Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1022 Rev A

Additional Content Access

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CAD Drawing

- CIV/SD/1022

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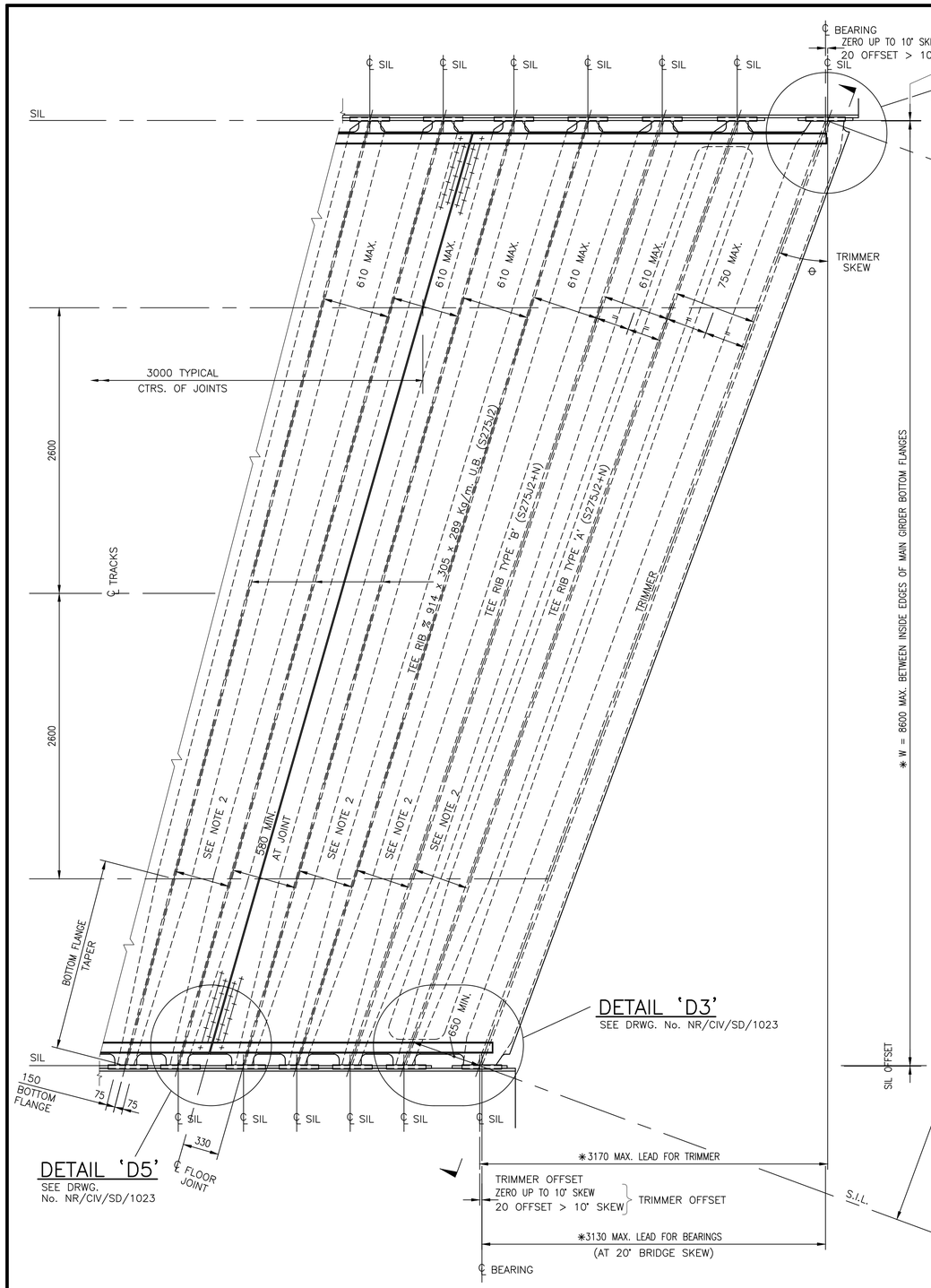
DRAWING No. NR/CIV/SD/1022



PLAN

Typical Trimmer Unit.

WIDE FLOOR / 20° MAX. BRIDGE SKEW / FANNED RIBS.
(∝)

EXAMPLE: FOR 24m SPAN HEAVY GIRDER BRIDGE SKEW (∝) = 20° W = 8600

∴ BEARING LEAD = 8600 tan. 20° = 3130.1mm

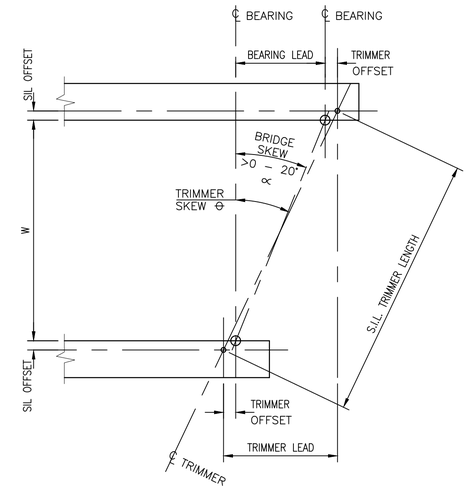
ie. TRIMMER LEAD =3130.1 + 2 x 20 = 3170.1mm

from drawing NR/CIV/SD/1038, SIL OFFSET = 4.2mm

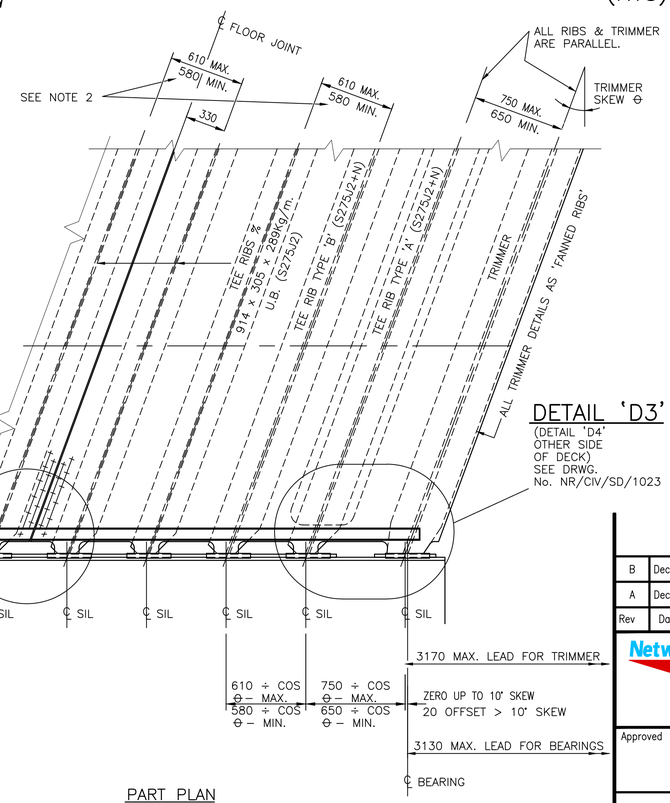
W+(2 x SIL OFFSET) = 8608.4mm

SIL TRIMMER LENGTH = $\sqrt{(8604.8)^2 + (3170.1)^2}$ = 9173.6mm

TRIMMER SKEW (Θ) = $\tan^{-1}\left(\frac{3170.1}{8608.4}\right)$ = 20.217°



DEFINITION OF SKEW
(NTS)



PART PLAN

Typical Trimmer Unit.

WIDE FLOOR / 20° MAX. BRIDGE SKEW / SKEWED RIBS.
(∝)

1. TEE RIBS SHALL BE FORMED IN ONE LENGTH. INTERMEDIATE WELDED JOINTS ARE NOT PERMITTED.
2. 580 RIB SPACING IS DESIRABLE MINIMUM TO ALLOW WELDING, PROTECTIVE TREATMENT & MAINTENANCE, MAY BE REDUCED TO 500 ABSOLUTE MINIMUM WHEN RIBS ARE FANNED.
3. TRIMMER IS FABRICATED INTEGRAL WITH FLOOR UNIT.
4. NORMALLY SKEWED RIBS SHOULD BE ADOPTED. FANNED RIBS SHOULD BE USED WHERE THE SKEW ANGLE VARIES BETWEEN BRIDGE ENDS.
5. ✳ DIMENSIONS SPECIFIC TO SKEW ANGLE & FLOOR WIDTH SHOWN MAY NEED TO BE VARIED TO SUIT.
6. SEE DRG. No. NR/CIV/SD/1020 FOR LOCATION OF FLOOR PLATE BUTT WELDS.

Rev	Date	Description of revision	Design'd	C'kd
B	Dec 10	EUROCODE ISSUE	CH	MM
A	Dec 09	ORIGINAL ISSUE	CH	MM

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Approved	P Clark	Senior Programme Engineering Manager (Building & Civils)	P.C.	Dec–10

Master copy with original signatures held by Network Rail HQ CIVIL ENGINEERING STANDARD DESIGN

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STANDARD HALF THROUGH UNDERBRIDGES
BOX GIRDERS & TRANSVERSE RIBBED FLOORS

DOUBLE TRACK – 2 GIRDERS

WIDE FLOORS 0–20° SKEW
SHEET 1 OF 2

Scale	1:25	
Drawing Number	NR/CIV/SD/1022	B

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