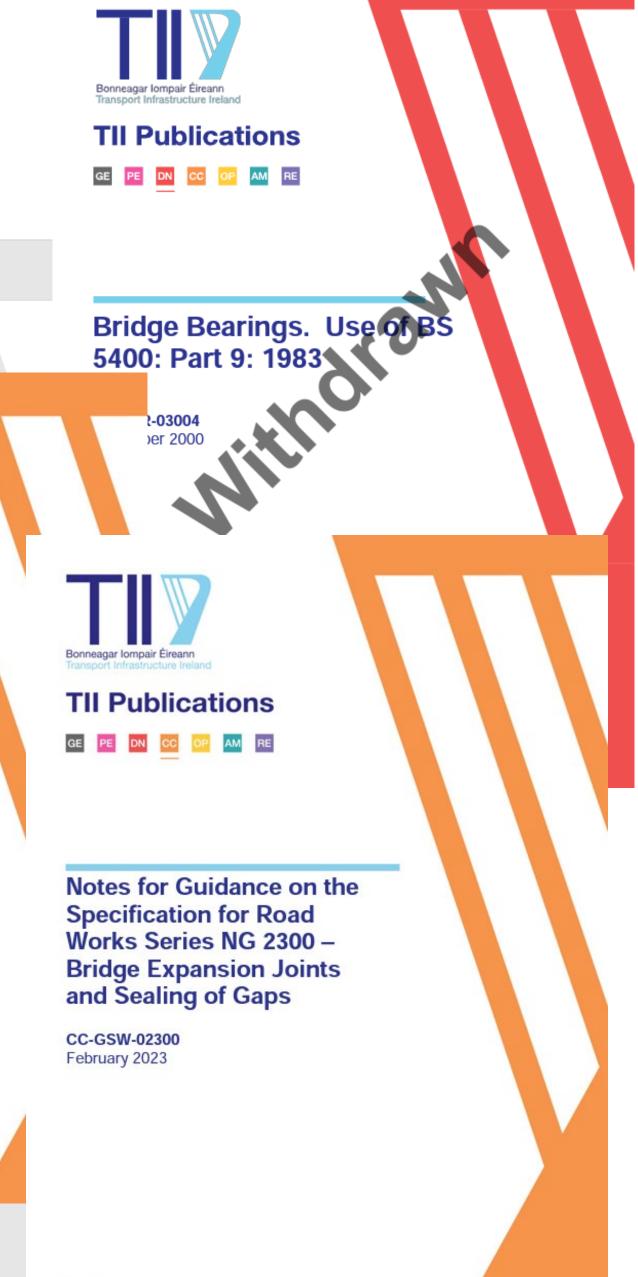


Bridge Bearings: February 2023

Standard withdrawn **DN-STR-03004**Applicable standard: Euronorm IS EN 1337 parts 1 to 11

Updated specification **CC-SPW-02100**To align with IS EN 1337
Updated notes for guidance **CC-GSW-02300**References to BD-33 (superseded) removed and references to DN-STR-03006 implemented.





Standards

CC Construction & Commissioning

Design of Road Structures: February 2023

Interim Advice Note withdrawn: IAN-02

New design standard: **DN-STR-03020** "*The Structural* Design of Road Structures"

This Standard gives guidance, advice, and the requirements of the Road Authority on the use of Eurocodes for the design of structures constructed as part of National Road Projects and aspects of execution relevant to the design.



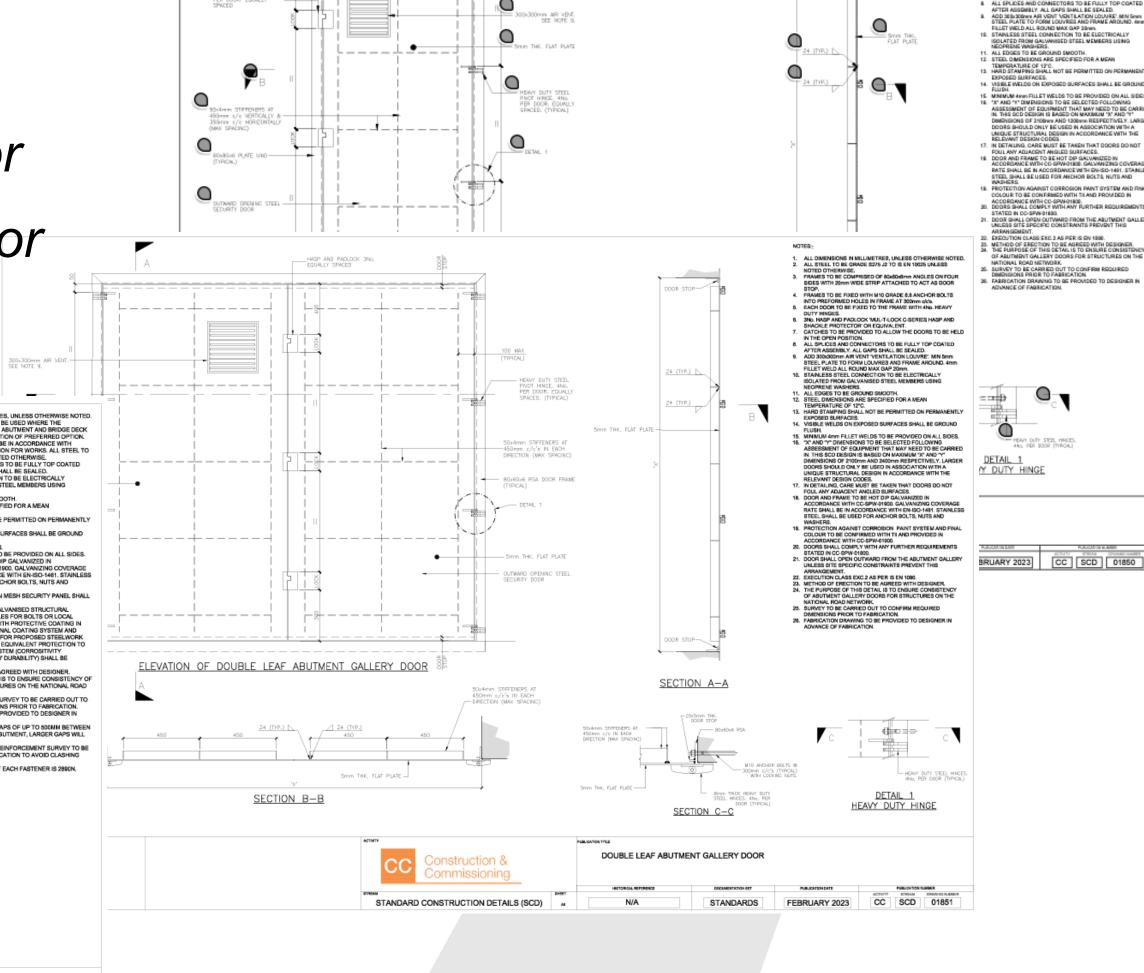
Bridge abutment Standard Details: February 2023

Standard Details

CC-SCD-01850 Single Leaf Abutment Gallery Door

CC-SCD-01851 Double Leaf Abutment Gallery Door

CC-SCD-01852 Abutment Gallery Security Mesh



EIRSPAN manuals : September 2022

Updated manual: **AM-STR-06054** "*EIRSPAN Bridge Management System Principal Inspection Manual*"

Updated manual: **AM-STR-06055** "EIRSPAN Bridge Management System Routine Maintenance Manual"

Documents reclassified from a Standard to a Technical Documents.



Gantry Groups 8 to 11: December 2021

Standard Details for new Gantry type: Group 8

CC-SCD-01822

CC-SCD-01823

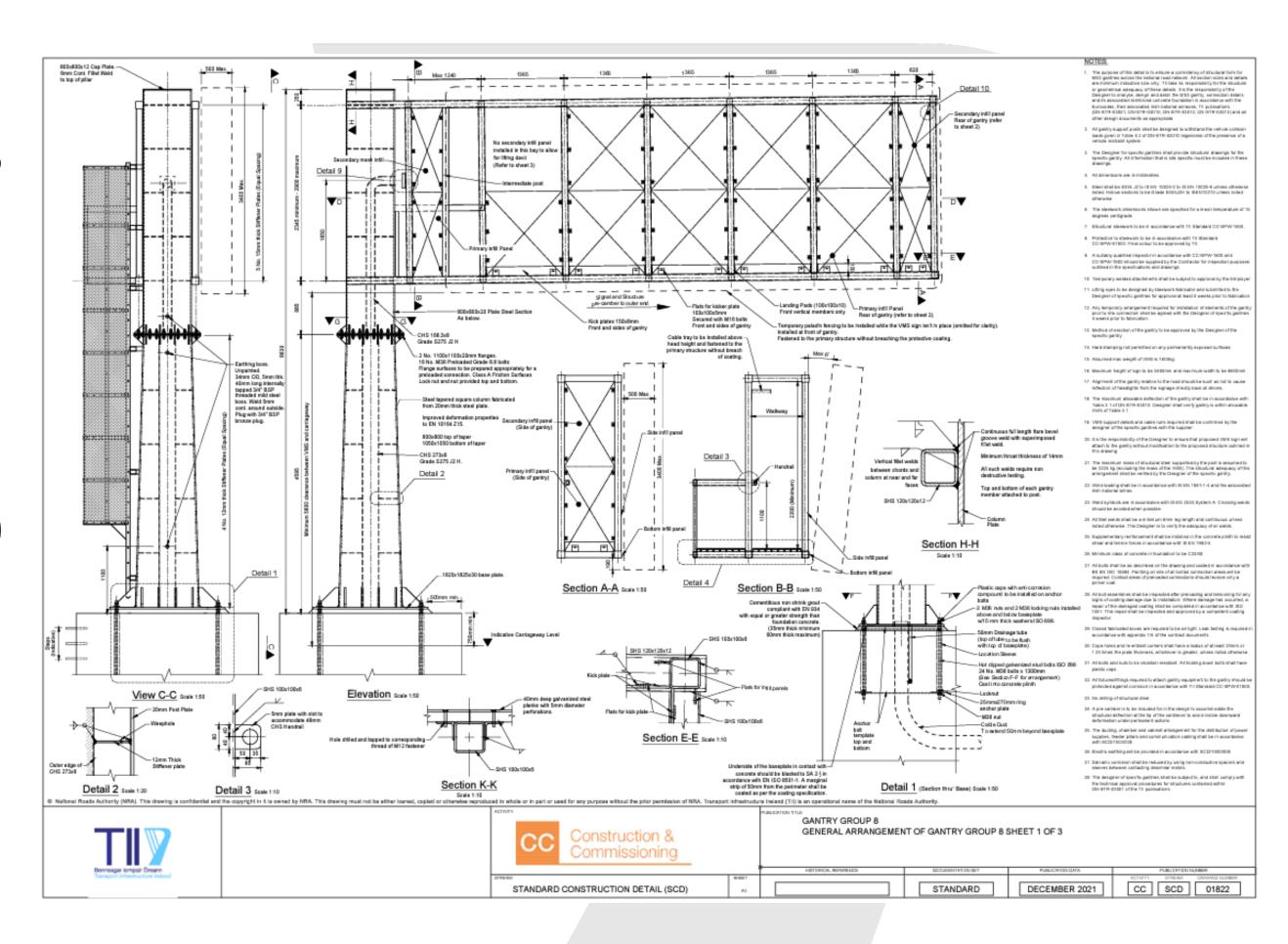
CC-SCD-01824

Standard Details for new Gantry type: Group 9

CC-SCD-01825

CC-SCD-01826

CC-SCD-01827



Gantry Groups 8 to 11: December 2021

Standard Details for new Gantry type: Group 10

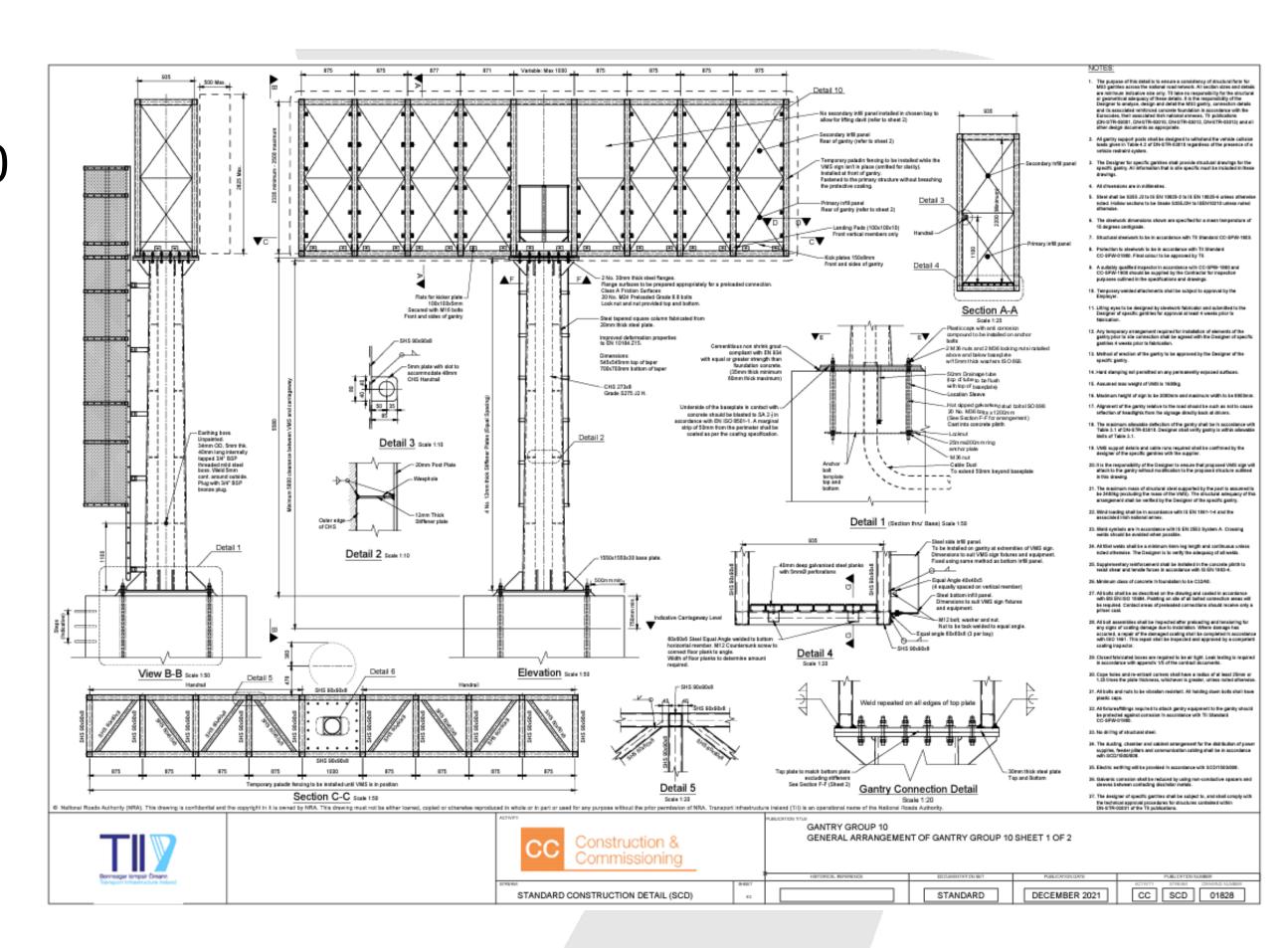
CC-SCD-01828

CC-SCD-01829

Standard Details for new Gantry type: Group 11

CC-SCD-01830

CC-SCD-01831



Reinforced Earth Structures: July 2021

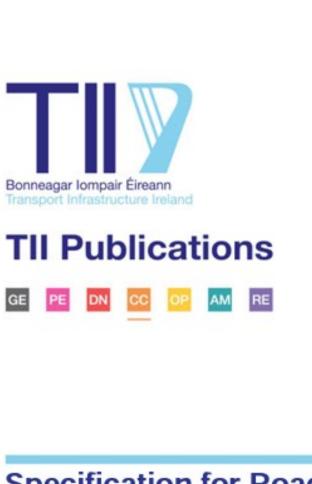
Updated specification: **CC-SPW-02500**Updated to give consistency in design approach and specifications with regard to reinforced earth structures.

Updated notes for guidance: CC-GSW-02500



Notes for Guidance on the Specification for Road Works Series 02500 - Special Structures

CC-GSW-2500 July 2021



Specification for Road Works Series 02500 - Special Structures

CC-SPW-02500 July 2021



Standards





Ongoing work

Sustainability & TII Structures – Position Paper

Review and commentary on current practices within TII Structures in the context of sustainable development. The objective of Position Paper is to identify current sustainability practices and to recommend key focus areas which have a positive impact on the delivery of the SIP goals.

Aesthetics of Road Structures – New design standard

Currently the requirements for bridge aesthetics and typical/standard details are defined by the Employer in the contract documents. The objective of this new standard is to provide an overarching document on the aesthetics of road structures – it will cover aspects related to processes and procedures, as well as requirements related to structural form and detailing principles.