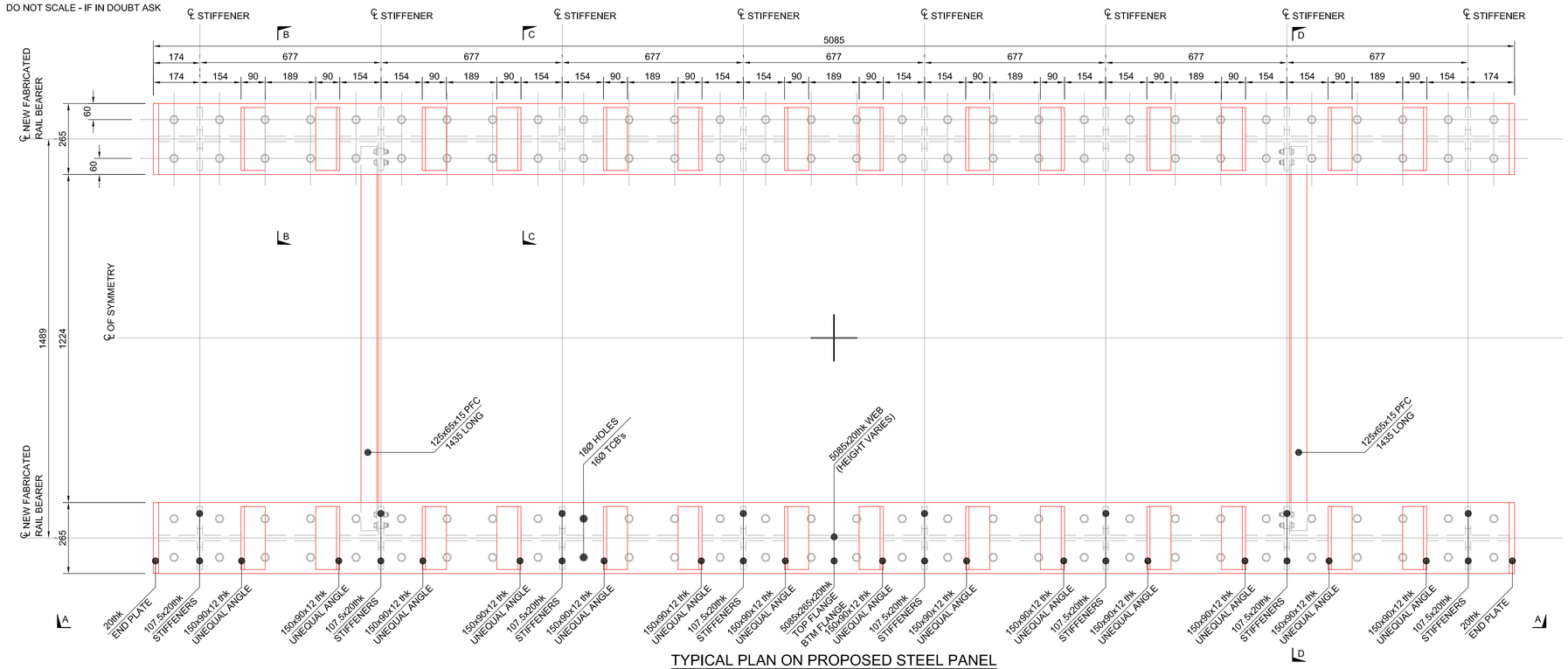
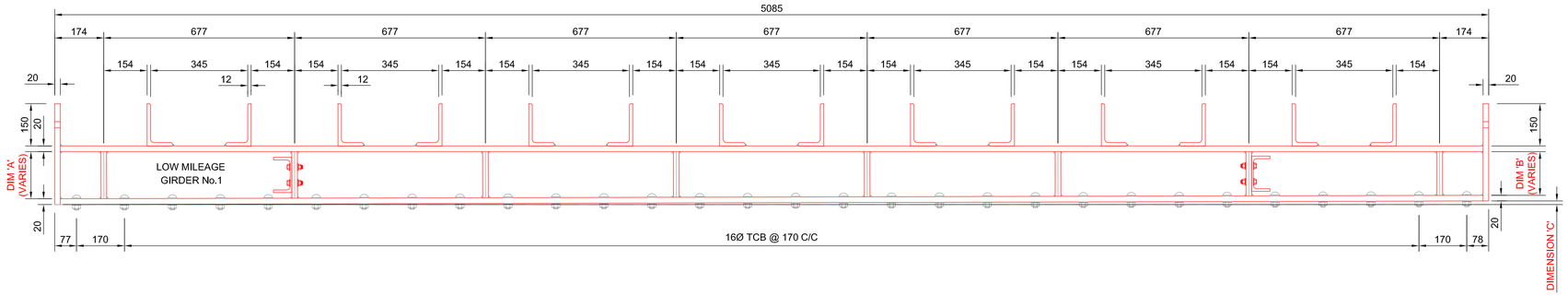
DO NOT SCALE - IF IN DOUBT ASK



TYPICAL PLAN ON PROPOSED STEEL PANEL

Scale 1:10

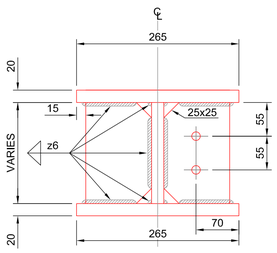


TYPICAL VIEW A-A

Scale 1:10

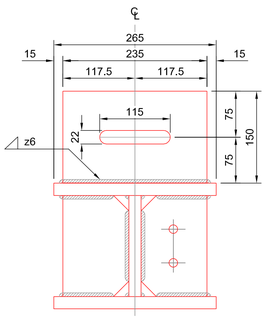
INDIVIDUAL BEAM DIMENSIONS

		SEE TYPICAL VIEW A-A		
RAIL	BEAM No.	DIMENSION 'A'	DIMENSION 'B'	DIMENSION 'C'
NORTH	1	183	168	15
NORTH	2	167	155	13
NORTH	3	155	148	6
NORTH	4	147	147	0
NORTH	5	147	155	6
NORTH	6	154	161	7
NORTH	7	162	179	16
NORTH	8	180	199	19
NORTH	9	195	184	11
NORTH	10	183	174	10
NORTH	11	173	167	5
NORTH	12	167	172	5
NORTH	13	173	181	8
NORTH	14	182	193	11
NORTH	15	195	213	19
NORTH	16	215	234	19
SOUTH	17	194	178	16
SOUTH	18	177	168	9
SOUTH	19	168	162	5
SOUTH	20	162	161	1
SOUTH	21	161	163	2
SOUTH	22	163	170	7
SOUTH	23	171	187	16
SOUTH	24	188	204	16
SOUTH	25	202	191	11
SOUTH	26	191	180	10
SOUTH	27	180	174	6
SOUTH	28	174	175	1
SOUTH	29	175	183	7
SOUTH	30	184	195	11
SOUTH	31	196	211	15
SOUTH	32	214	280	66



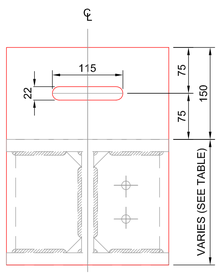
TYPICAL SECTION B-B

Scale 1:5



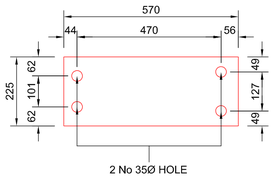
TYPICAL SECTION C-C

Scale 1:5



END PLATE DETAIL

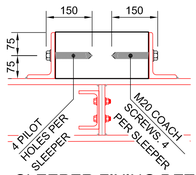
Scale 1:5



SLEEPER BASE PLATE PACKER DETAIL

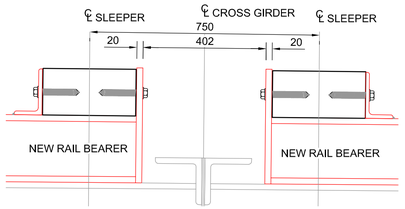
2 PER SLEEPER REQUIRED

Scale 1:10



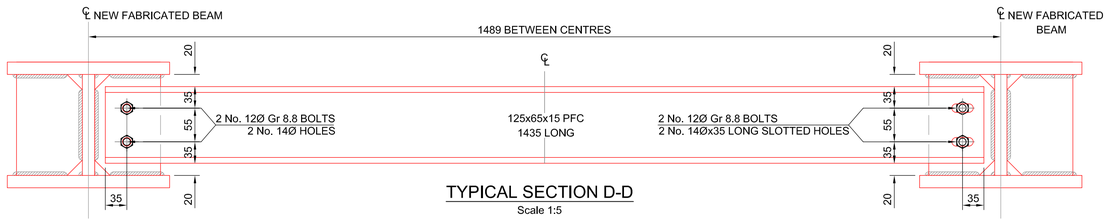
SLEEPER FIXING DETAIL

Scale 1:10



END DETAIL

Scale 1:10



TYPICAL SECTION D-D

Scale 1:5

STEELWORK NOTES

1. All levels are in m and relate to OS Datum Newlyn
2. The following abbreviations have been adopted on this drawing:
   - BW - Butt Weld
   - FW - Fillet Weld
   - O/A - Overall
   - CL - Centreline
3. Weld symbols are generally in accordance with BS EN 22553.
4. Fillet Weld size given in Leg Length.
5. Butt welds are Full Penetration of the thicknesses joined, unless minimum depth of penetration is stated.
6. All welds shall meet the requirements of Tables 8.1 to 8.5 of BS EN 1993-1-9 inclusive of the minimum detail category, as amended by the UK National Annex NA to BS EN 1993-1-9. Where a higher detail category and additional requirements are necessary, the required detail category is shown on the weld annotation.
7. The quality of welds shall conform to the standards appropriate to these classifications as defined by the specification.
8. All fabrication drawings are to be submitted to the Designer for Approval prior to commencement of fabrication.
9. This drawing is to be read in conjunction with drawings Listed on Drawing 001

CALCULATIONS

1. All welds considered to be continuous non-automatic welds unless stated otherwise.
2. Throat thickness of fillet welds assumed for design = 1√2 Leg Length.
3. Slip factor assumed for design of Preloaded Bolt, Slip Resistant Connections are assumed to be Class B, μ = 0.4 in accordance with BS EN 1993-1-8 Table 3.7.

MATERIALS AND WORKMANSHIP

1. Steelwork shall comply with BS EN 1090-2 for Execution, Class EXC3 and Tolerance Class 2.
2. All structural steel to be to BS EN 10025-3, Grade S355 J2+N or BS EN 10210-1, Grade S355 J2 as appropriate.
3. All welds shall be continuous on both sides of all joints unless stated otherwise. Weld sizes shall be as shown, but where not stated shall be 8mm Fillet Welds
4. Additional welds to make up specified sizes or lengths may only be used where authorised by written approval by the Engineer. Where Butt Welds are permitted they shall be Full Penetration Butt Welds with quality at least equivalent to Detail Category 80.
5. All holes shall be to the size stated with the hole in one part of all mating connections drilled at the Trial Erection.
6. Bolts shall be Class HR 8.8 to BS EN 14399-3 and supplied with Direct Tension Indicator Washers and Nuts to Class HR8. Grade S10T Tension Control Bolts may be used as an alternative.
7. Steelwork shall be supplied and fabricated in accordance with Network Rail Model Clauses NR/L3/CIV/140 Section 90 (BS 5400).
8. Paint system to be N1 in accordance with NR/L3/CIV/039. Initial coat to be Aluminium metal spray, Zinc not to be used in accordance with NR/GN/CIV/002 Cl. 6.1.2. All mating surfaces to be coated with initial coat only. Top coat to be 14 C 39 Holly Green to BS 4800

PERMANENT ERECTION REQUIREMENTS

1. Unless shown on this or subsequent drawings, lifting arrangements are to be designed by the contractor and are subject to the Engineer's written approval. Lifting arrangements are to be capable of lifting additional flooring, cladding etc. as appropriate.
2. Mean effective bridge temperature for setting the bearings & joints between the deck and substructure assumed to be 12°C, +/- 5°C.

A1

NOTES

1. DO NOT SCALE.
2. Original drawing is in colour.
3. Low Mileage end & Beam No. Reference stamp to be added to web of each Beam.

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0 10 20 30 40 50 60 70 80 90 100

MILLIMETRES AT ORIGINAL DRAWING SIZE

FORM 1

REV	DATE	BY	CHKD	APPR
F001 ISSUE	B01	26/11/19	JB	RH	PM
DESCRIPTION				

CLIENT: NetworkRail

CONTRACTOR: AMCO·GIFFEN

PROJECT: RCDP PACKAGE 4
MBW2 / 82 River Esk
MILEAGE : 27m 176yds GRID REF : NZ 789 510

DRAWING TITLE: Proposed Steelwork Deck Panel GA's

DRAWN	J Bent	DATE	26/11/19
PROJECT ENGINEER	J Livesey	SCALE	AS SHOWN @ A1
CHECKED	R Hardy	STATUS	F001
APPROVED	J Livesey		
DRAWING NUMBER	SL06450/MBW2-82/700	REVISION	A01

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