Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/406 Rev F

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CAD Drawing

- CIV/SD/406

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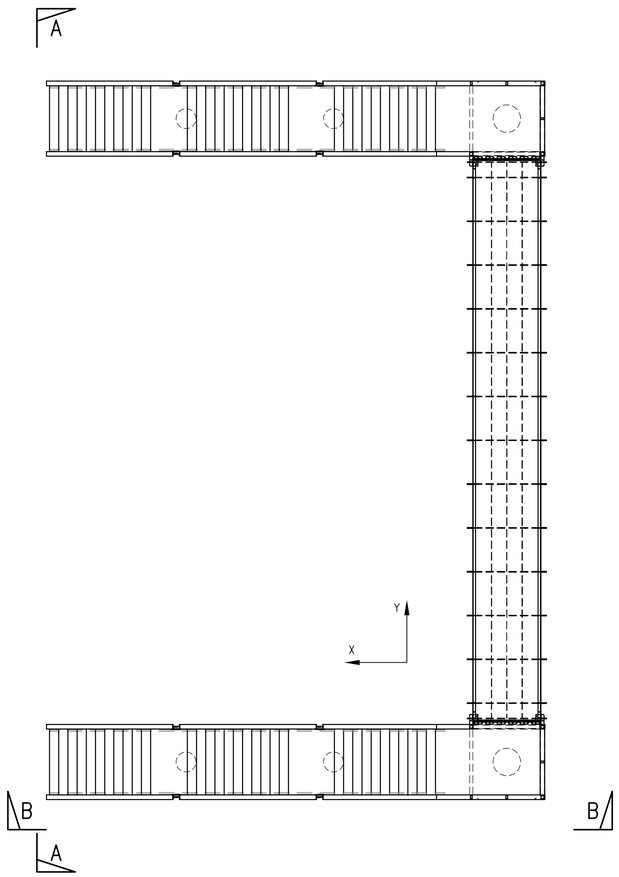
DRAWING No. NR/CIV/SD/406

NOTES

1. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL NR/CIV/SD/400 SERIES DRAWINGS.
3. FOR GENERAL NOTES REFER TO DRAWING NR/CIV/SD/400
4. REFER TO THE TUM FOR THE STRATEGY/GUIDANCE



PLAN – 3 FLIGHT OPTION

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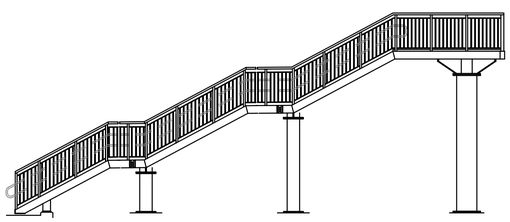

ELEVATION B–B

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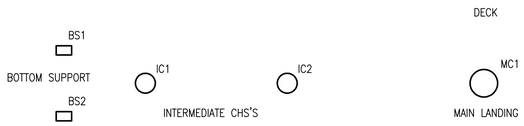


STAIRS SUPPORT LAYOUT PLAN

SLS DEAD LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	12.8	6.9	157.0	-44.6	63.4
IC1	1.4	-6.1	79.1	-42.1	7.8
IC2	3.4	-10.7	57.4	-31.2	10.1
BS1	-6.0	5.6	22.2	N/A	0.0
BS2	-11.7	4.3	21.0	N/A	0.0

SLS WIND LOAD (NEGATIVE LH TO RH)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	20.0	15.4	60.9	56.9	102.8
IC1	20.9	-5.7	-13.5	-24.6	71.5
IC2	60.8	-10.4	-7.2	-27.0	132.0
BS1	26.1	3.5	-17.8	N/A	0.0
BS2	33.2	-2.6	-22.4	N/A	0.0

SLS LIVE LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	13.4	9.9	163.3	-64.0	67.8
IC1	1.3	-8.7	70.9	-60.3	7.6
IC2	3.5	-15.3	52.7	-44.7	10.2
BS1	-13.2	6.4	21.4	N/A	0.0
BS2	-5.0	7.8	23.1	N/A	0.0

SLS THERMAL EXPANSION LOAD FROM STAIRS					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	22.6	0.0	-6.0	0.0	168.5
IC1	19.6	0.0	-11.0	0.0	86.1
IC2	7.7	0.0	-15.3	0.0	25.7
BS1	-25.0	-26.6	16.2	N/A	0.0
BS2	-25.0	26.6	16.2	N/A	0.0

SLS THERMAL CONTRACTION LOAD FROM STAIRS					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	-18.7	0.0	5.0	0.0	-139.1
IC1	-16.2	0.0	9.1	0.0	-71.1
IC2	-6.4	0.0	12.7	0.0	-21.2
BS1	20.6	22.0	-13.3	N/A	0.0
BS2	20.6	-22.0	-13.3	N/A	0.0

SLS WIND LOAD (POSITIVE RH TO LH)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	-20.0	-15.4	-60.9	-56.9	-102.8
IC1	-20.9	5.7	13.5	24.6	-71.5
IC2	-60.8	10.4	7.2	27.0	-132.0
BS1	-26.1	-3.5	17.8	N/A	0.0
BS2	-33.2	2.6	22.4	N/A	0.0

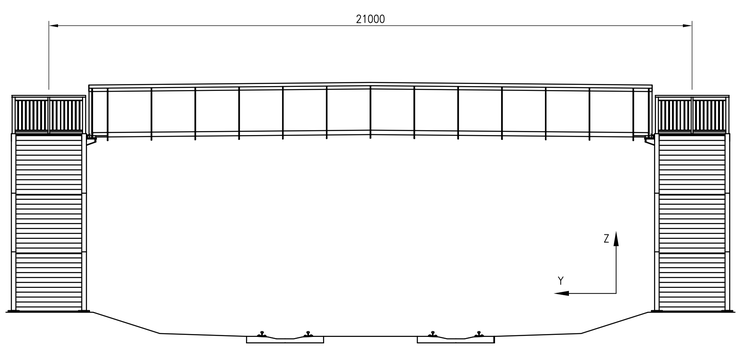
SLS SNOW LOAD					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	0.2	3.2	36.8	-20.8	3.3
IC1	-0.1	-2.8	0.5	-19.6	-0.4
IC2	0.0	-5.0	-0.2	-14.6	0.0
BS1	-1.4	2.3	-0.2	N/A	0.0
BS2	1.3	2.3	0.3	N/A	0.0

SLS THERMAL EXPANSION LOAD FROM DECK					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	0.0	18.8	0.0	147.1	0.1
IC1	0.0	9.7	0.0	54.1	0.0
IC2	0.0	13.5	0.0	38.5	0.0
BS1	3.7	-5.5	0.3	N/A	0.0
BS2	-3.7	-5.5	-0.3	N/A	0.0

SLS THERMAL CONTRACTION LOAD FROM DECK					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	0.0	-15.4	0.0	-120.4	-0.1
IC1	0.0	-7.9	0.0	-44.3	0.0
IC2	0.0	-11.0	0.0	-31.5	0.0
BS1	-3.0	4.5	-0.3	N/A	0.0
BS2	3.0	4.5	0.3	N/A	0.0

SLS WIND LOAD (Y DIRECTION)					
LOCATION	FX (kN)	FY (kN)	FZ (kN)	MX (KNM)	MY (KNM)
MC1	0.2	-46.8	-0.1	319.1	1.6
IC1	-0.3	-37.9	0.0	170.9	-1.2
IC2	-0.9	-73.0	0.7	186.7	-2.4
BS1	-24.0	-7.2	19.4	0.0	0.0
BS2	25.0	-6.0	-20.1	0.0	0.0

NOTE:
FOUNDATION LOADS HAVE BEEN GENERATED FROM 3–FLIGHT 12 STAIR ARRANGEMENT WITH CANOPY TO MAIN SPAN AND SCREENS TO STEPS. THE FORCES CAN BE REDUCED IF CANOPY AND/OR SCREENS ARE OMITTED.



ELEVATION A–A

SCALE 1:100

Rev	Date	Description of revision	Design'd	C'kd
F	17.07.15	FINAL ISSUE	BC	SWMF
E	10.07.15	FINAL ISSUE	BC	SWMF
D	18.06.15	FINAL ISSUE	CF	SWMF

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Approved	A. LUNDBERG	Investment Projects Building & Civils		

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NON–STATION FOOTBRIDGES STANDARD DRGS AND DETAILS

FOOTBRIDGE SUPERSTRUCTURE FOUNDATION LOAD TABLE 21m CHS SUPPORT

Scale	AS SHOWN	
Drawing Number	NR/CIV/SD/406	REV. F

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