

TII Publications















Standard Construction Details - Series 1800

February 2023



Standard Construction Details (SCDs) – Series 1800

TII Publications contains Standard Construction Details (SCDs) for use on National Road schemes in Ireland. This composite document brings together all the Series 1800 SCDs from TII Publications current at the date of this document's publication, into a single location for convenience.

Every effort has been made to keep this composite document updated and available from the TII Publications website (http://www.tiipublications.ie/). Please note that the SCD drawings available from the TII Publications website (individually linked below) are the controlled versions for all SCDs.

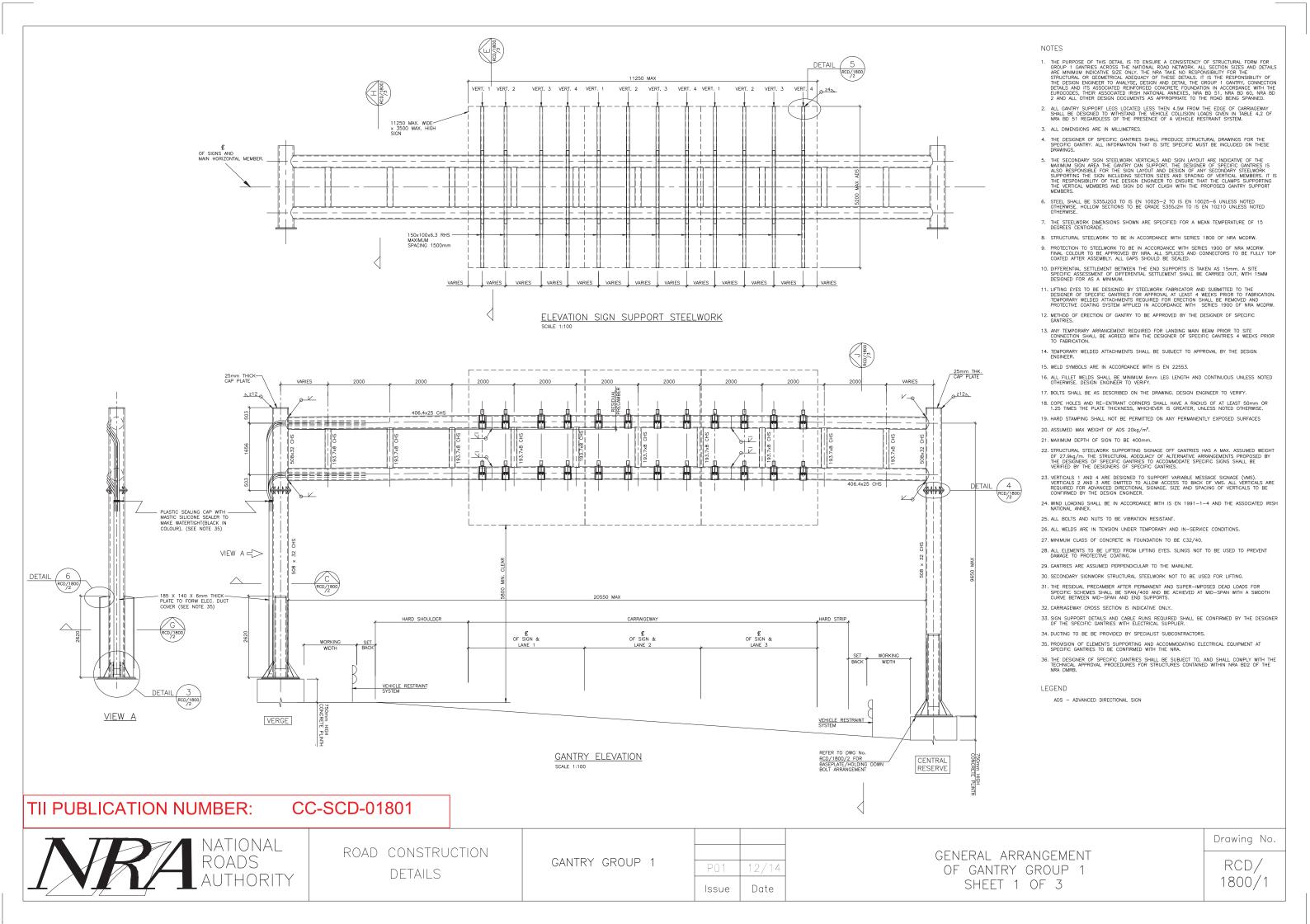
The SCDs contained in this document are as follows:

Series 1800 Structural Steelwork

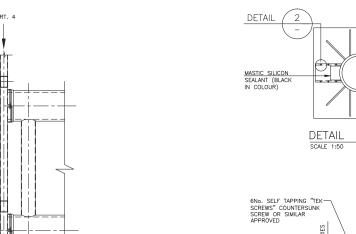
CC-SCD-01801	Gantry Group 1 - General Arrangement of Gantry Group 1 Sheet 1 of 3
CC-SCD-01802	Gantry Group 1 - Details of Gantry Group 1 Sheet 2 of 3
CC-SCD-01803	Gantry Group 1 - Details of Gantry Group 1 Sheet 3 of 3
CC-SCD-01804	Gantry Group 2 - General Arrangement of Gantry Group 2 Sheet 1 of 3
CC-SCD-01805	Gantry Group 2 - Details of Gantry Group 2 Sheet 2 of 3
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CC-SCD-01807	Gantry Group 3 - General Arrangement of Gantry Group 3 Sheet 1 of 3
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CC-SCD-01810	Gantry Group 4 - General Arrangement of Gantry Group 4 Sheet 1 of 2
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CC-SCD-01815	Gantry Group 6 - General Arrangement of Gantry Group 6 Sheet 2 of 4
CC-SCD-01816	Gantry Group 6 - General Arrangement of Gantry Group 6 Sheet 3 of 4
CC-SCD-01817	Gantry Group 6 - General Arrangement of Gantry Group 6 Sheet 4 of 4
CC-SCD-01818	Gantry Group 7 - General Arrangement of Gantry Group 7 Sheet 1 of 4
CC-SCD-01819	Gantry Group 7 - General Arrangement of Gantry Group 7 Sheet 2 of 4
CC-SCD-01820	Gantry Group 7 - General Arrangement of Gantry Group 7 Sheet 3 of 4
CC-SCD-01821	Gantry Group 7 - General Arrangement of Gantry Group 7 Sheet 4 of 4
CC-SCD-01822	Gantry Group 8 - General Arrangement of Gantry Group 8 Sheet 1 of 3
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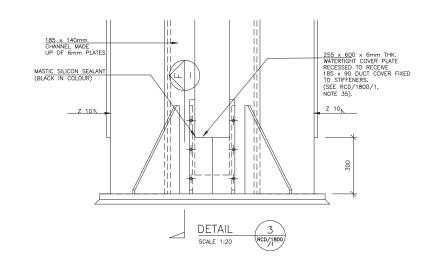
TRANSPORT INFRASTRUCTURE IRELAND (TII) PUBLICATIONS

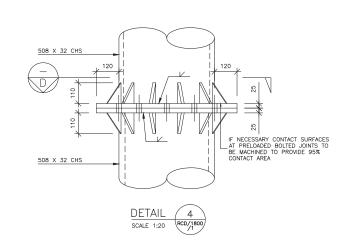
CC-SCD-01823	Gantry Group 8 - General Arrangement of Gantry Group 8 Sheet 2 of 3
CC-SCD-01824	Gantry Group 8 - General Arrangement of Gantry Group 8 Sheet 3 of 3
CC-SCD-01825	Gantry Group 9 - General Arrangement of Gantry Group 9 Sheet 1 of 3
CC-SCD-01826	Gantry Group 9 - General Arrangement of Gantry Group 9 Sheet 2 of 3
CC-SCD-01827	Gantry Group 9 - General Arrangement of Gantry Group 9 Sheet 3 of 3
CC-SCD-01828	Gantry Group 10 - General Arrangement of Gantry Group 10 Sheet 1 of 2
CC-SCD-01829	Gantry Group 10 - General Arrangement of Gantry Group 10 Sheet 2 of 2
CC-SCD-01830	Gantry Group 11 - General Arrangement of Gantry Group 11 Sheet 1 of 2
CC-SCD-01831	Gantry Group 11 - General Arrangement of Gantry Group 11 Sheet 2 of 2
CC-SCD-01850	Single Leaf Abutment Gallery Door
CC-SCD-01851	Double Leaf Abutment Gallery Door
CC-SCD-01852	Abutment Gallery Security Mesh

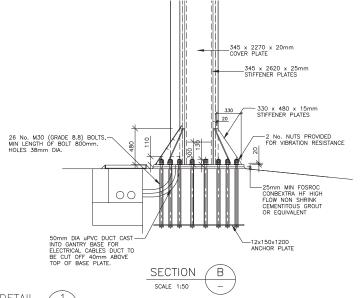






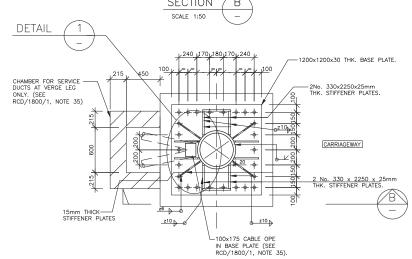




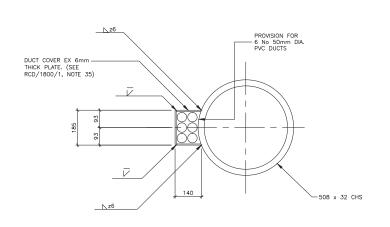


SIGN SUPPORT STEELWORK

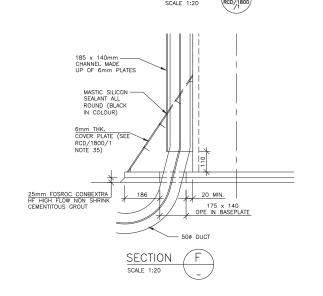
-SIGN SUPPOR STEELWORK T BE VERTICAL UNDER PERMANENT LOAD PLUS SUPER-IMPOS DEAD LOAD

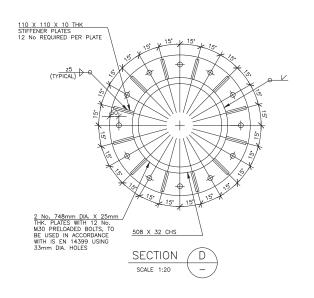


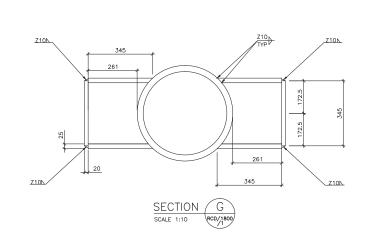
PLAN ON BASE PLATE

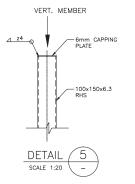


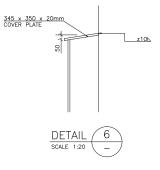
SECTION













ROAD CONSTRUCTION DETAILS

GANTRY GROUP 1

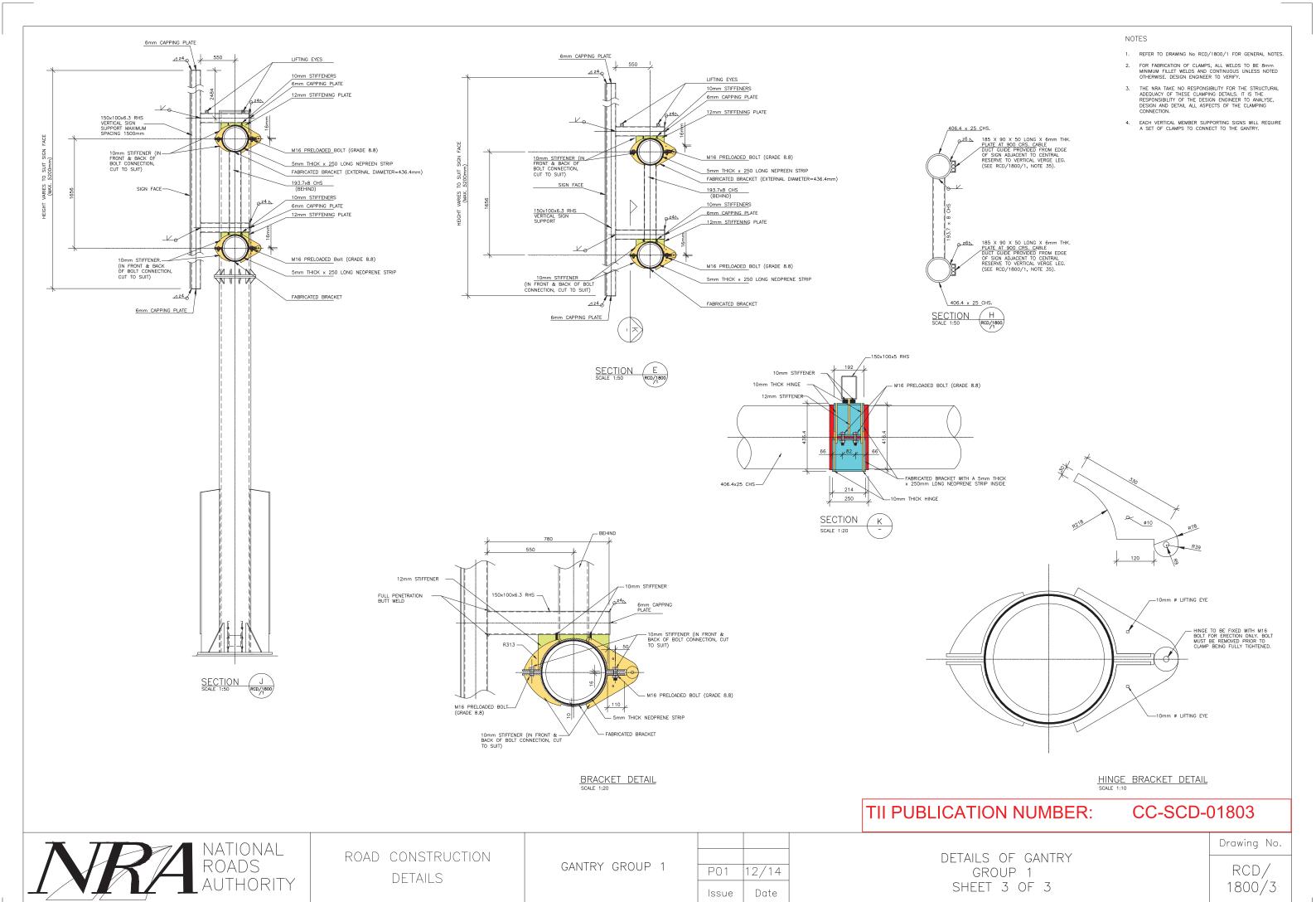
P01	12/14
Issue	Date

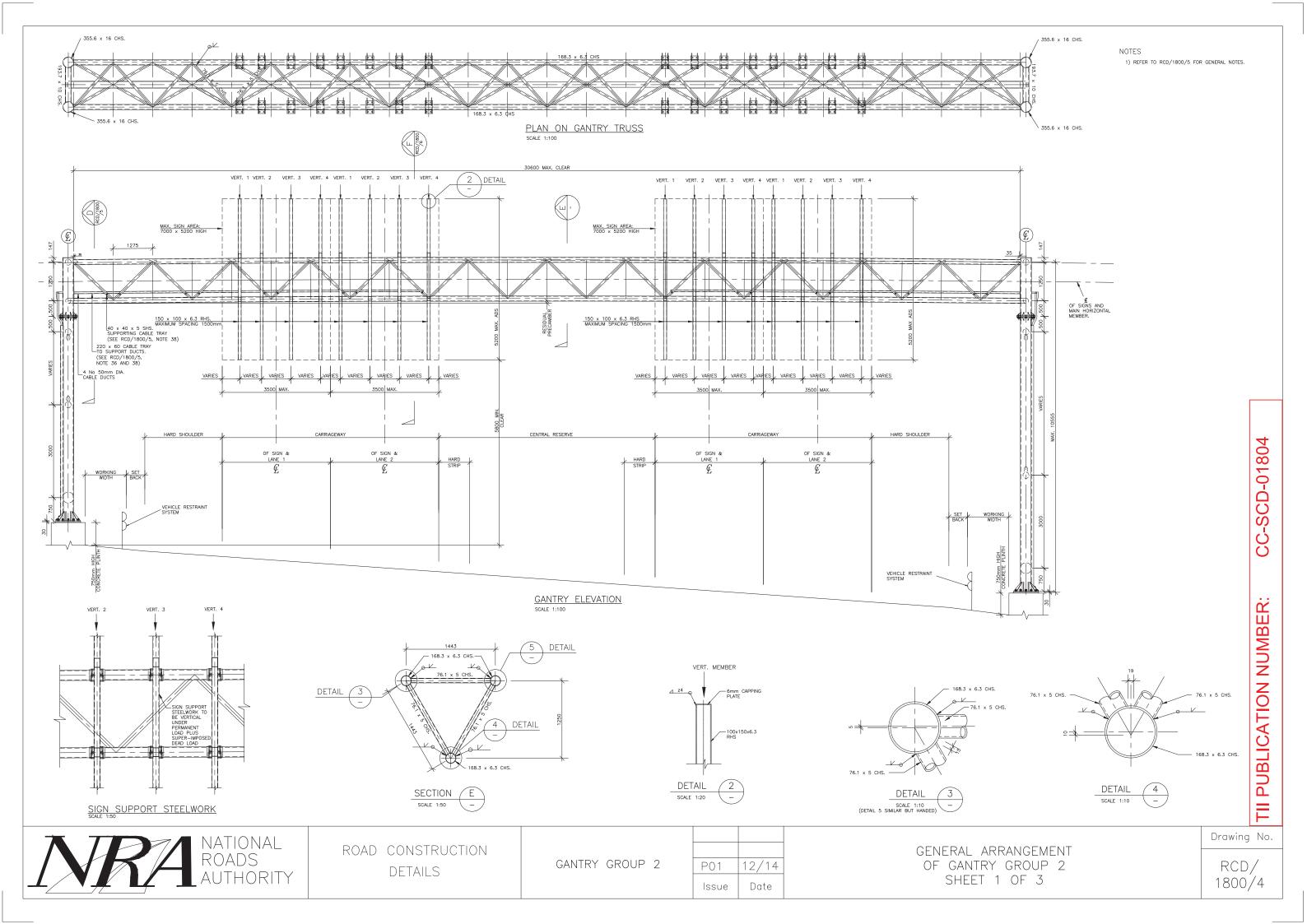
DETAILS OF GANTRY GROUP 1 SHEET 2 OF 3

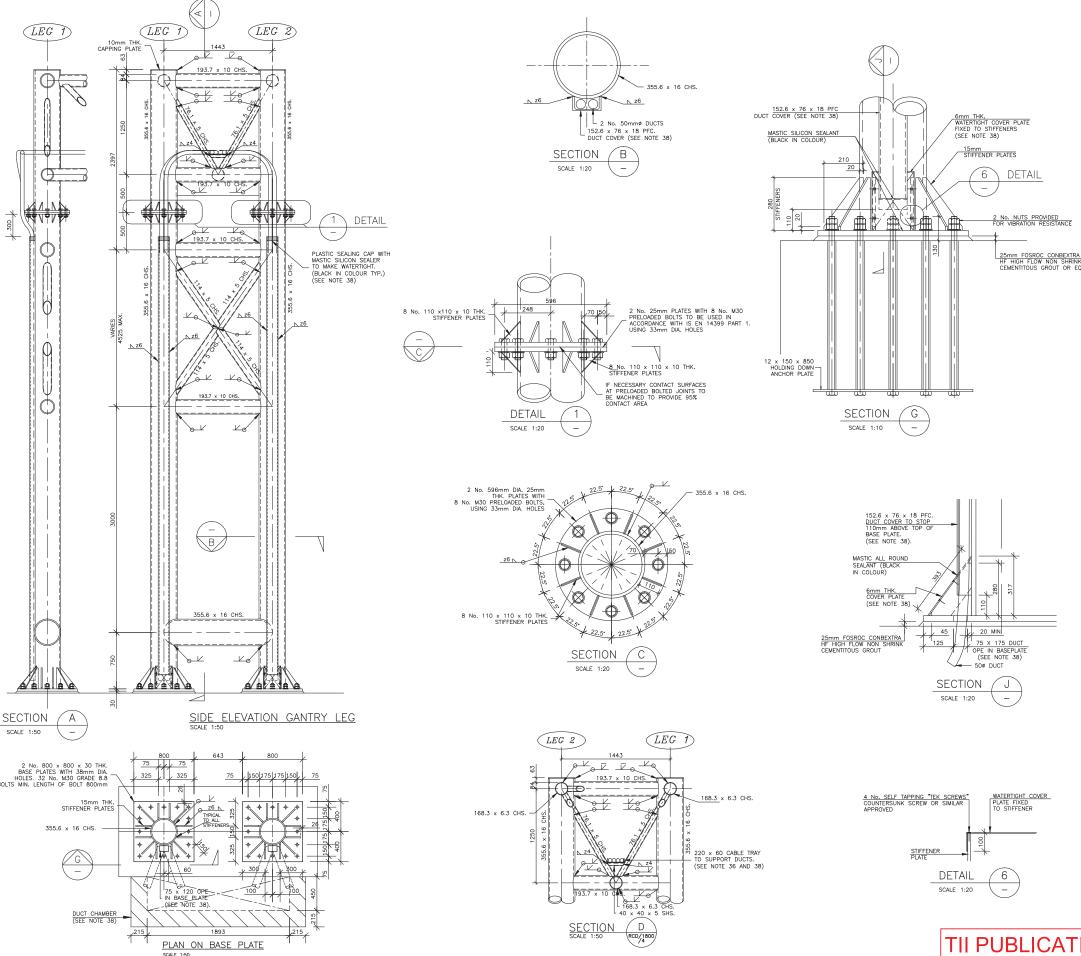
Drawing No.

CC-SCD-01802

TII PUBLICATION NUMBER:







NOTES:

- 1. THE PURPOSE OF THIS DETAIL IS TO ENSURE A CONSISTENCY OF STRUCTURAL FORM FOR GROUP 2 GANTRIES ACROSS THE NATIONAL ROAD NETWORK, ALL SECTIONS SIZES AND DETAILS ARE MINIMUM INDICATIVE SIZE ONLY. THE NRA TAKE NO RESPONSIBILITY FOR THE STRUCTURAL OR GEOMETRICAL ADEQUACY OF THESE DETAILS. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ANALYSE, DESIGN AND DETAIL THE GROUP 2 GANTRY, CONNECTION DETAILS AND ITS ASSOCIATED REINFORCED CONCRETE FOUNDATION IN ACCORDANCE WITH THE EUROCODES, THEIR ASSOCIATED REINFORCED CANCER FOR ADDITIONAL ANNEXES, NRA BD/51, NRA BD/60, NRA BD/62 AND ALL OTHER DESIGN DOCUMENTS AS APPROPRIAT TO THE ROADS BEING SPANNED.
- ALL GANTRY SUPPORT LEGS LOCATED LESS THEN 4.5M FROM THE EDGE OF CARRIAGEWAY SHALL BE DESIGNED TO WITHSTAND THE VEHICLE COLLISION LOADS GIVEN IN TABLE 4.2 OF NRA BD/51 REGARDLESS OF PRESENCE OF A VEHICLE RESTRANT SYSTEM.
- 3. ALL DIMENSIONS ARE IN MILLIMETRES
- THE DESIGNER OF SPECIFIC GANTRIES SHALL PRODUCE STRUCTURAL DRAWINGS FOR THE SPECIFIC GANTRY. ALL INFORMATION THAT IS SITE SPECIFIC MUST BE INCLUDED ON THESE DRAWINGS.
- STEEL SHALL BE S355J2G3 TO IS EN 10025-2 TO IS EN 10025-6 UNLESS NOTED OTHERWISE. HOLLOW SECTIONS TO BE GRADE S355J2H TO IS EN 10210 UNLESS NOTED OTHERWISE.
- THE STEELWORK DIMENSIONS SHOWN ARE SPECIFIED FOR A MEAN TEMPERATURE OF 15 DEGREES CENTIGRADE.
- 7. STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH SERIES 1800 OF NRA MCDRW.
- PROTECTION TO STEELWORK TO BE IN ACCORDANCE WITH SERIES 1900 OF NRA MCDRW. FINAL COLOUR TO BE APPROVED BY NRA. ALL SPLICES AND CONNECTORS TO BE FULLY TOP COATED AFTE ASSEMBLY, ALL GAPS, SHALL IR S. FALLED.
- DIFFERENTIAL SETTLEMENT BETWEEN THE END SUPPORTS IS TAKEN AS 15mm. A SITE SPECIFIC ASSESSMENT OF DIFFERENTIAL SETTLEMENT SHALL BE CARRIED OUT, WITH 15mm DESIGNED FOR A MINIMUM.
- 10. LITTING EYES TO BE DESIGNED BY STEELWORK FABRICATOR AND SUBMITTED TO THE DESIGNER OF SPECIFIC COATTRIES FOR APPROVAL AT LEAST 4 WEEKS PRIOR TO FABRICATION, TEMPORARY WELDED ATTACHMENTS REQUIRED FOR ERECTION SHALL BE REMOVED AND PROTECTIVE COATING SYSTEM
- 11. METHOD OF ERECTION OF GANTRY TO BE APPROVED BY THE DESIGNER OF SPECIFIC GANTRIES.
- 12. ANY TEMPORARY ARRANGEMENT REQUIRED FOR LANDING MAIN BEAM PRIOR TO SITE CONNECTION SHALL BE AGREED WITH THE DESIGNER OF SPECIFIC GANTRIES 4 WEEKS PRIOR TO FABRICATION
- 13. TEMPORARY WELDED ATTACHMENTS SHALL BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER
- 14. WELD SYMBOLS ARE IN ACCORDANCE WITH IS EN 22553.
- 15. ALL FILLET WELDS SHALL BE MINIMUM 6mm LEG LENGTH, AND CONTINUOUS UNLESS NOTED OTHERWISE. DESIGN ENGINEER TO VERIFY.
- 16. BOLTS SHALL BE AS DESCRIBED ON THE DRAWING. DESIGN ENGINEER TO VERIFY
- 17. COPE HOLES AND RE-ENTRANT CORNERS SHALL HAVE A RADIUS OF AT LEAST 50mm OR 1.25 TIMES THE PLATE THICKNESS, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE.
- 18. HARD STAMPING SHALL NOT BE PERMITTED ON ANY PERMANENTLY EXPOSED SURFACES
- 19. ASSUMED MAX WEIGHT OF ADS 20kg/m2.
- 20. MAX. DEPTH OF SIGN 400mr
- 21. STRUCTURAL STEELWORK SUPPORTING SIGNAGE OFF GANTRIES HAS A MAX. ASSUMED WEIGHT OF 27.94g/m. THE STRUCTURAL ADEQUACY OF ALTERNATIVE ARRANCEMENTS PROPOSED BY THE DESIGNERS OF SPECIFIC GANTRIES TO ACCOMMODATE SPECIFIC SIGNS SHALL BE VERIFIED BY THE DESIGNERS OF SPECIFIC GANTRIES.
- 22. VERTICALS 1 AND 4 ARE DESIGNED TO SUPPORT VARIABLE MESSAGE SIGNAGE (VMS), VERTICALS 2 AND 3 ARE OMITED TO ALLOW ACCESS TO BACK OF VMS. ALL VERTICALS ARE REQUIRED FOR ADVANCED DIRECTIONAL SIGNAGE. SIZE AND SPACING OF VERTICALS TO BE CONFIRMED BY THE DESIGN ENGINEER.
- 23. WIND LOADING SHALL BE IN ACCORDANCE WITH IS EN 1991-1-4 AND THE ASSOCIATED NATIONAL ANNEX.
- 24. ALL BOLTS AND NUTS TO BE VIBRATION RESISTANT.
- 25. ALL WELDS ARE IN TENSION UNDER TEMPORARY AND IN-SERVICE CONDITION
- 26. MINIMUM CLASS OF CONCRETE IN FOUNDATION TO BE C32/4
- 27. ALL ELEMENTS TO BE LIFTED FROM LIFTING EYES. SLINGS NOT TO BE USED TO PREVENT DAMAGE TO PROTECTIVE COATING.
- 28. GANTRIES ARE ASSUMED PERPENDICULAR TO THE MAINL
- 9. SECONDARY SIGNWORK STRUCTURAL STEELWORK NOT TO BE USED FOR LIFTING
- NO. THE SECONDARY SIGN STEELMORK VERTICALS AND SIGN LATOUT ARE INDICATIVE OF THE MAXIMUM SIGN AREA THE GANITY CAN SUPPORT. THE DESIGNER OF SPECIFIC GANTRIES IS ALSO RESPONSIBLE FOR THE SIGN LATOUT AND DESIGN OF ANY SECONDARY STEELWORK SUPPORTING THE SIGN INCLUDING SECTION SIZES AND SPACING OF VERTICAL MEMBERS. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE CLAMPS SUPPORTING THE VERTICAL MEMBERS AND SIGN DO NOT CLASH WITH THE PROPOSED GANTRY SUPPORT MEMBERS.
- 31. THE RESIDUAL PRECAMBER AFTER DEAD AND SUPERIMPOSED DEAD LOADS FOR SPECIFIC SCHEMES SHALL BE SPAN/400 AND BE ACHIEVED AT MID-SPAN WITH A SMOOTH CURVE BETWEEN MID-SPAN AND END SUPPORTS.
- 32. CARRIAGEWAY CROSS SECTIONAL DIMENSIONS ARE INDICATIVE ONLY.
- 33. SIGN SUPPORT DETAILS AND CABLE RUNS REQUIRED SHALL BE CONFIRMED BY THE DESIGNER OF THE SPECIFIC GANTRIES WITH ELECTRICAL SUPPLIER.
- 34. DUCTING TO BE BE PROVIDED BY SPECIALIST SUBCONTRACTORS
- 35. PROVISION OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH THE NRA.
- CABLE TRAY TO BE HEAVY DUTY TYPE BRE 108 (220 X 60mm) MANUFACTURED BY ELLICKSON ENGINEERING OR SIMILAR APPROVED.
- 37. THE DESIGNER OF SPECIFIC GANTRIES SHALL BE SUBJECT TO, AND SHALL COMPLY WITH THE TECHNICAL APPROVAL PROCEDURES FOR STRUCTURES CONTAINED WITHIN NRA BD2 OF THE NRA DMRB.
- 38. PROVISION OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH THE NRA.

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ADS - ADVANCED DIRECTIONAL S

TII PUBLICATION NUMBER: CC-SCD-01805

Drawing No.

DETAILS OF GANTRY
GROUP 2 SHEET 2 OF 3

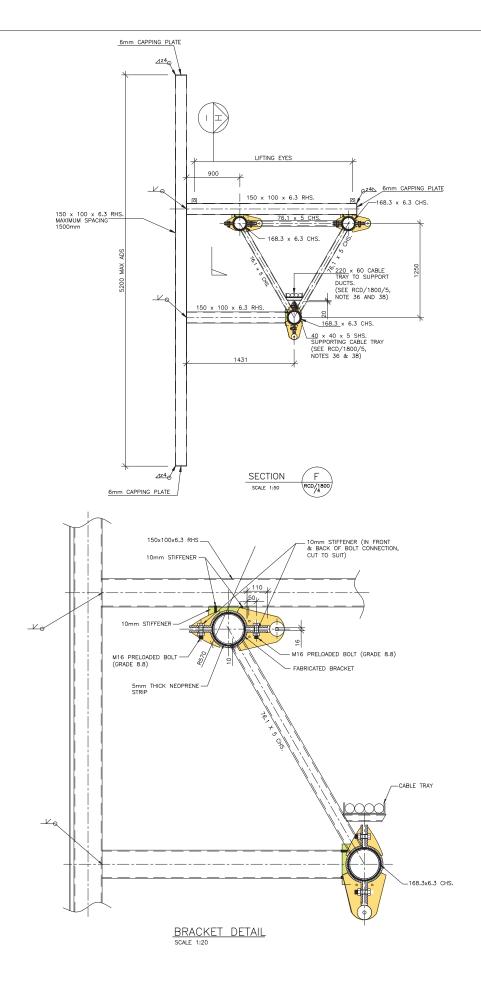
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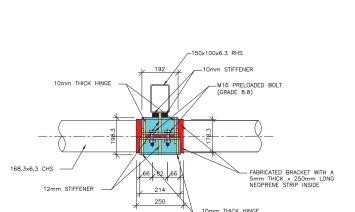
ROAD CONSTRUCTION
DETAILS

GANTRY GROUP 2

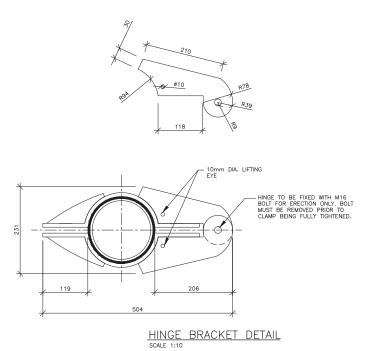
P01 12/14

Issue Date





SECTION H



TII PUBLICATION NUMBER: CC-SCD-01806-01

NATIONAL ROADS AUTHORITY

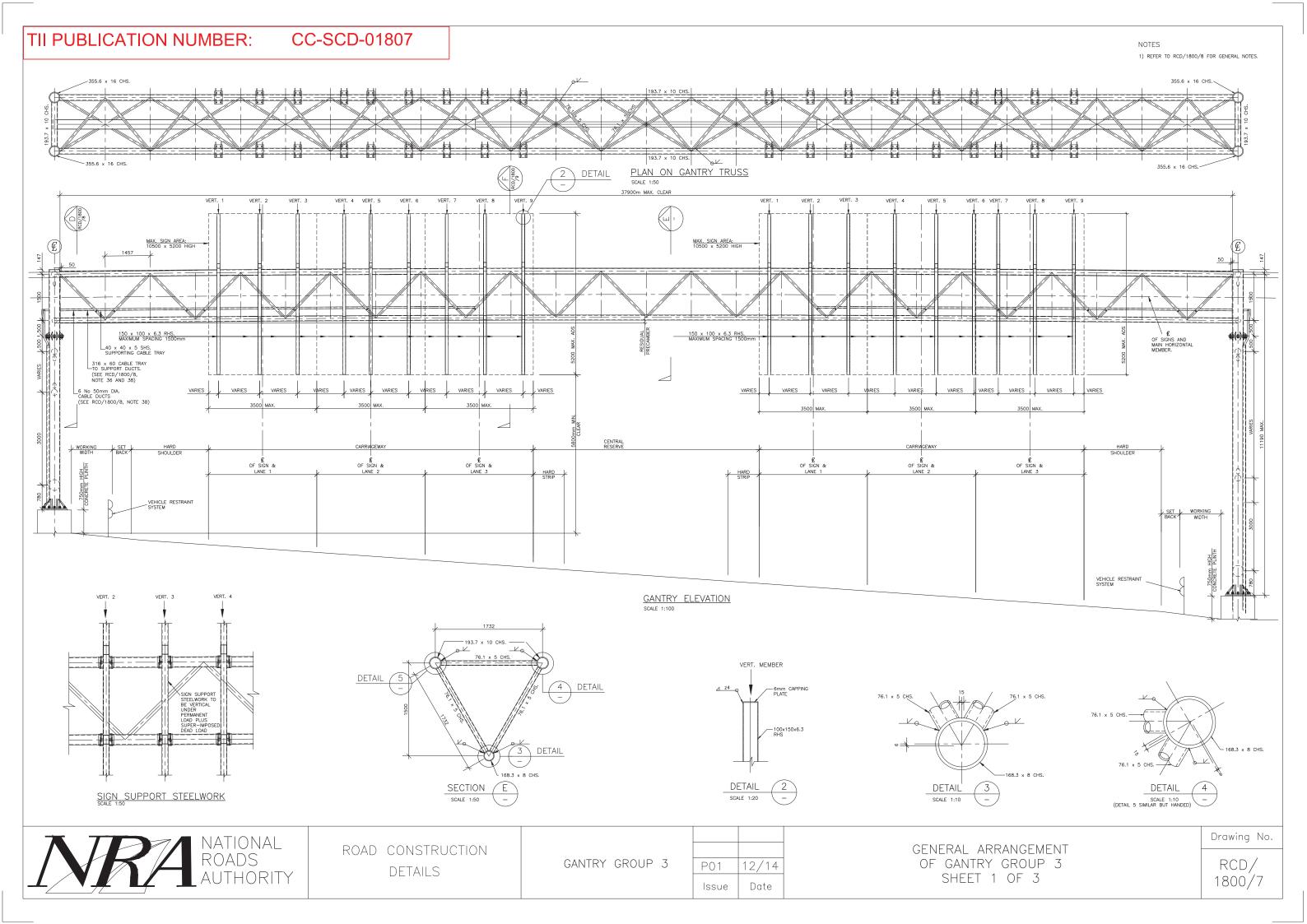
ROAD CONSTRUCTION
DETAILS

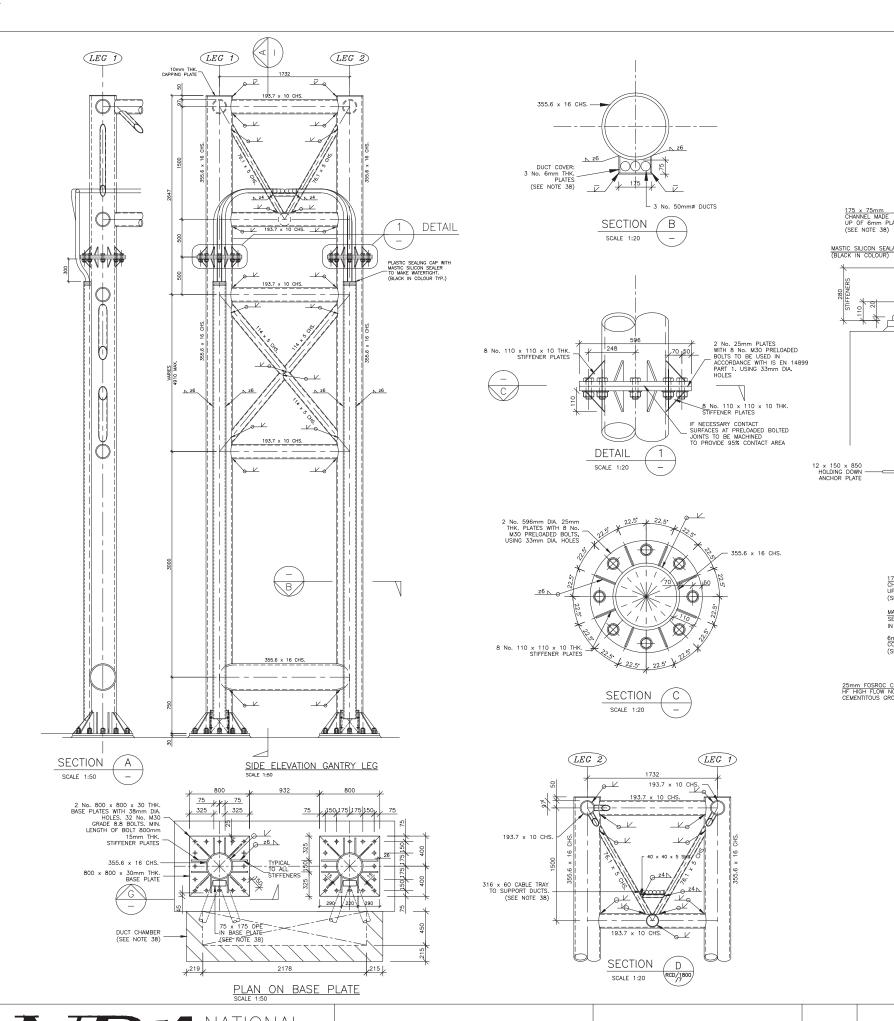
GANTRY GROUP 2

P01 12/14
Issue Date

DETAILS OF GANTRY GROUP 2 SHEET 3 OF 3 Drawing No.

1. FOR NOTES REFER TO RCD/1800/5.







6mm THK. WATERTIGHT COVER PLATE FIXED TO STIFFENERS (SEE NOTE 38)

15mm STIFFENER PLATES

6 DETAIL

2 No. NUTS PROVIDED FOR VIBRATION RESISTANCE

- ALL GANTRY SUPPORT LEGS LOCATED LESS THEN 4.5M FROM THE EDGE OF CARRIAGEWAY SHALL BE DESIGNED TO WITHSTAND THE VEHICLE COLLISION LOADS GIVEN IN TABLE 4.2 OF NRA BD 51 REGARDLESS OF THE PRESENCE OF A VEHICLE RESTRAINT SYSTEM.
- 3. ALL DIMENSIONS ARE IN MILLIMETRES.
- THE DESIGNER OF SPECIFIC GANTRIES SHALL PRODUCE STRUCTURAL DRAWINGS FOR THE SPECIFIC GANTRY ALL INFORMATION THAT IS SITE SPECIFIC MUST BE INCLUDED ON THESE DRAWINGS.
- THE SECONDARY SIGN STEELWORK VERTICALS AND SIGN LAYOUT ARE INDICATIVE OF THE MAXIMUM SIGN AREA THE GANTRY CAN SUPPORT. THE DESIGNER OF SPECIFIC GANTRIES IS ALSO RESPONSIBLE FOR THE SIGN LAYOUT AND DESIGN OF ANY SECONDARY STEELWORK SUPPORTING THE SIGN INCLUDING SECTION SIZES AND SPACING OF VERTICAL MEMBERS, IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO ENSURE THAT THE CLAMPS SUPPORTING THE VERTICAL MEMBERS AND SIGN DO NOT CLASH WITH THE PROPOSED GANTRY SUPPORT MEMBERS.
- 6. STEEL SHALL BE \$355J2G3 TO IS EN 10025-2 TO IS EN 10025-6 UNLESS NOTED OTHERWISE. HOLLOW SECTIONS TO BE GRADE \$355J2H TO IS EN 10210 UNLESS NOTED OTHERWISE.
- 7. THE STEELWORK DIMENSIONS SHOWN ARE SPECIFIED FOR A MEAN TEMPERATURE OF 15 DEGREES CENTIGRADE.
- 8. STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH NRA MCDRW SERIES 1800
- PROTECTION TO STEELWORK TO BE IN ACCORDANCE WITH NRA MCDRW SERIES 1900. FINAL COLOUR TO BE APPROVED BY NRA ALL SPLICES AND CONNECTORS TO BE FULLY TOP COATED AFTER ASSEMBLY. ALL GAPS SHALL BE SEALED.
- 11. LIFTING EYES TO BE DESIGNED BY STEELWORK FABRICATOR AND SUBMITTED TO THE DESIGNER OF SPECIFIC CANTRIES FOR APPROVAL AT LEAST 4 WEEKS PRIOR TO FABRICATION. TEMPORARY WELDED ATTACHMENTS REQUIRED FOR ERECTION SHALL BE REMOVED AND PROTECTIVE COATING SYSTEM APPLIED IN ACCORDANCE WITH NRA MCDRW SERIES 1900.

- 14. TEMPORARY WELDED ATTACHMENTS SHALL BE SUBJECT TO APPROVAL BY THE DESIGN ENGINEER
- 15. WELD SYMBOLS ARE IN ACCORDANCE WITH IS EN 22553.
- ALL FILLET WELDS SHALL BE MINIMUM 6mm LEG LENGTH AND CONTINUOUS UNLESS NOTED OTHERWISE. DESIGN ENGINEER TO VERIFY.
- 17. BOLTS SHALL BE AS DESCRIBED ON THE DRAWING, DESIGN ENGINEER TO VERIFY.
- 18. COPE HOLES AND RE-ENTRANT CORNERS SHALL HAVE A RADIUS OF AT LEAST 50mm OR 1.25 TIMES THE PLATE THICKNESS, WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE.
- 19. HARD STAMPING SHALL NOT BE PERMITTED ON ANY PERMANENTLY EXPOSED SURFACES

- . STRUCTURAL STEELWORK SUPPORTING SIGNAGE OFF GANTRIES HAS A MAX. ASSUMED WEIGHT OF 27.9kg/m. THE STRUCTURAL ADEQUACY OF ALTERNATIVE ARRANGEMENTS PROPOSED BY THE DESIGNERS OF SPECIFIC GANTRIES TO ACCOMMODATE SPECIFIC SIGNS SHALL BE VERIFIED BY THE DESIGNERS OF SPECIFIC GANTRIES
- ARE OMITTED TO ALLOW ACCESS TO BACK OF VMS. ALL VERTICALS ARE REQUIRED FOR ADVANCED DIRECTIONAL SIGNAGE. SIZE AND SPACING OF VERTICALS TO BE CONFIRMED BY THE DESIGN ENGINEER.
- 24. WIND LOADING SHALL BE IN ACCORDANCE WITH IS EN 1991-1-4 AND THE ASSOCIATED NATIONAL ANNEX.
- 26. ALL WELDS ARE IN TENSION UNDER TEMPORARY AND IN-SERVICE CONDITIONS

- 30, SECONDARY SIGNWORK STRUCTURAL STEELWORK NOT TO BE USED FOR LIFTING.
- 31. THE RESIDUAL PRECAMBER AFTER PERMANENT AND SUPER-IMPOSED DEAD LOADS FOR SPECIFIC SCHEMES SHALL BE: SPAN/400 AND BE ACHIEVED AT MID-SPAN WITH A SMOOTH CURVE BETWEEN MID-SPAN AND END SUPPORTS.
- 32. CARRIAGEWAY CROSS SECTION IS INDICATIVE ONLY
- 33. SIGN SUPPORT DETAILS AND CABLE RUNS REQUIRED SHALL BE CONFIRMED BY THE DESIGNER OF THE SPECIFIC GANTRIES WITH ELECTRICAL SUPPLIER.
- 34. DUCTING TO BE BE PROVIDED BY SPECIALIST SUBCONTRACTORS.
- 35. PROVISION OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH THE NRA.
- 36. CABLE TRAY TO BE HEAVY DUTY TYPE BRE 108 (220 X 60mm) MANUFACTURED BY ELLICKSON ENGINEERING OR SIMILAR APPROVED.
- 38. PROVISION OF ELEMENTS SUPPORTING AND ACCOMMODATING ELECTRICAL EQUIPMENT AT SPECIFIC GANTRIES TO BE CONFIRMED WITH THE NRA.

LEGEND

ADS - ADVANCED DIRECTIONAL SIGN

TII PUBLICATION NUMBER:

CC-SCD-01808

DETAILS OF GANTRY GROUP 3 SHEET 2 OF 3

Drawing No.

RCD/ 1800/8

ROAD CONSTRUCTION DETAILS

GANTRY GROUP 3

P01 Date

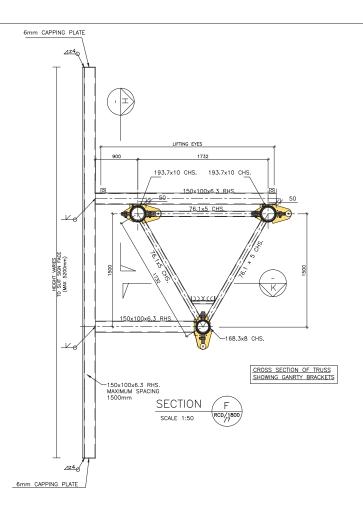
12/14

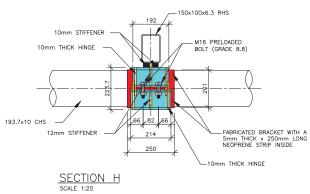
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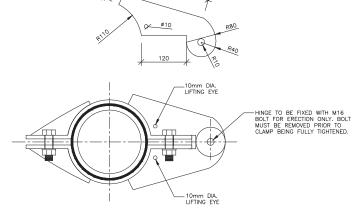
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SECTION

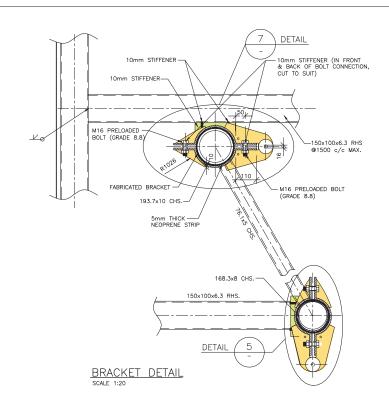
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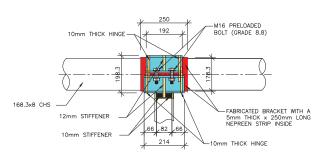




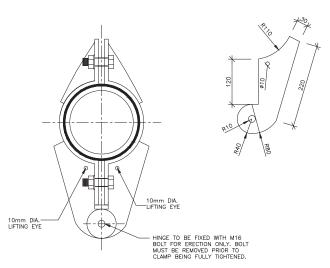


BRACKET DETAIL 7
SCALE 1:10





SECTION K SCALE 1:20



BRACKET DETAIL 8
SCALE 1:10

TII PUBLICATION NUMBER: C

CC-SCD-01809

NOTES:

1. FOR GENERAL NOTES REFER TO RCD/1800/8.

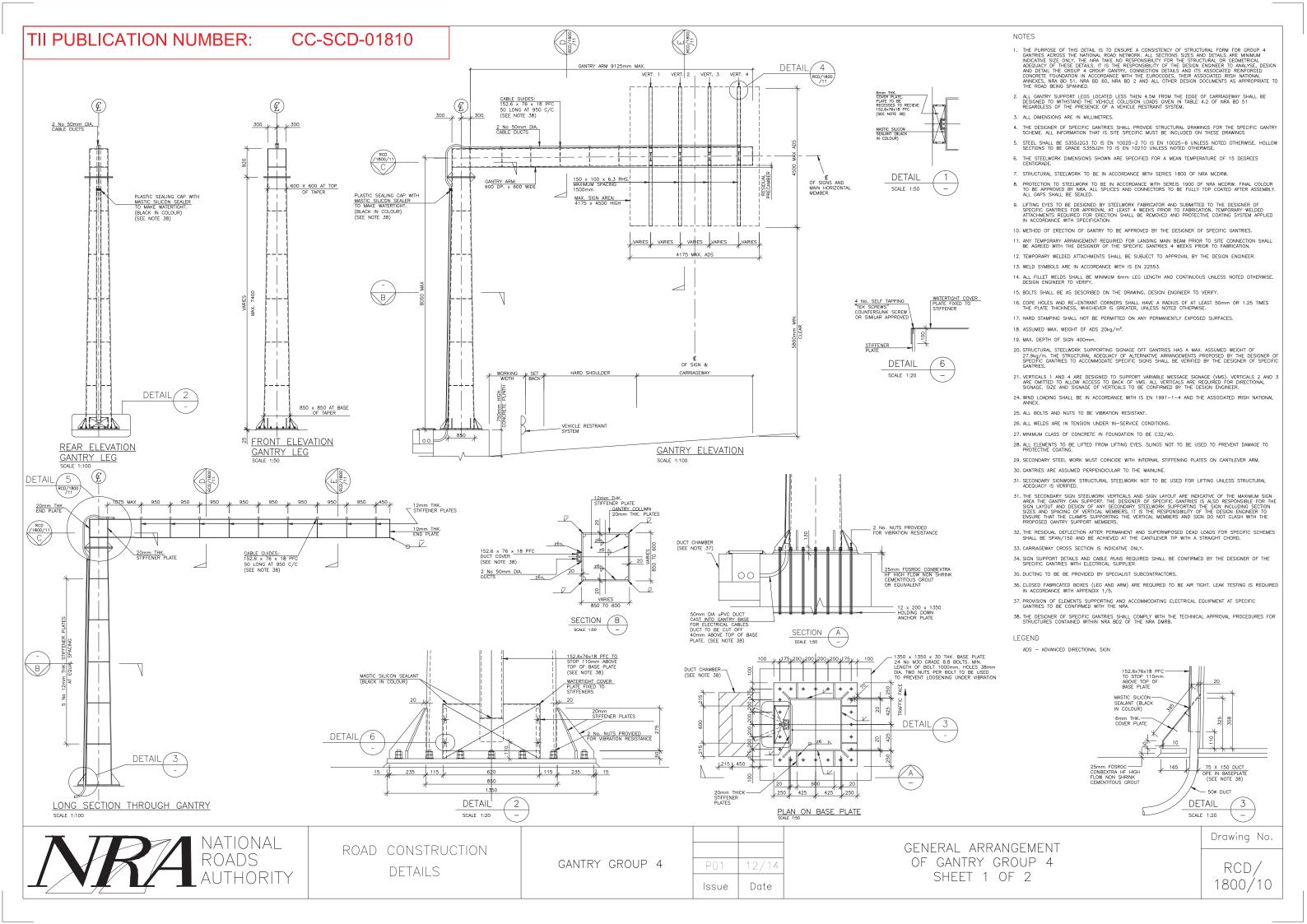
NATIONAL ROADS AUTHORITY

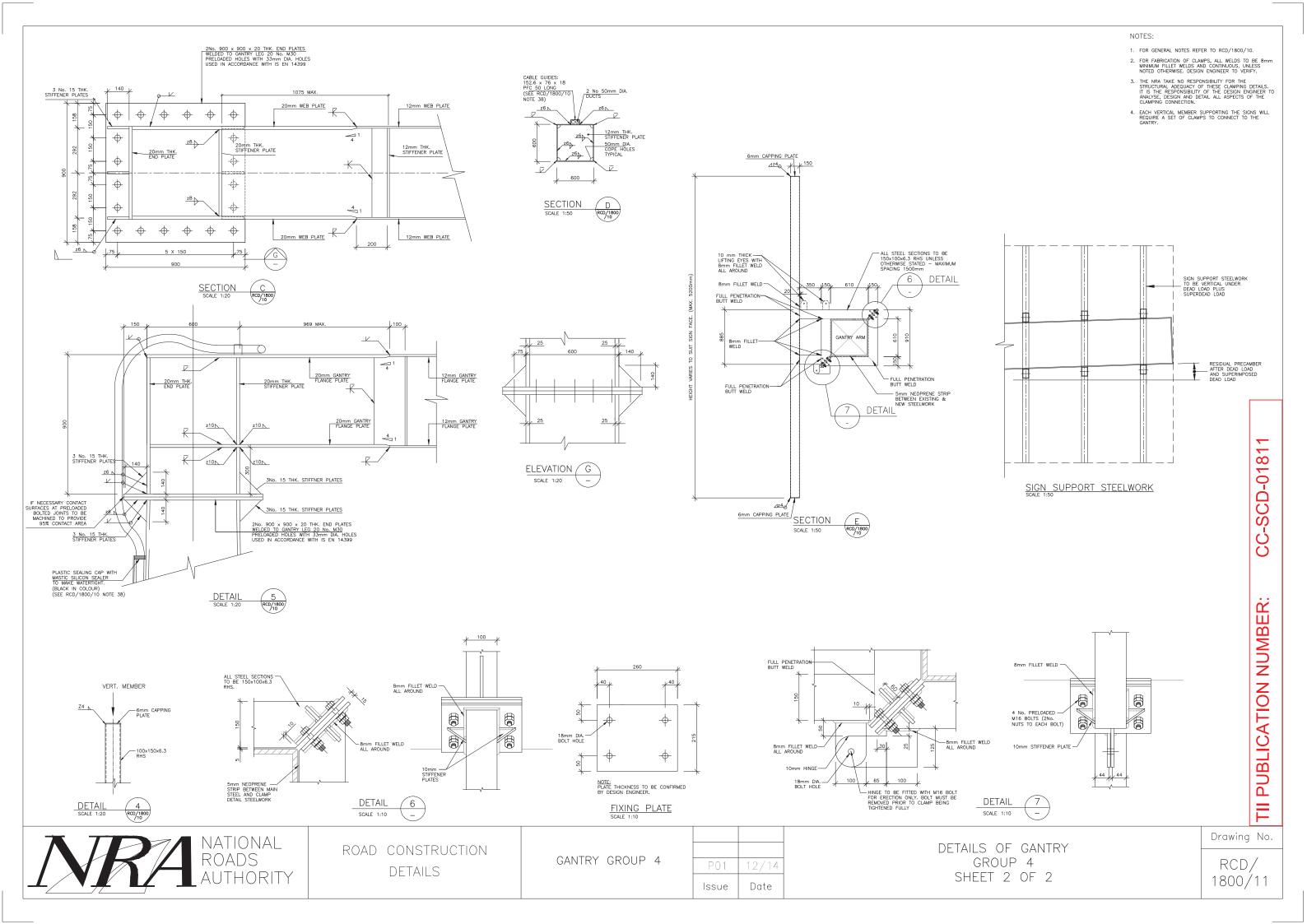
ROAD CONSTRUCTION DETAILS

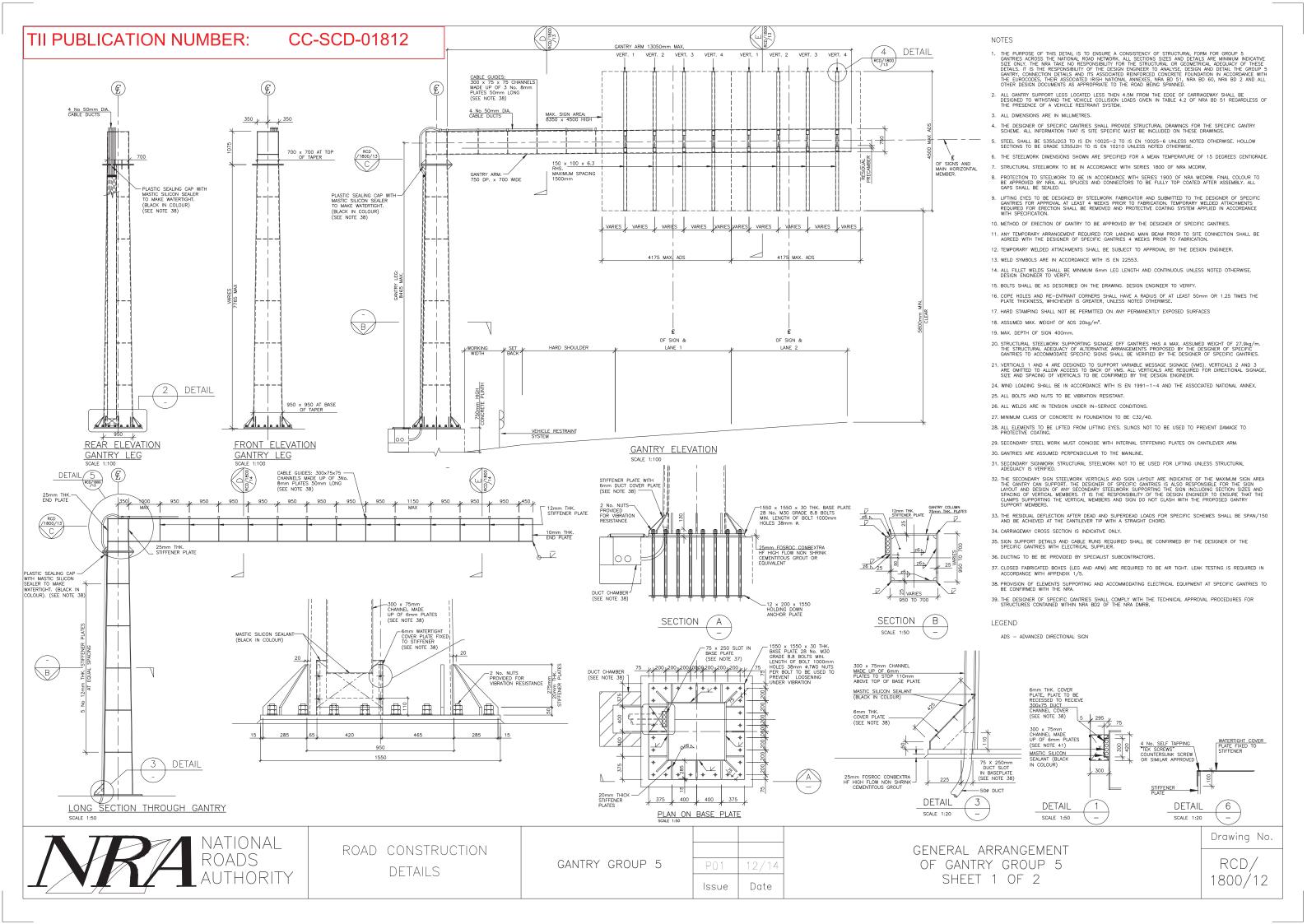
GANTRY GROUP 3

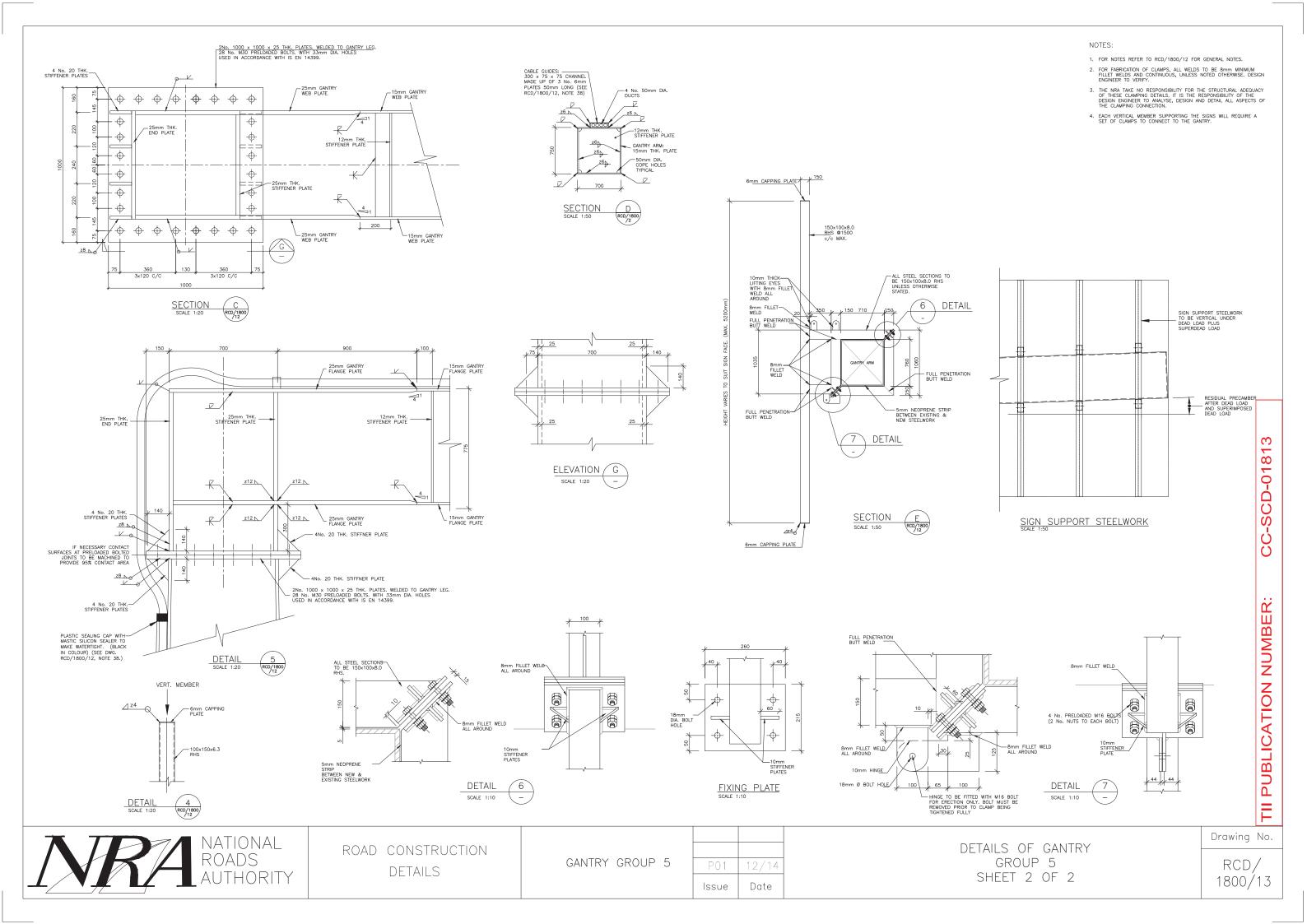
P01 12/14 Issue Date

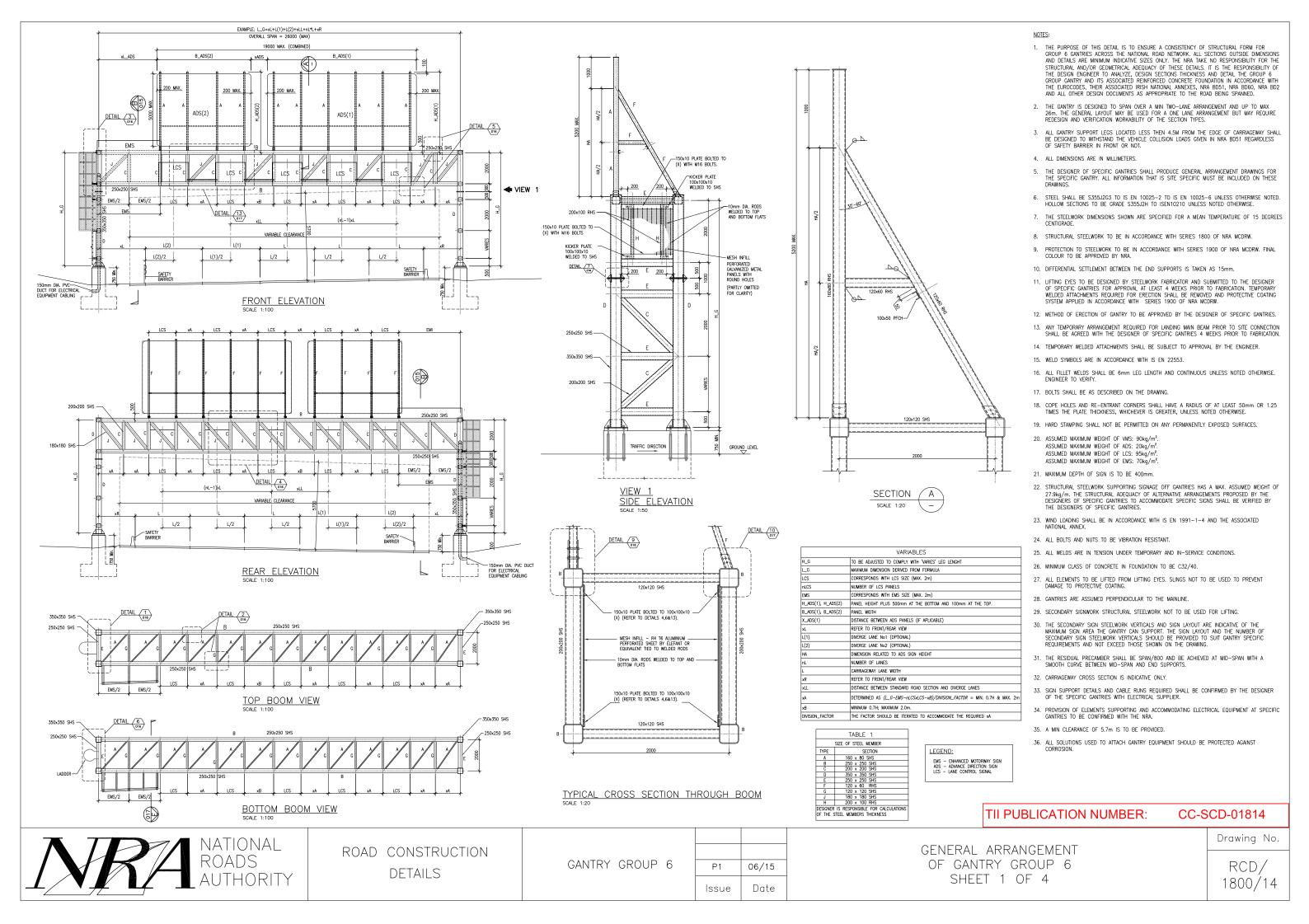
DETAILS OF GANTRY GROUP 3 SHEET 3 OF 3 Drawing No.

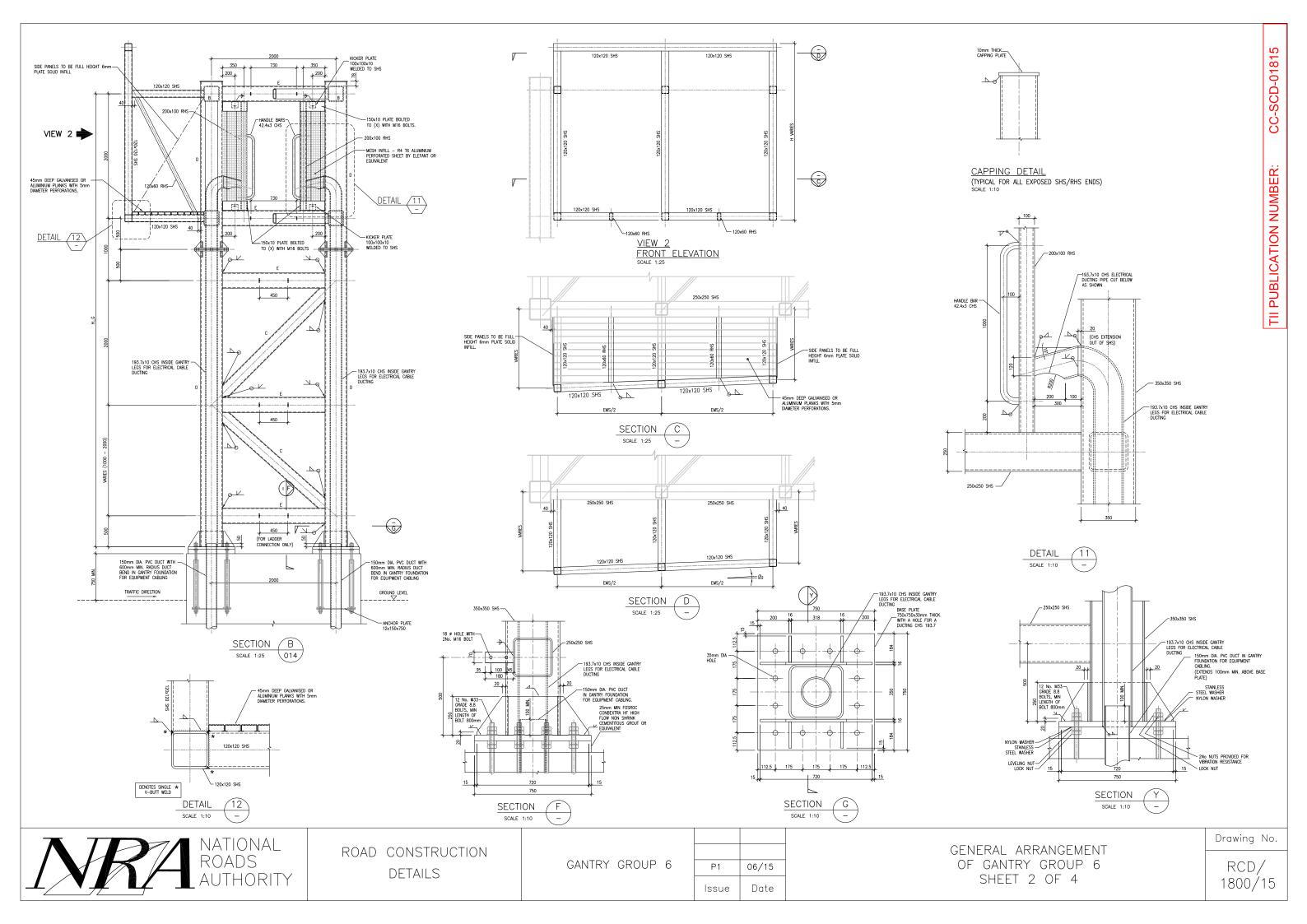


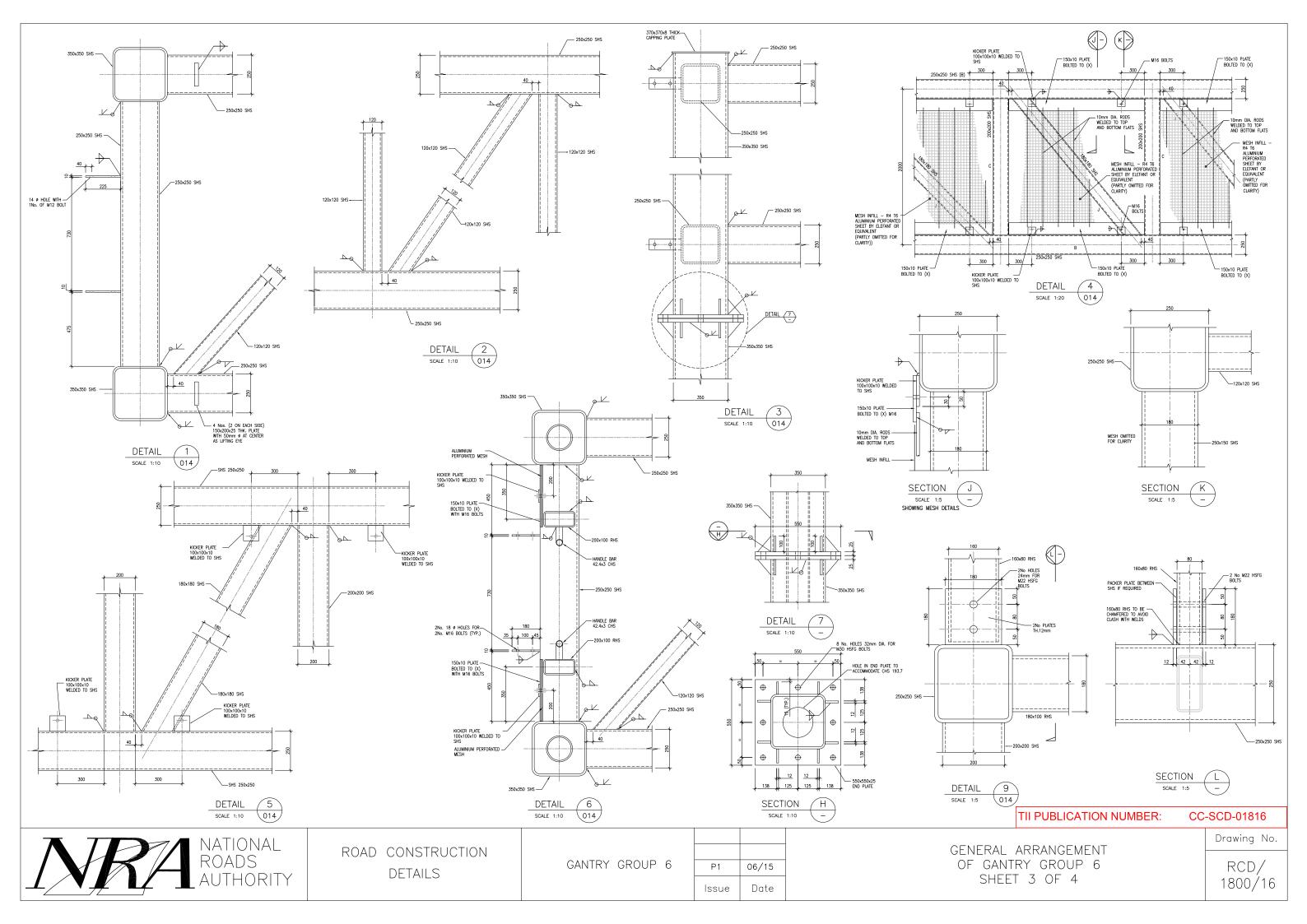


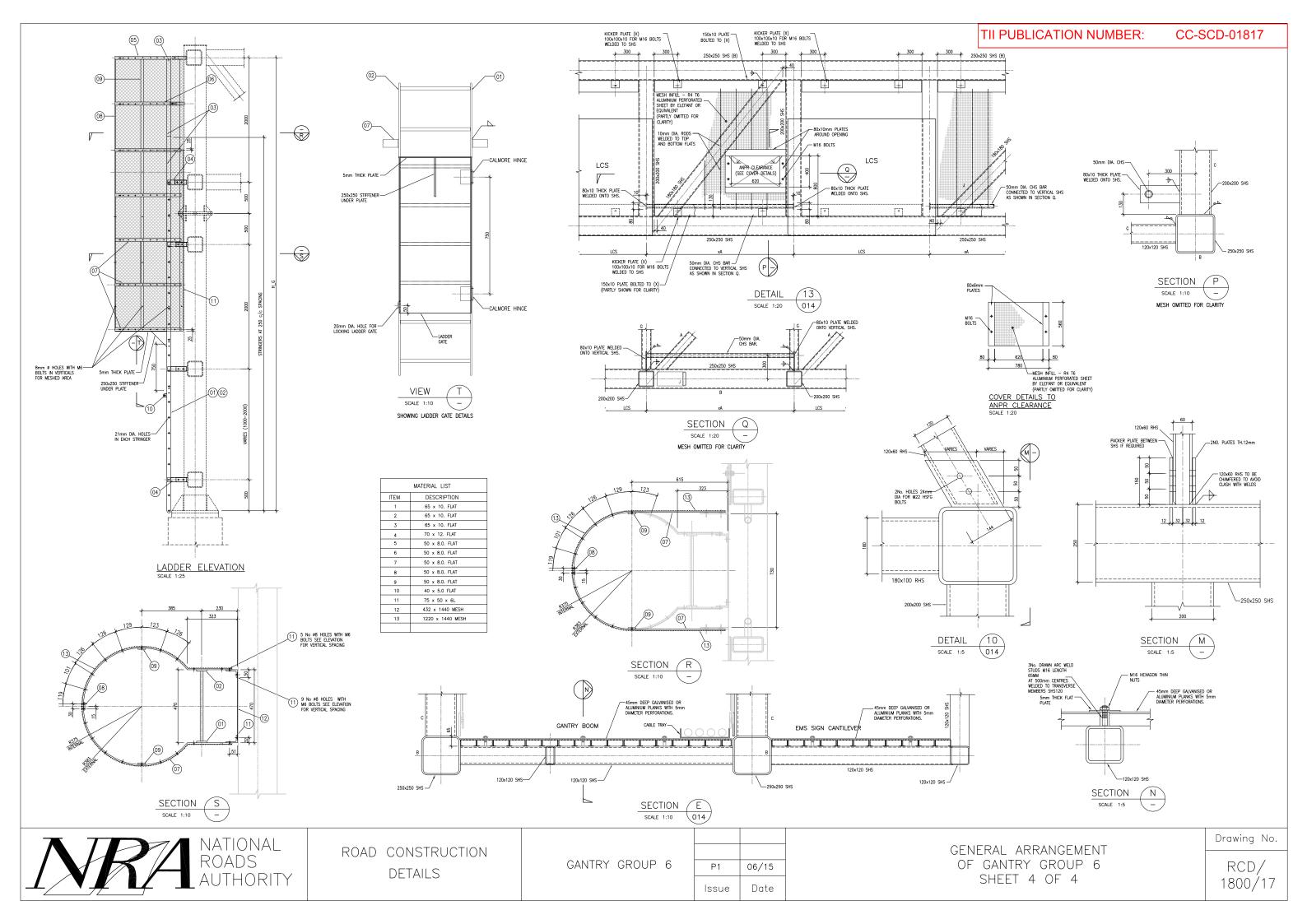


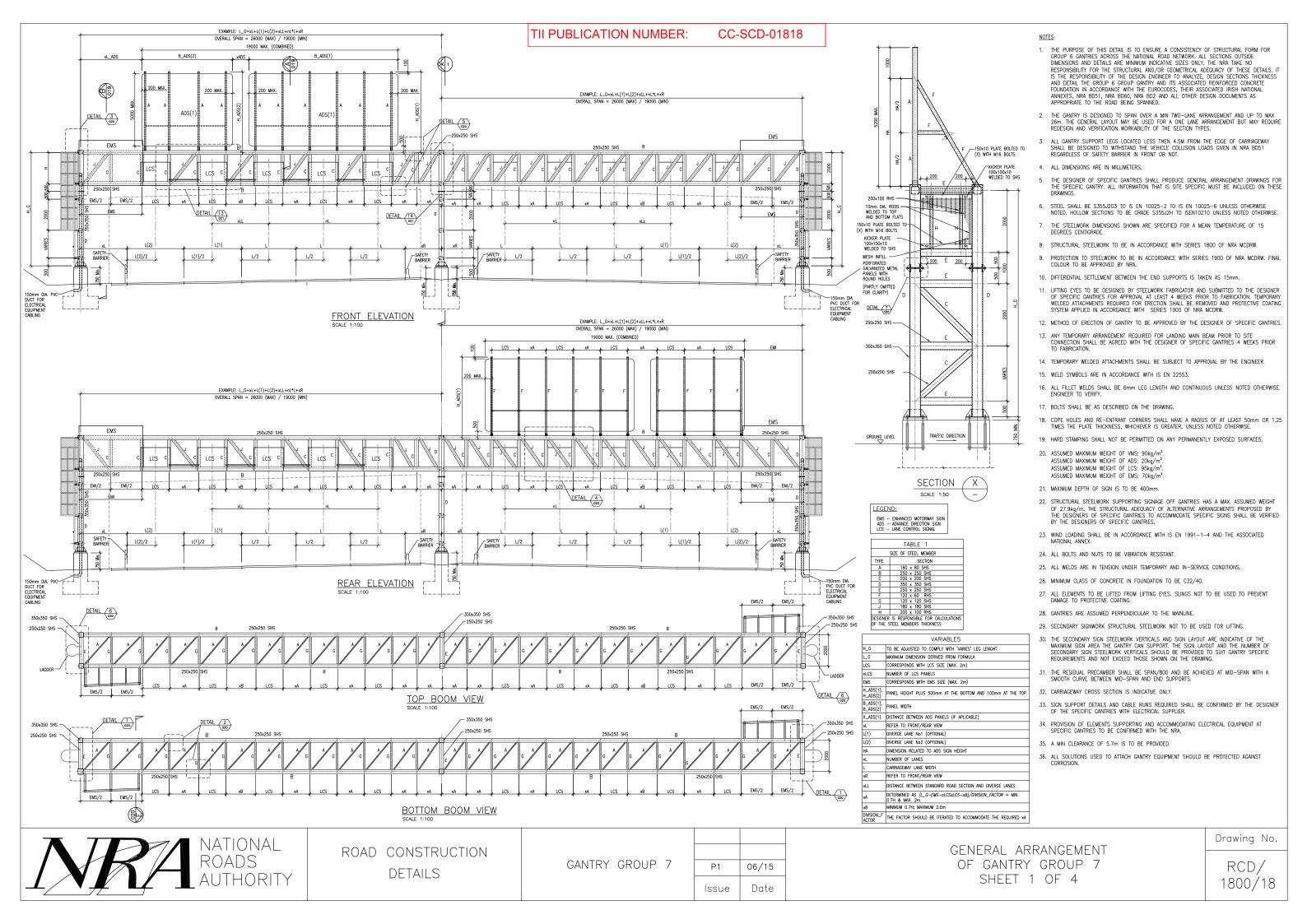


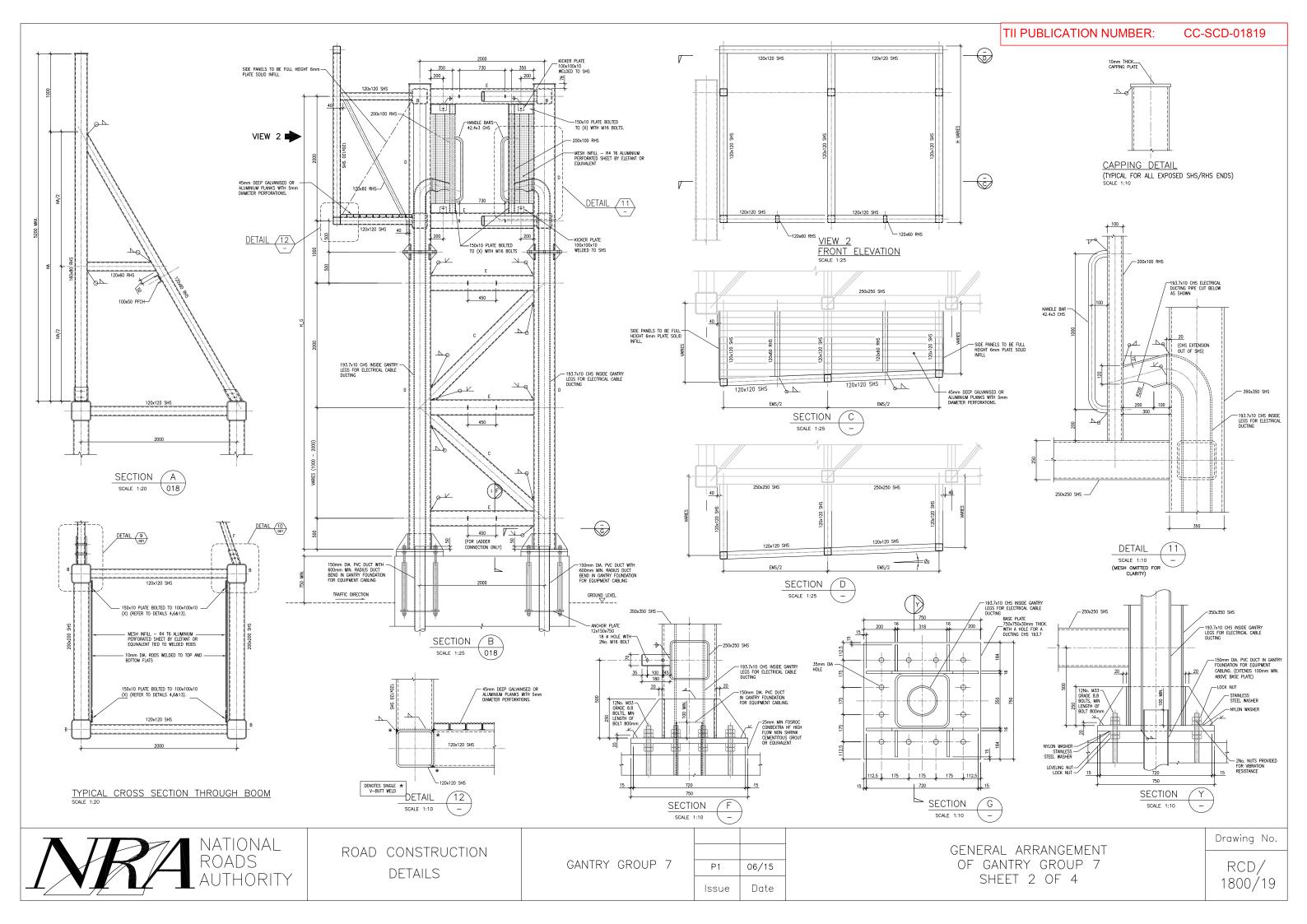


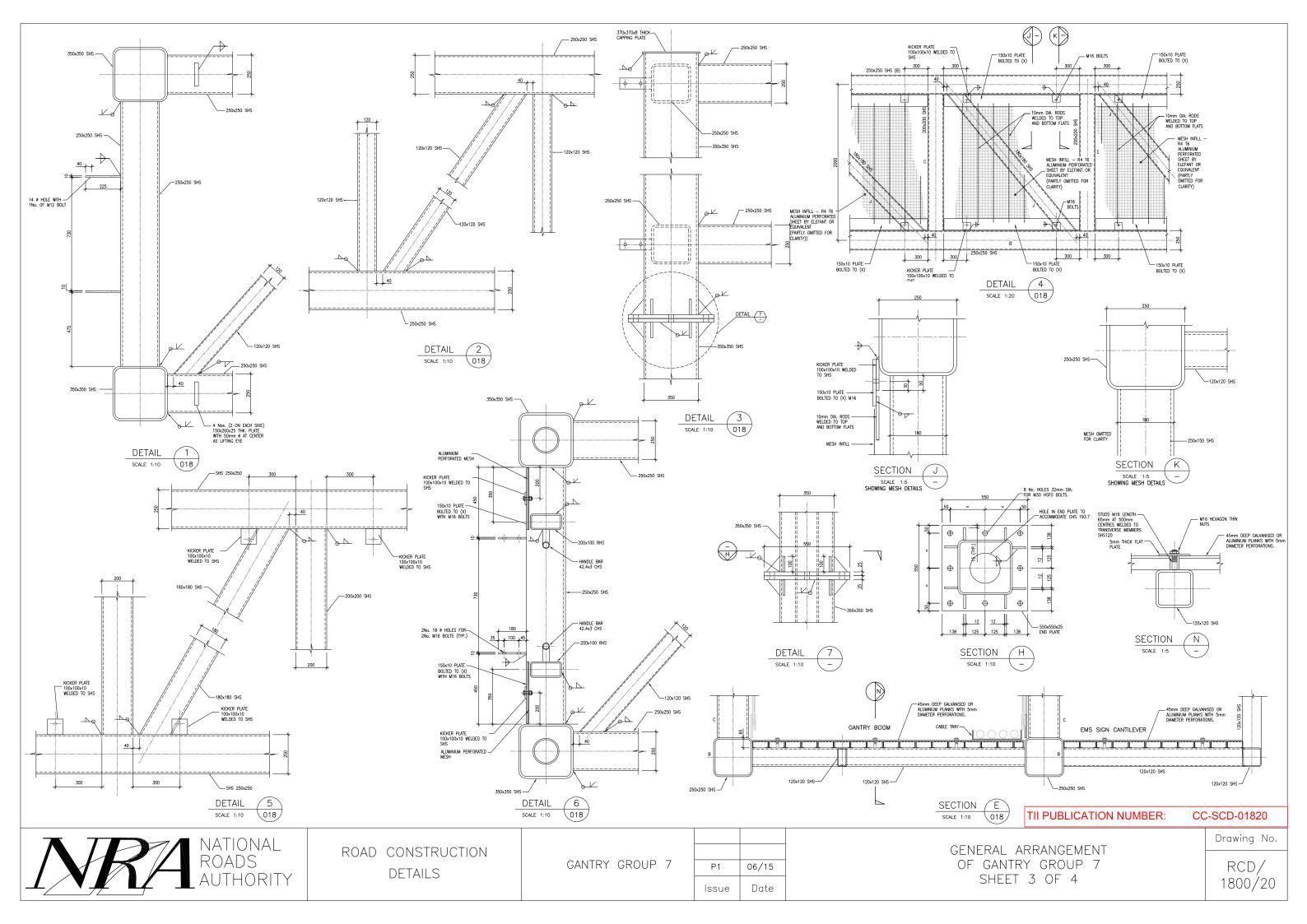


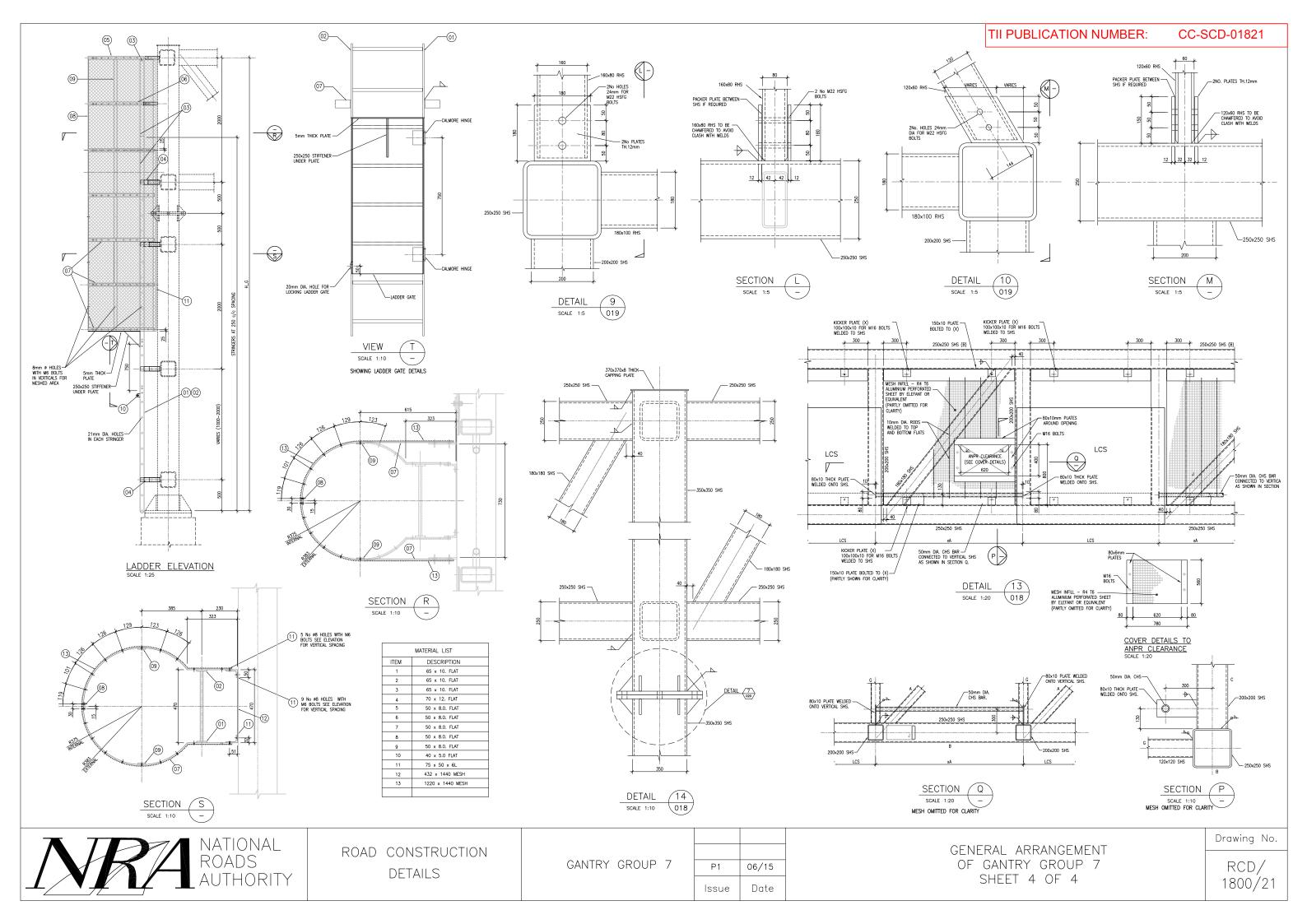


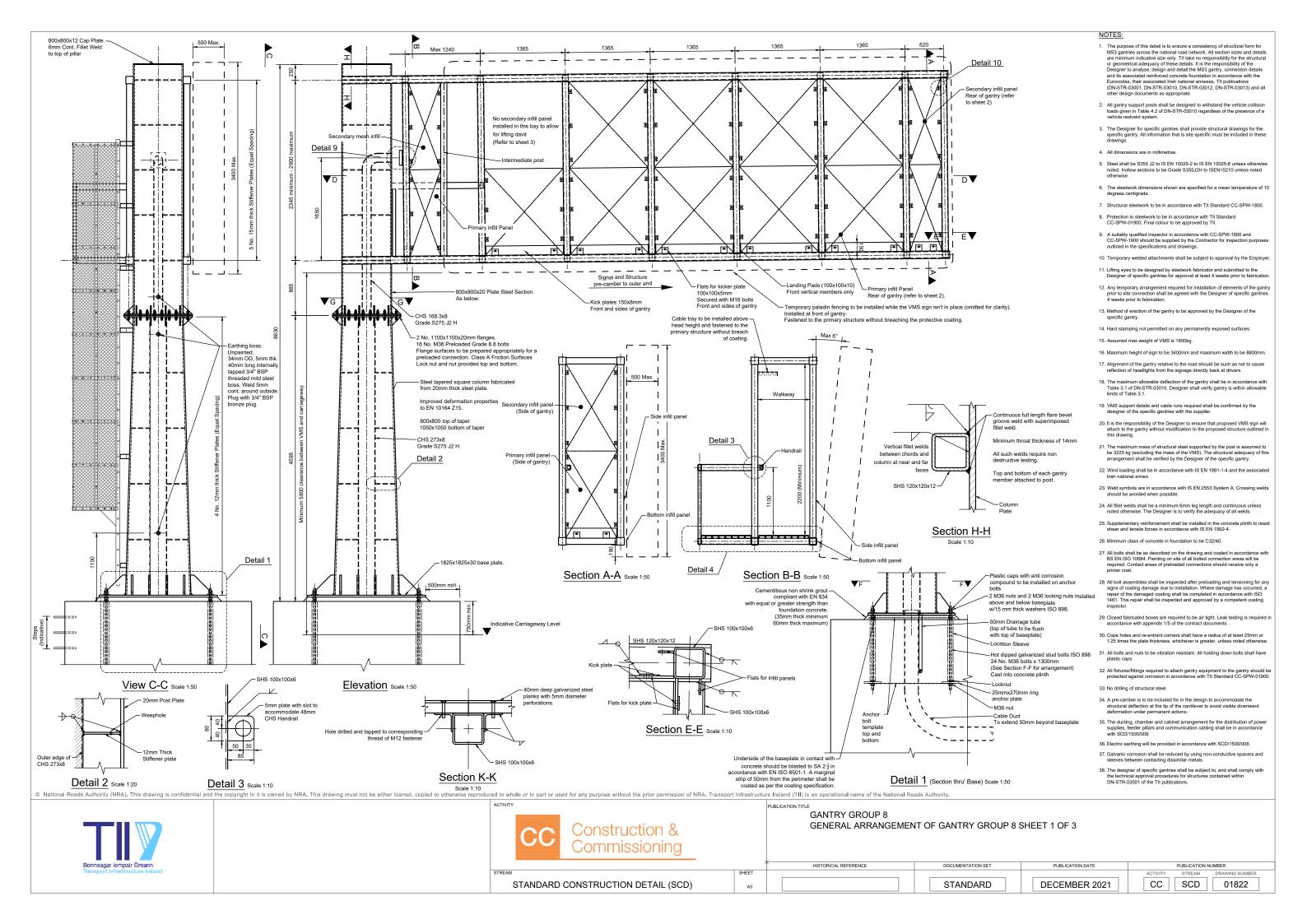


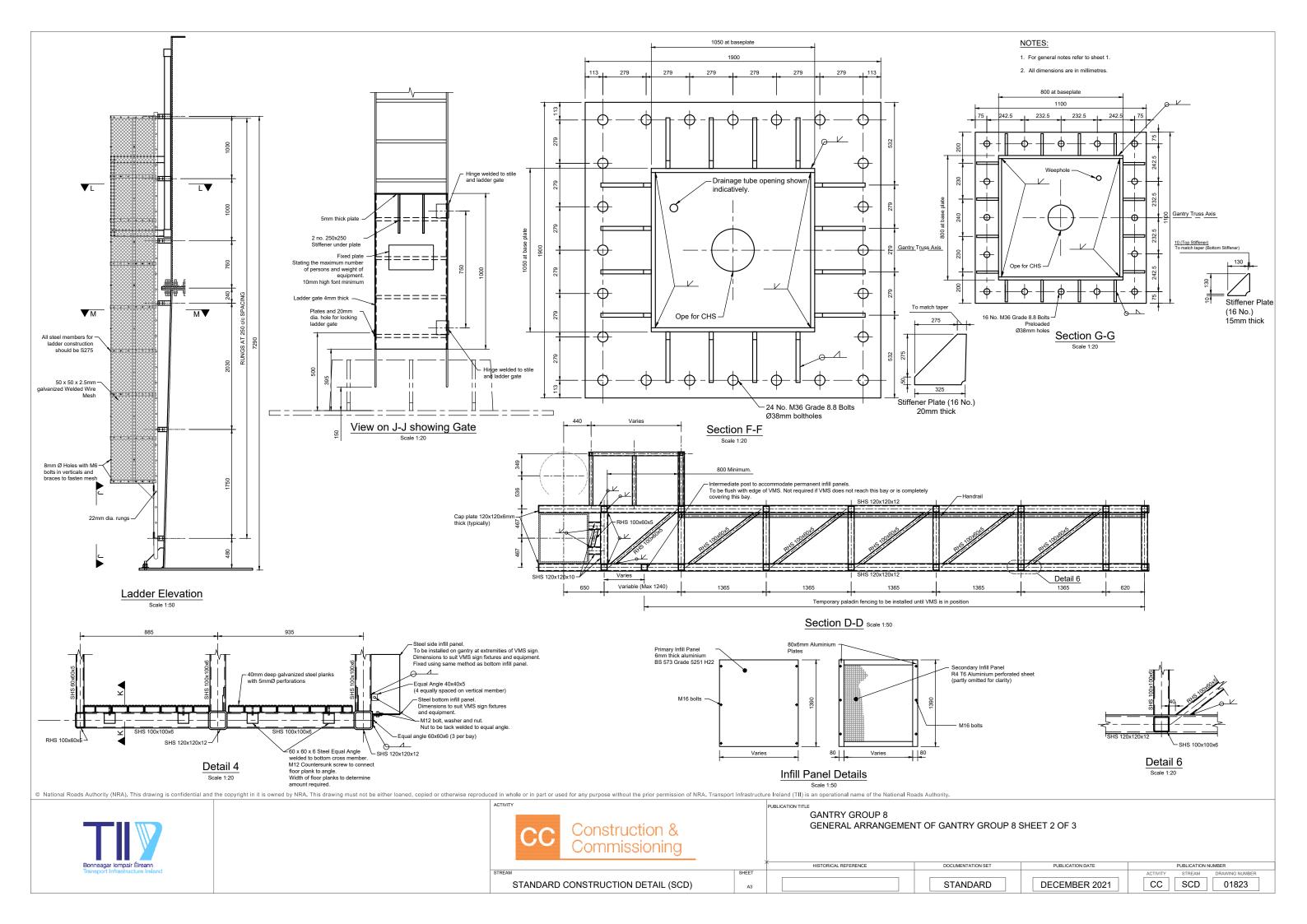


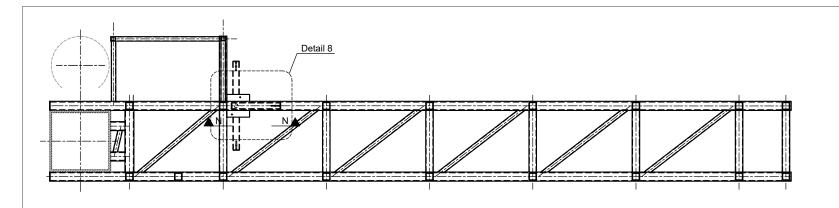




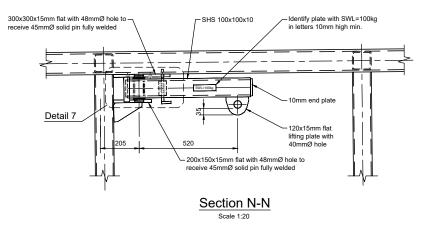


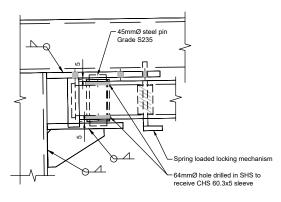




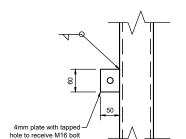


Lifting Davit Location Plan

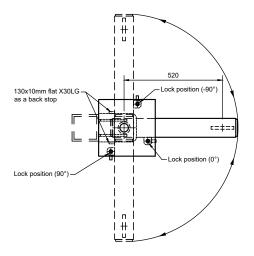




Detail 7



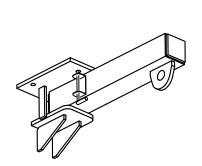
Detail 10



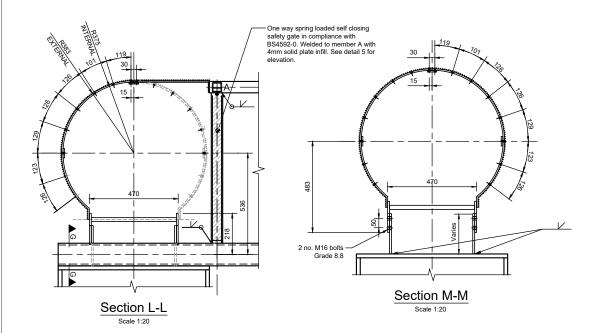
Detail 8
Scale 1:20

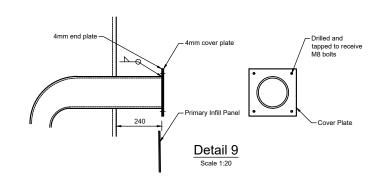
NOTES:

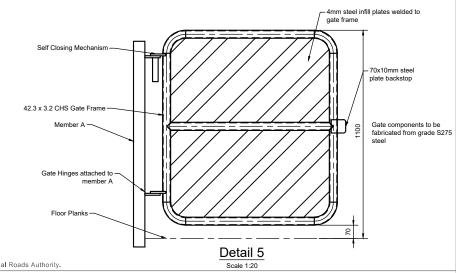
- 1. For general notes refer to sheet 1.
- 2. All dimensions are in millimet
- A lifting davit, SWL 100kg, to be sited at back of walkway approximately 2700mm from centre of cantilever post to give 750mm clear 500mm outreach, capable of swinging at least 90 degree in either direction and locking in position.



Isometric View of Lifting Davit







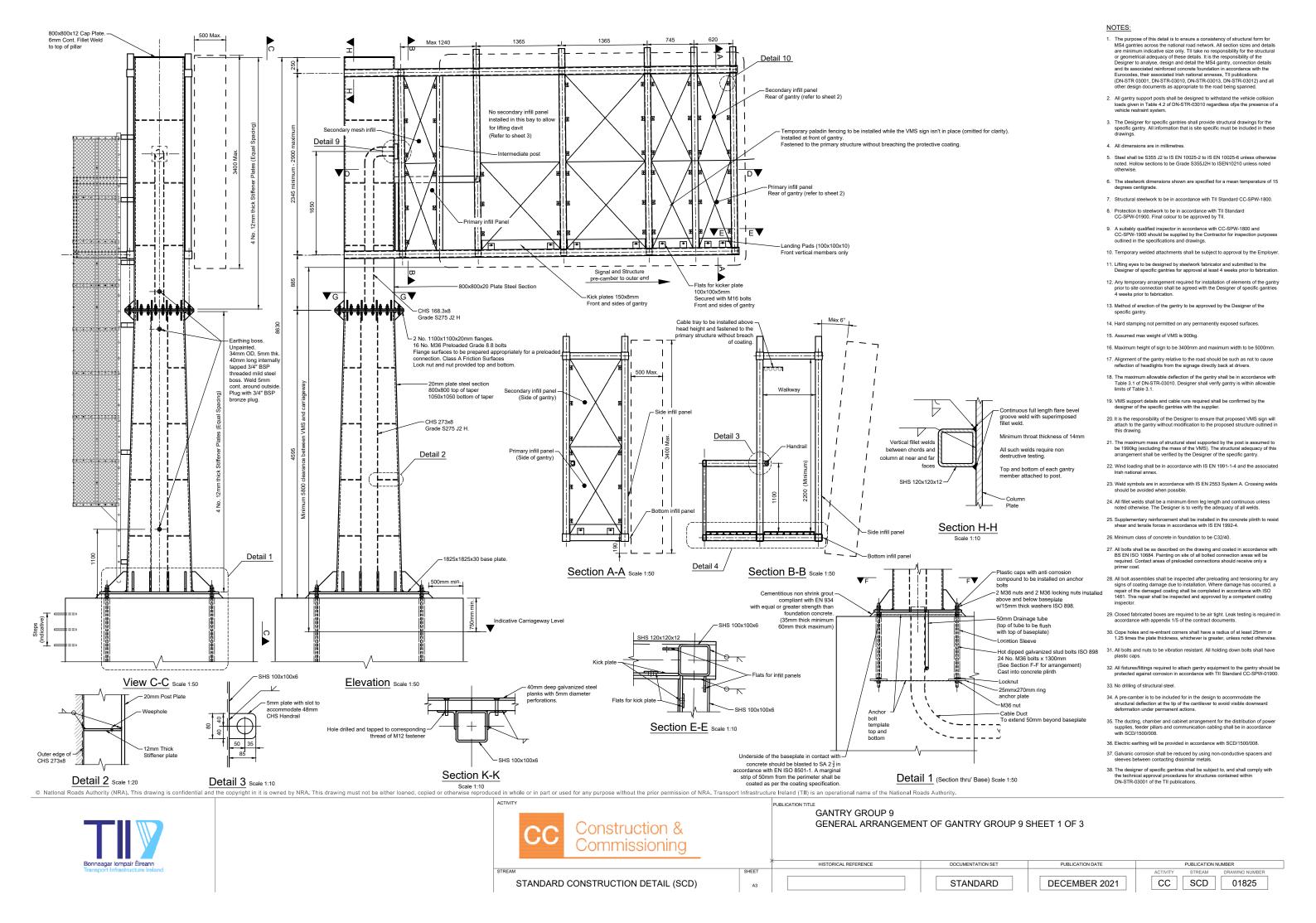
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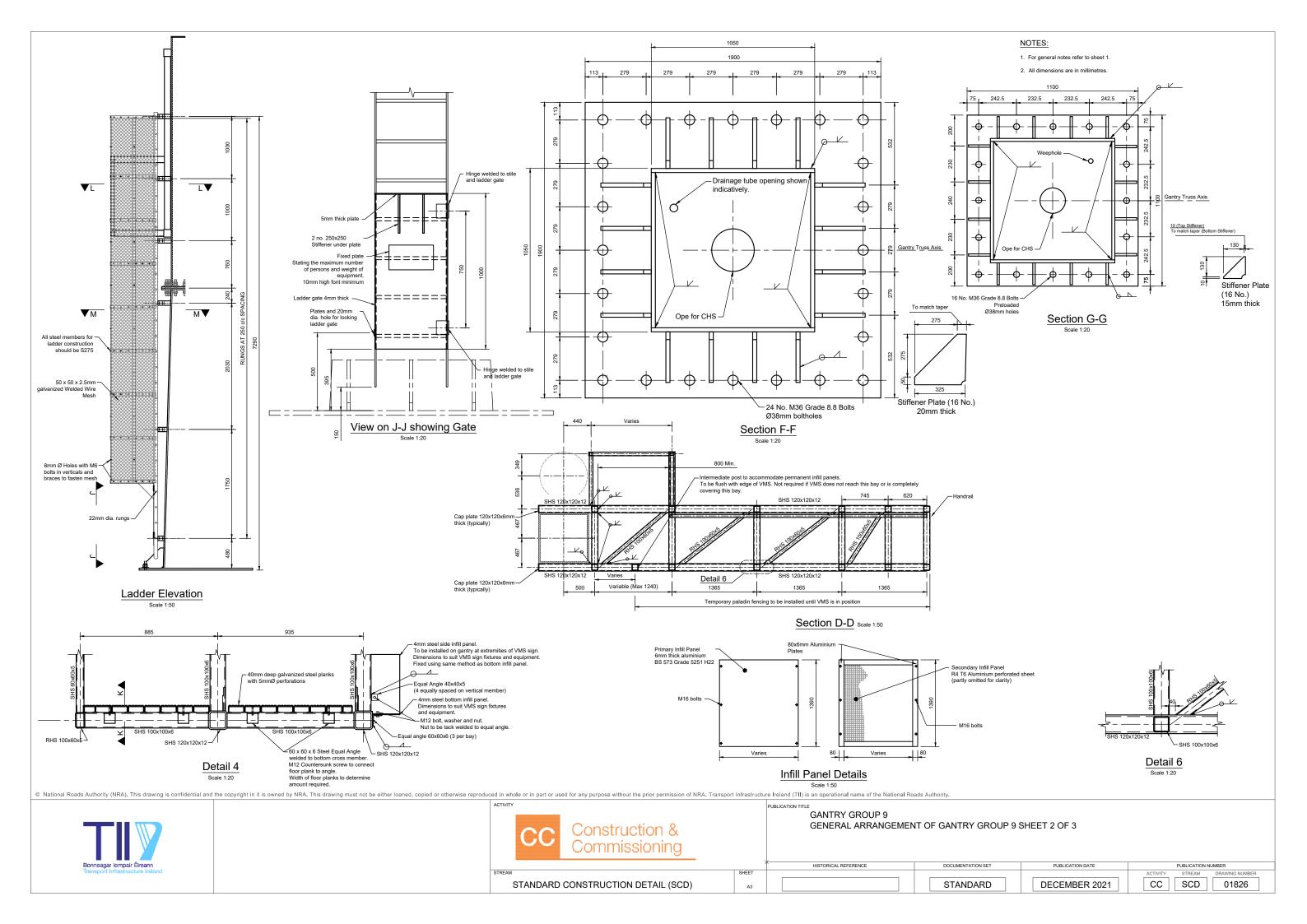


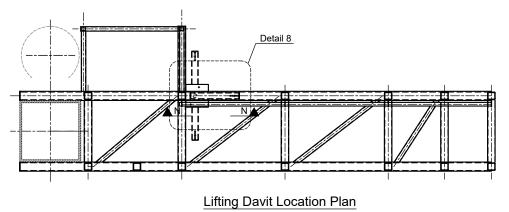
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GANTRY GROUP 8
GENERAL ARRANGEMENT OF GANTRY GROUP 8 SHEET 3 OF 3

Commissioning					
		HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE	PUBLICATION NUMBER
TREAM	SHEET				ACTIVITY STREAM DRAWING NUMBER
STANDARD CONSTRUCTION DETAIL (SCD)	A3		STANDARD	DECEMBER 2021	CC SCD 01824







-SHS 100x100x10

□ 200x150x15mm flat with 48mmØ hole to receive 45mmØ solid pin fully welded

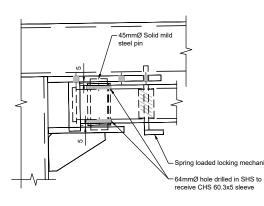
Section N-N

receive 45mmØ solid pin fully welded

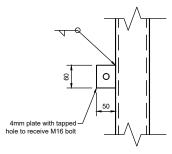
Detail 7

Identify plate with SWL=100kg in letters 10mm high min.

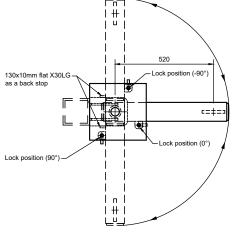
lifting plate with 40mmØ hole



Detail 7



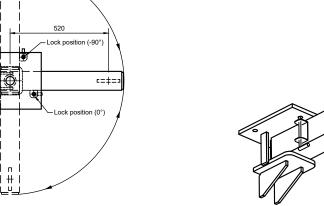
Detail 10



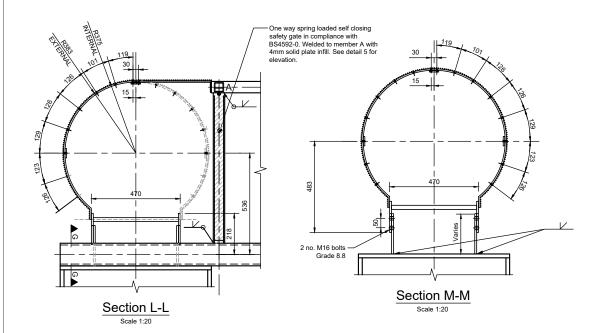
Detail 8

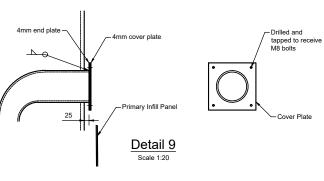
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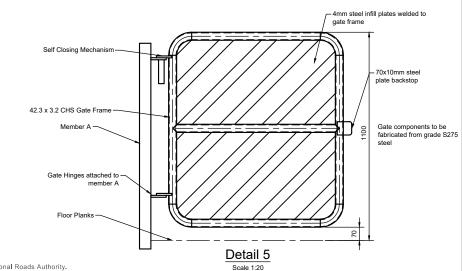
- 1. For general notes refer to sheet 1.
- A lifting davit, SWL 100kg, to be sited at back of walkway approximately 2700mm from centre of cantilever post to give 750mm clear 500mm outreach, capable of swinging at least 90 degree in either direction and locking in position.



Isometric View of Lifting Davit







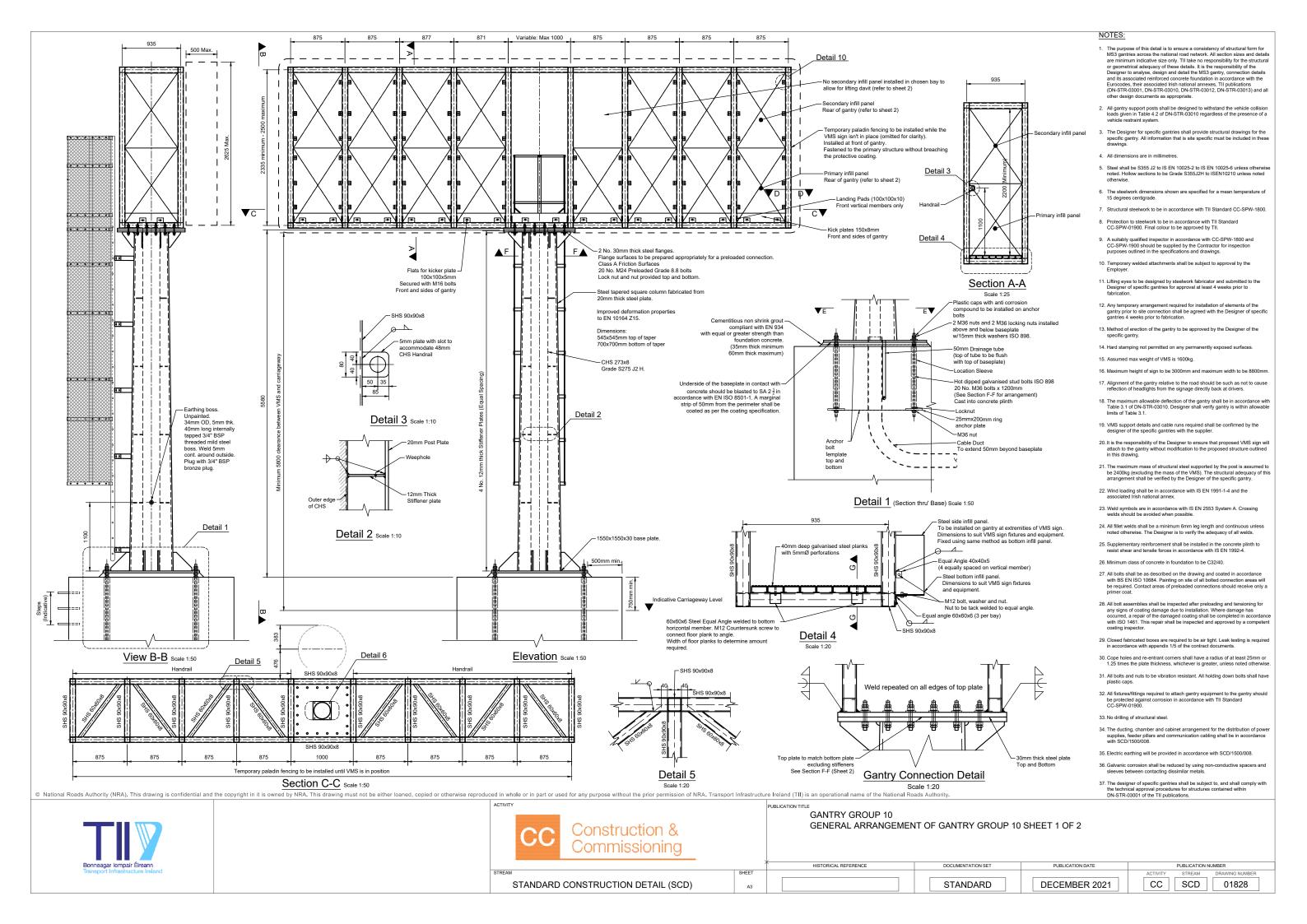
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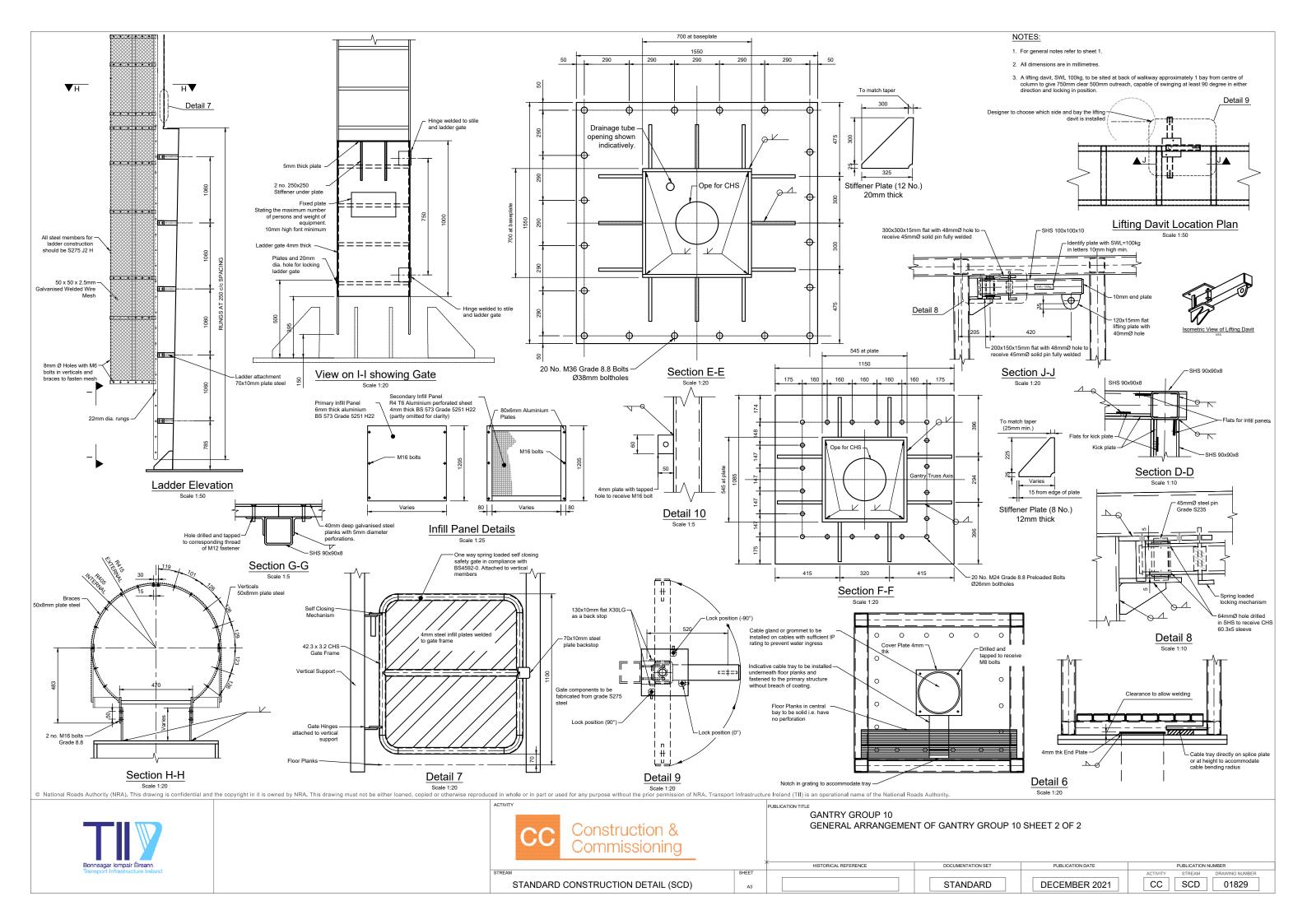


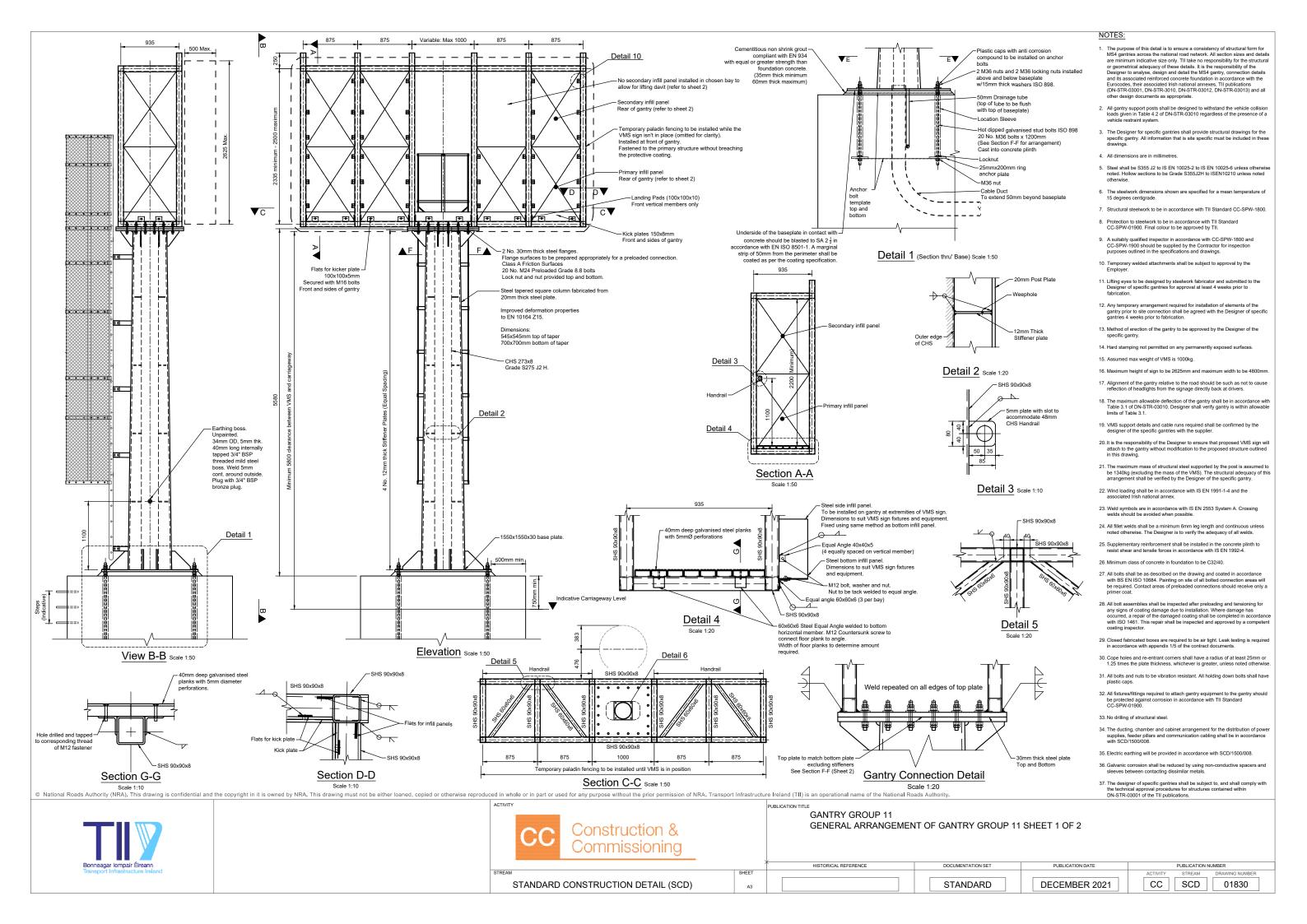
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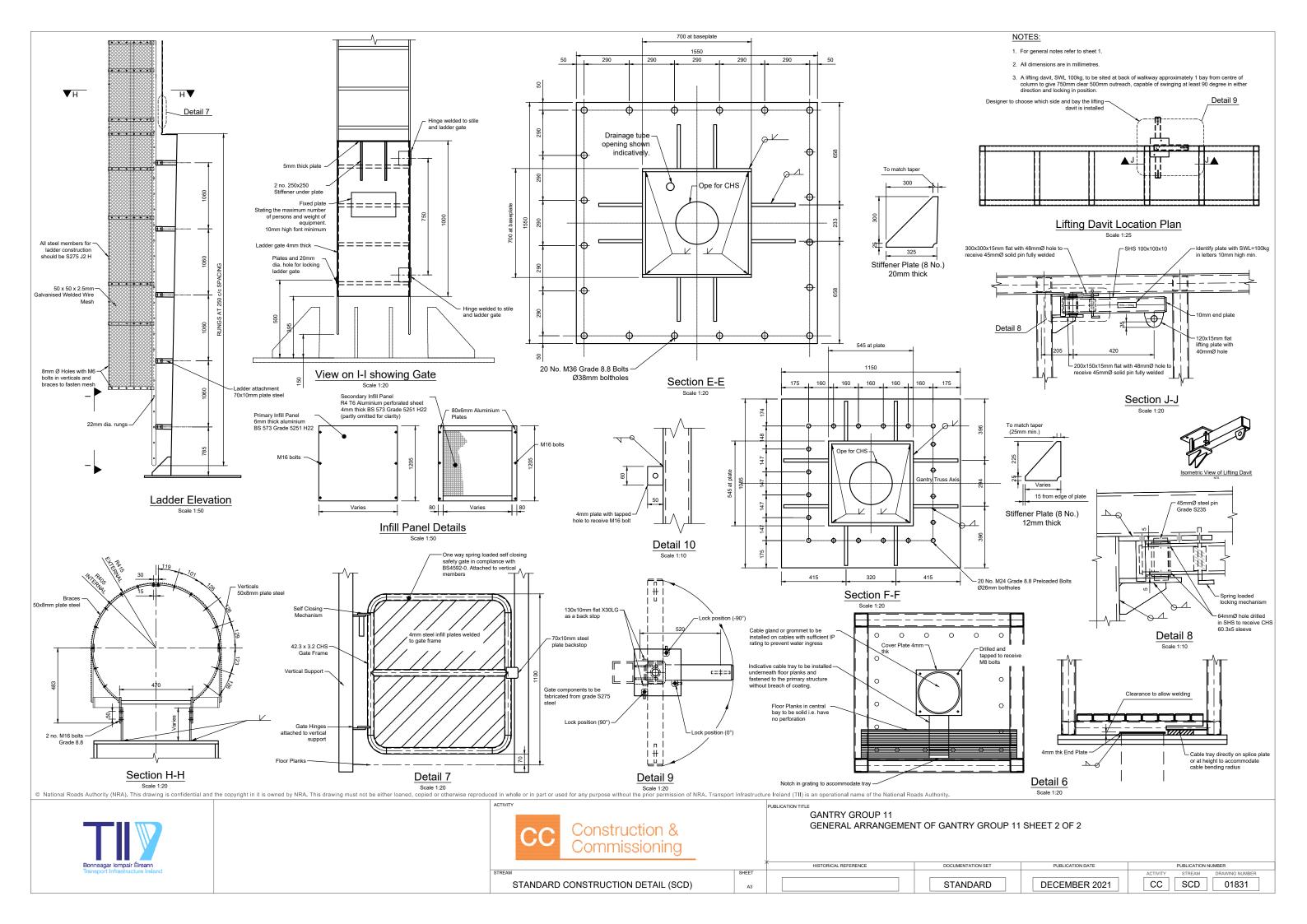
GANTRY GROUP 9 GENERAL ARRANGEMENT OF GANTRY GROUP 9 SHEET 3 OF 3

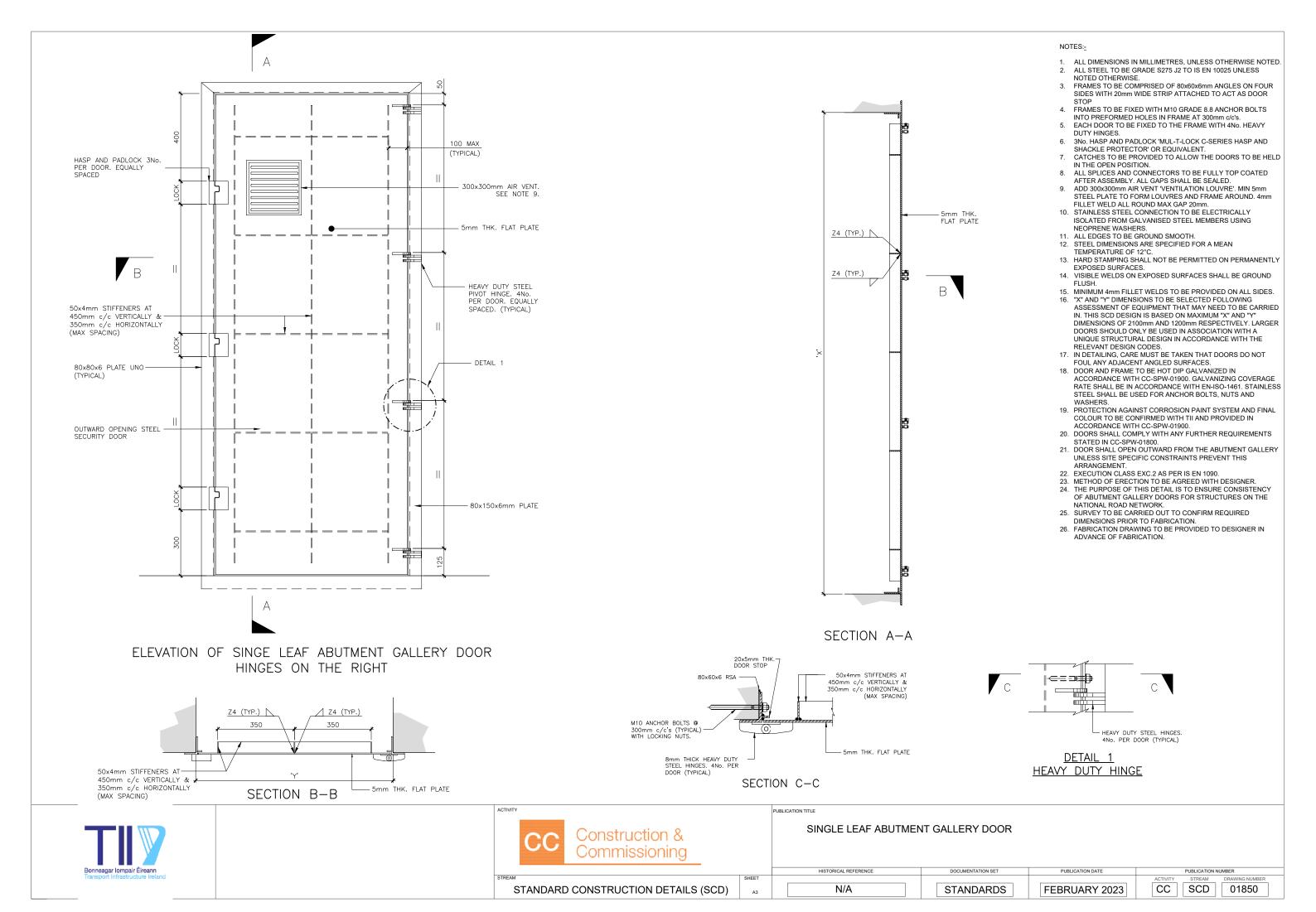
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		HISTORICAL REFERENCE	DOCUMENTATION SET	PUBLICATION DATE		PUBLICATION N	IUMBER	
REAM	SHEET				ACTIVITY	STREAM	DRAWING NUMBER	
STANDARD CONSTRUCTION DETAIL (SCD)	A3		STANDARD	DECEMBER 2021	CC	SCD	01827	

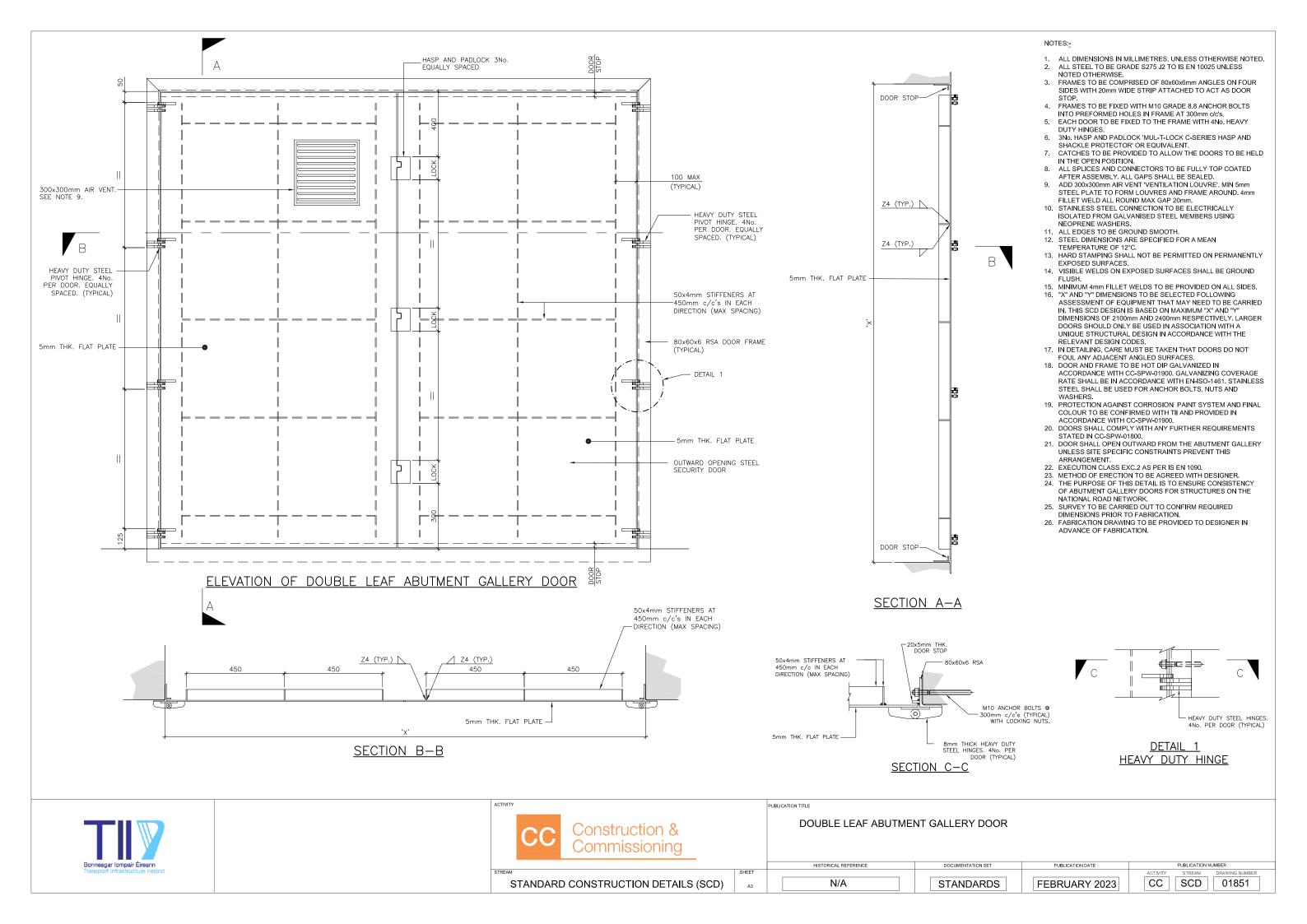


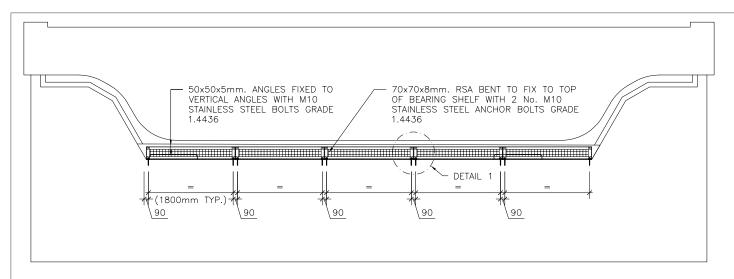




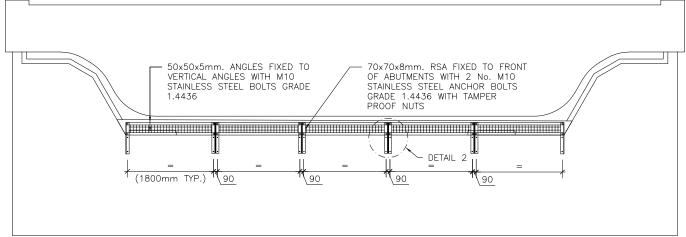




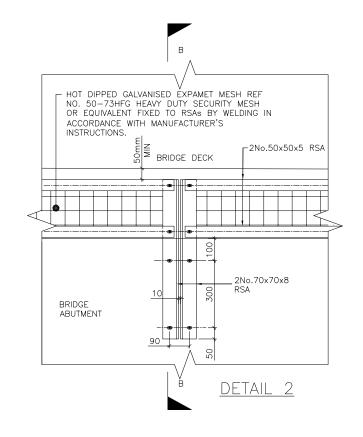




ELEVATION ON ABUTMENT SECURITY MESH

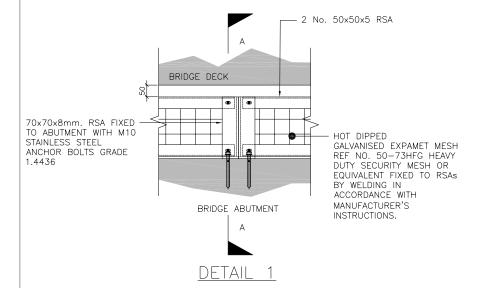


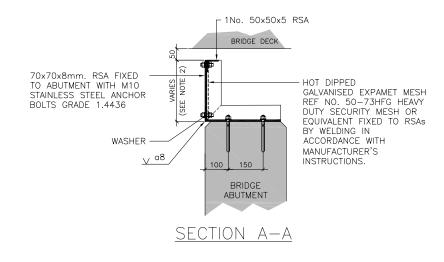
ELEVATION ON ABUTMENT SECURITY MESH (ALTERNATE DETAIL)

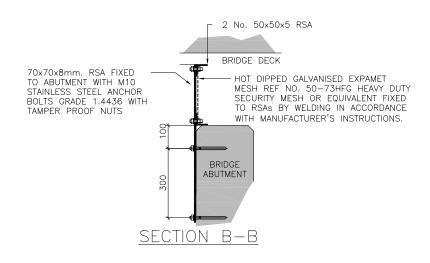


NOTES:

- 1. ALL DIMENSIONS IN MILLIMETRES, UNLESS OTHERWISE NOTED.
- ALTERNATIVE DETAIL ONLY TO BE USED WHERE THE CLEARANCE BETWEEN BRIDGE ABUTMENT AND BRIDGE DECK DOESN'T ALLOW FOR INSTALLATION OF PREFERRED OPTION.
- STRUCTURAL STEELWORK TO BE IN ACCORDANCE WITH SERIES 1800 OF TII SPECIFICATION FOR WORKS. ALL STEEL TO BE GRADE S275 J2 UNLESS NOTED OTHERWISE.
- ALL SPLICES AND CONNECTORS TO BE FULLY TOP COATED AFTER ASSEMBLY. ALL GAPS SHALL BE SEALED.
- 5. STAINLESS STEEL CONNECTION TO BE ELECTRICALLY ISOLATED FROM GALVANISED STEEL MEMBERS USING NEOPRENE WASHERS.
- 6. ALL EDGES TO BE GROUND SMOOTH.
- 7. STEEL DIMENSIONS ARE SPECIFIED FOR A MEAN TEMPERATURE OF 12°C
- 8. HARD STAMPING SHALL NOT BE PERMITTED ON PERMANENTLY EXPOSED SURFACES.
- VISIBLE WELDS ON EXPOSED SURFACES SHALL BE GROUND FLUSH.
- 10. ALL NUTS TO BE LOCKING NUTS.
- 11. MINIMUM 4mm FILLET WELDS TO BE PROVIDED ON ALL SIDES.
- 12. MESH AND FRAME TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH CC-SPW-01900. GALVANIZING COVERAGE RATE SHALL BE IN ACCORDANCE WITH EN-ISO-1461. STAINLESS STEEL SHALL BE USED FOR ANCHOR BOLTS, NUTS AND WASHEDS.
- 13. MAXIMUM SIZE OF OPENINGS IN MESH SECURITY PANEL SHALL BE $50 \mathrm{MM} \times 50 \mathrm{MM}$
- 14. ALTERATION TO PROPOSED GALVANISED STRUCTURAL STEELWORK AFFECTED BY HOLES FOR BOLTS OR LOCAL CUTTING WILL BE PROVIDED WITH PROTECTIVE COATING IN ACCORDANCE WITH THE ORIGINAL COATING SYSTEM AND AGREED WITH THE DESIGNER. FOR PROPOSED STEELWORK SITE GALVANISING PAINT WITH EQUIVALENT PROTECTION TO THE PROTECTIVE COATING SYSTEM (CORROSITIVITY CATEGORY C5 AND 'VERY HIGH' DURABILITY) SHALL BE PROVIDED.
- 15. METHOD OF ERECTION TO BE AGREED WITH DESIGNER.
- 16. THE PURPOSE OF THIS DETAIL IS TO ENSURE CONSISTENCY OF ABUTMENT MESH FOR STRUCTURES ON THE NATIONAL ROAD
- 17. FOR EXISTING STRUCTURES, SURVEY TO BE CARRIED OUT TO CONFIRM REQUIRED DIMENSIONS PRIOR TO FABRICATION.
- 18. FABRICATION DRAWING TO BE PROVIDED TO DESIGNER IN ADVANCE OF FABRICATION.
- 19. THIS DESIGN IS FOR TYPICAL GAPS OF UP TO 500MM BETWEEN THE SUPERSTRUCTURE AND ABUTMENT, LARGER GAPS WILL REQUIRE A BESPOKE DESIGN
- 20. FOR EXISTING STRUCTURES, REINFORCEMENT SURVEY TO BE CARRIED OUT PRIOR TO FABRICATION TO AVOID CLASHING BETWEEN REBAR AND FIXINGS.
- 21. THE MINIMUM DESIGN LOAD OF EACH FASTENER IS 2890N.









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STREAM STANDARD CONSTRUCTION DETAILS (SCD)

ABUTMENT GALLERY SECURITY MESH

PUBLICATION TITLE

ABOTMENT GALLERY SECONTT MEST

HISTORICAL REFERENCE DOCUMENTATION SET PUBLICATION DATE PUBLICATION NUMBER

N/A STANDARDS FEBRUARY 2023 CC SCD 01852







Ionad Ghnó Gheata na Páirce, Stráid Gheata na Páirce, Baile Átha Cliath 8, D08 DK10, Éire



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