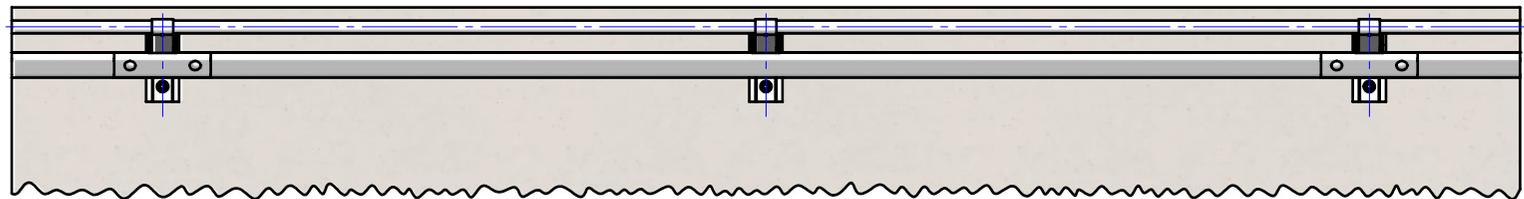


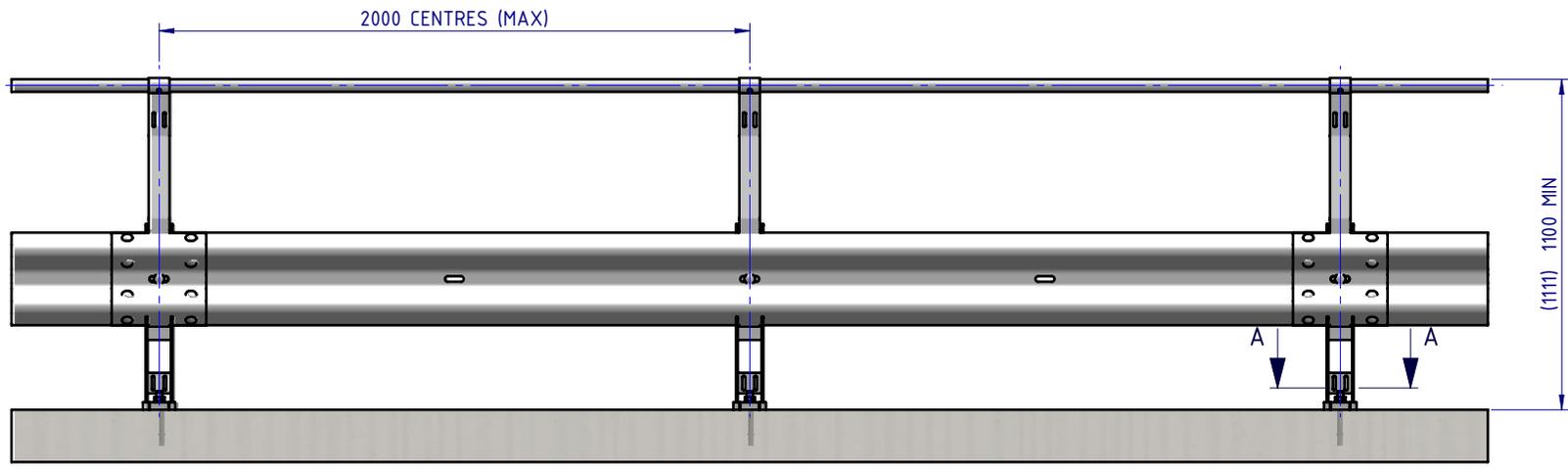
Crash Test Performance				
Vehicle Type	Impact Speed	Impact Height	Impact Energy	Barrier Configuration
1500 kg	15 km/h	0.5 m	12.9 kJ	4 m w-beam supported by three (3) posts at 2.0 m centres positioned on the outside edge of a 150 mm elevated concrete slab.
2000 kg	13 km/h	0.5 m	13.0 kJ	4 m w-beam supported by three (3) posts at 2.0 m centres positioned on the outside edge of a 150 mm elevated concrete slab.

REVISIONS				
REV.	ZONE	DESCRIPTION	DATE	APPV'D
A		INITIAL ISSUE	22/10/2013	TC
B		NEW HANDRAIL EXTENSION ADDED	12/07/2017	TC
C		REDRAWN FROM AUTOCAD	30/11/2021	HW
D	B5	Updated GR-MX-MX-1010-AG_F, M16x45 B/N ASSY was M16x35	8/12/2021	HW
E		PERFORMANCE & INSTALLATION REQ. TABLES ADDED	21/10/2025	HW

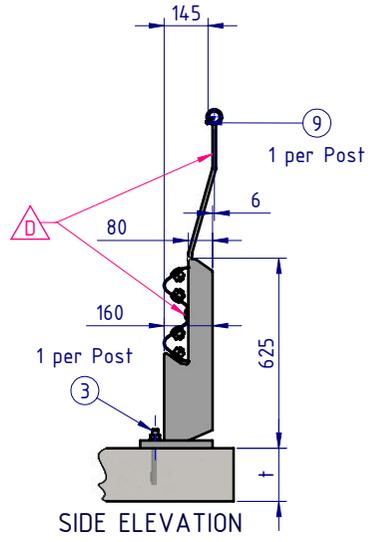
Installation Requirements				
Anchor Type	Drill Depth	Torque	Anchors per Post	Minimum Concrete Slab Thickness (t)
M20 Fischer FBN II	115 mm	200 Nm	1 off	150 mm



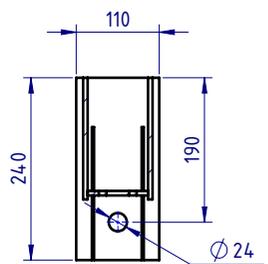
PLAN VIEW



FRONT ELEVATION



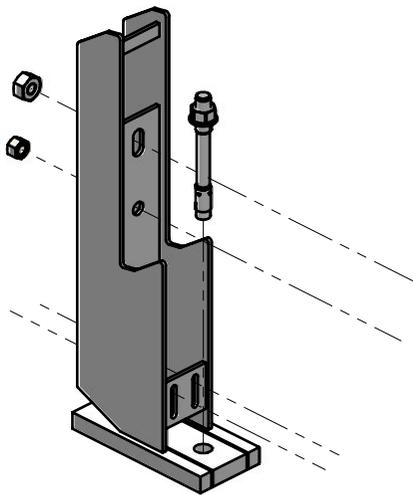
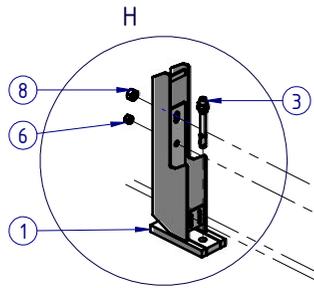
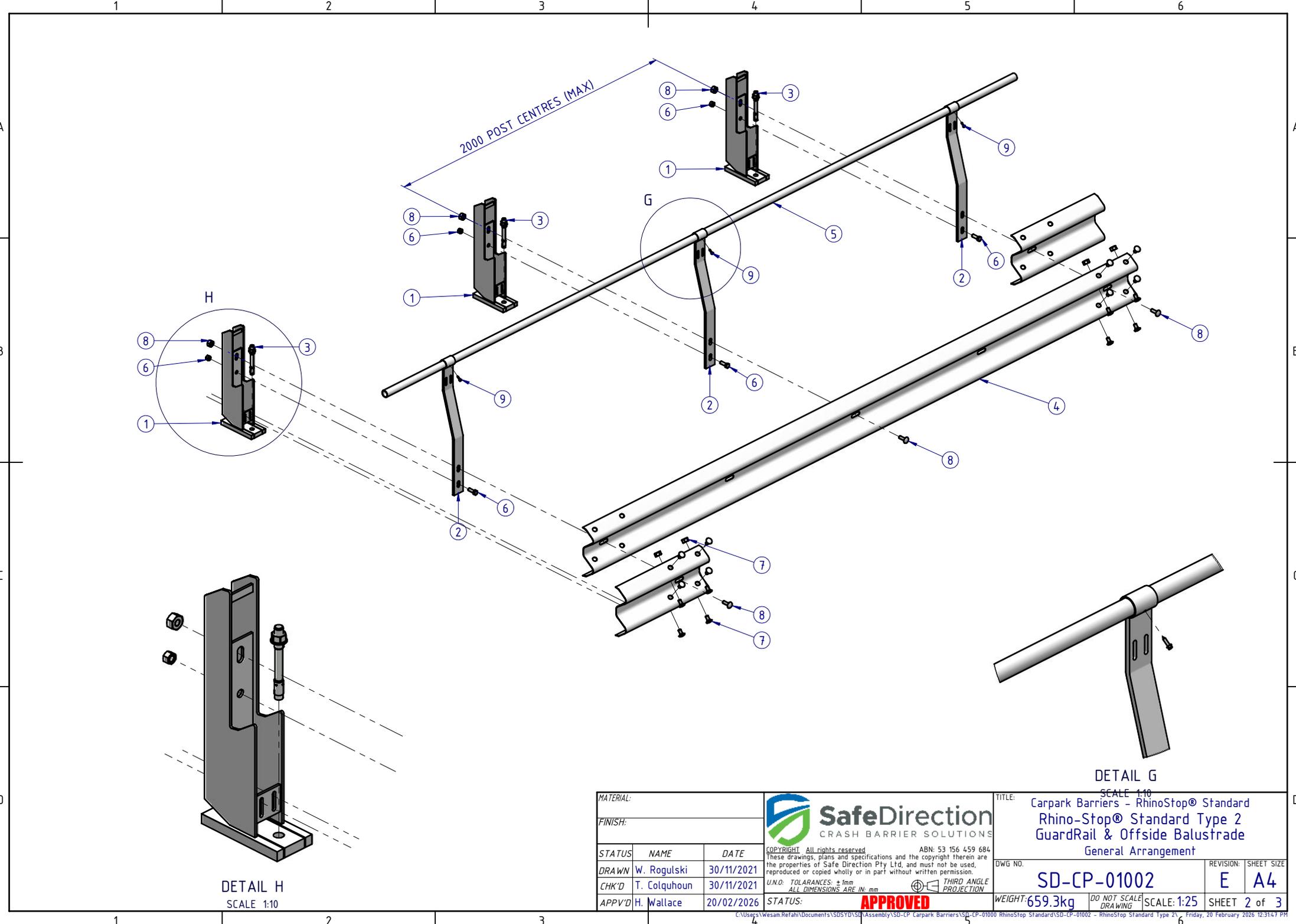
SIDE ELEVATION



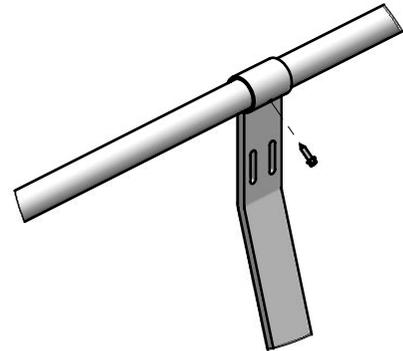
SECTION A-A
BASE PLATE
DETAIL
SCALE 1:10

BOM			
ITEM NO.	PART NUMBER	DESCRIPTION	Weight kg
1	GR-PB-IS-0625-CG	Rhino-Stop® Post	12.3
2	GR-MX-MX-0800-AG	Handrail Extension Type 4	5.3
3	GR-FS-20-0187-HG	FISCHER FBN II, M20x187mm	0.5
4	GR-WB-SR-4000-CG	W-Beam Guardrail 4.0M NLL, 1.0M CTRS	43.3
5	HR-PI-32-6500-AG	Handrail / Sight Rail Pipe 32NB	20.1
6	GR-FS-16-0045-HG	M16x45 Hex Head Bolt & Nut Assy	0.0
7	GR-FS-16-0032-MG	M16x32 Mushroom Head SPLICE Bolt & Oversize Nut Assy CL8.8	0.2
8	GR-FS-16-0050-MG	M16x50 Mushroom Head POST Bolt & Oversize Nut Assy Class 4.6	0.2
9	GR-FS-14-0025-TG	14g x 25mm Hex Head Screw Self Tapping, 10 tpi, Class5, B8 Coating	

MATERIAL:		 SafeDirection CRASH BARRIER SOLUTIONS	TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 2 GuardRail & Offside Balustrade General Arrangement												
FINISH:			DWG NO. SD-CP-01002 REVISION: E SHEET SIZE: A4												
<table border="1"> <thead> <tr> <th>STATUS</th> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN</td> <td>W. Rogulski</td> <td>30/11/2021</td> </tr> <tr> <td>CHK'D</td> <td>T. Colquhoun</td> <td>30/11/2021</td> </tr> <tr> <td>APPV'D</td> <td>H. Wallace</td> <td>20/02/2026</td> </tr> </tbody> </table>		STATUS	NAME	DATE	DRAWN	W. Rogulski	30/11/2021	CHK'D	T. Colquhoun	30/11/2021	APPV'D	H. Wallace	20/02/2026	COPYRIGHT All rights reserved. ABN: 53 156 459 684 These drawings, plans and specifications and the copyright therein are the properties of Safe Direction Pty Ltd, and must not be used, reproduced or copied wholly or in part without written permission. U.N.O. TOLERANCES: ±1mm ALL DIMENSIONS ARE IN: mm	
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DRAWN	W. Rogulski	30/11/2021													
CHK'D	T. Colquhoun	30/11/2021													
APPV'D	H. Wallace	20/02/2026													
STATUS: APPROVED		WEIGHT: 659.3kg DO NOT SCALE DRAWING SCALE: 1:25 SHEET 1 of 3													

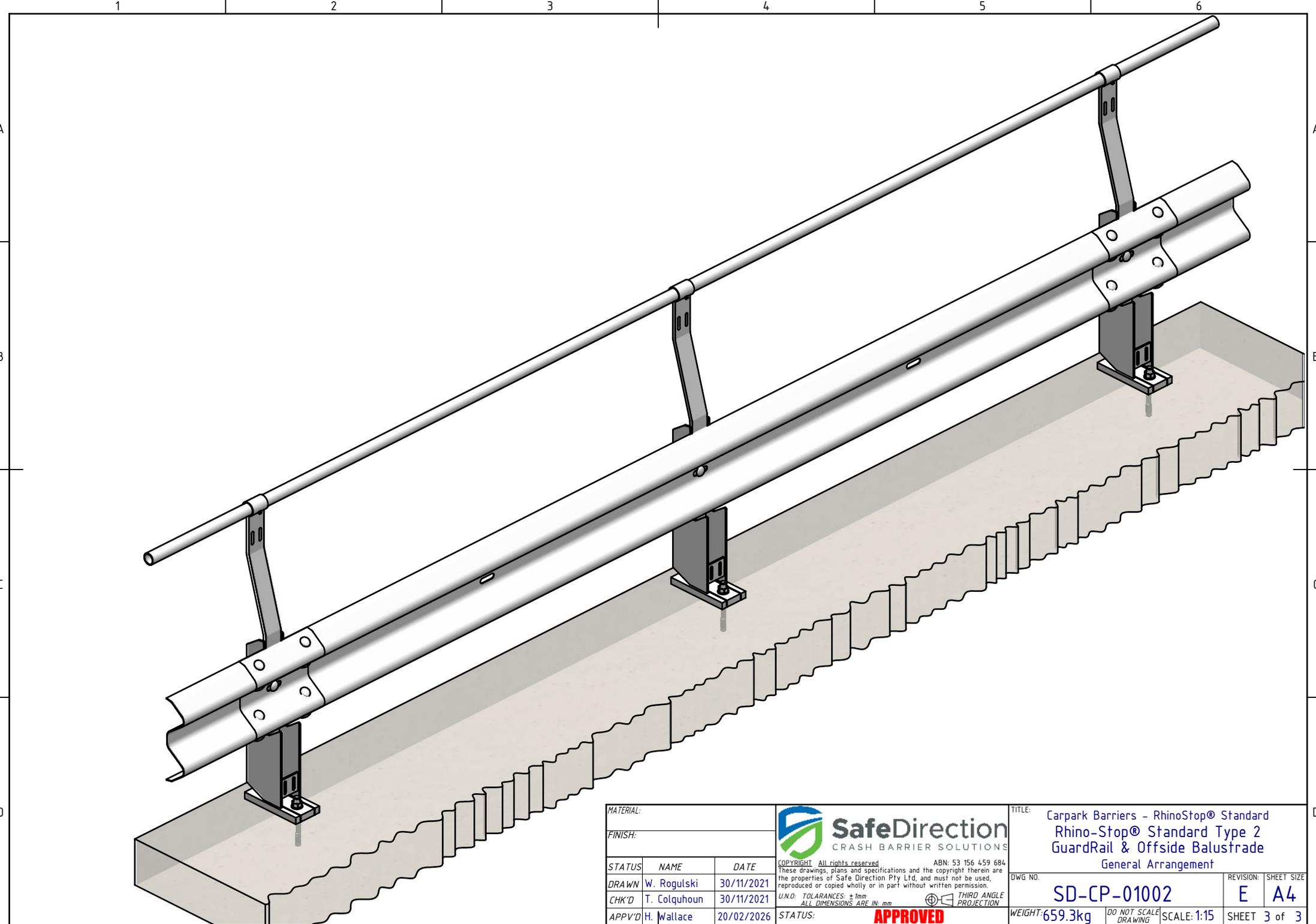


DETAIL H
SCALE 1:10



DETAIL G
SCALE 1:10

MATERIAL:			 SafeDirection CRASH BARRIER SOLUTIONS	TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 2 GuardRail & Offside Balustrade General Arrangement				
FINISH:				COPYRIGHT: All rights reserved. ABN: 53 156 459 684 These drawings, plans and specifications and the copyright therein are the properties of Safe Direction Pty Ltd, and must not be used, reproduced or copied wholly or in part without written permission.				
STATUS	NAME	DATE	U.N.O: TOLERANCES: ±1mm ALL DIMENSIONS ARE IN: mm			DWG NO. SD-CP-01002	REVISION: E	SHEET SIZE: A4
DRAWN	W. Rogulski	30/11/2021	THIRD ANGLE PROJECTION			WEIGHT: 659.3kg	DO NOT SCALE DRAWING	SCALE: 1:25
CHK'D	T. Colquhoun	30/11/2021	STATUS: APPROVED			SHEET 2 of 3		
APPV'D	H. Wallace	20/02/2026						



MATERIAL:		
FINISH:		
STATUS	NAME	DATE
DRAWN	W. Rogulski	30/11/2021
CHK'D	T. Colquhoun	30/11/2021
APPV'D	H. Wallace	20/02/2026

SafeDirection
CRASH BARRIER SOLUTIONS

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APPROVED

THIRD ANGLE PROJECTION

TITLE: Carpark Barriers - RhinoStop® Standard Rhino-Stop® Standard Type 2 GuardRail & Offside Balustrade General Arrangement		
DWG NO. SD-CP-01002	REVISION: E	SHEET SIZE: A4
WEIGHT: 659.3kg	DO NOT SCALE DRAWING	SCALE: 1:15
STATUS:		SHEET 3 of 3