Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/1030 Rev B

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CAD Drawing

- CIV/SD/1030

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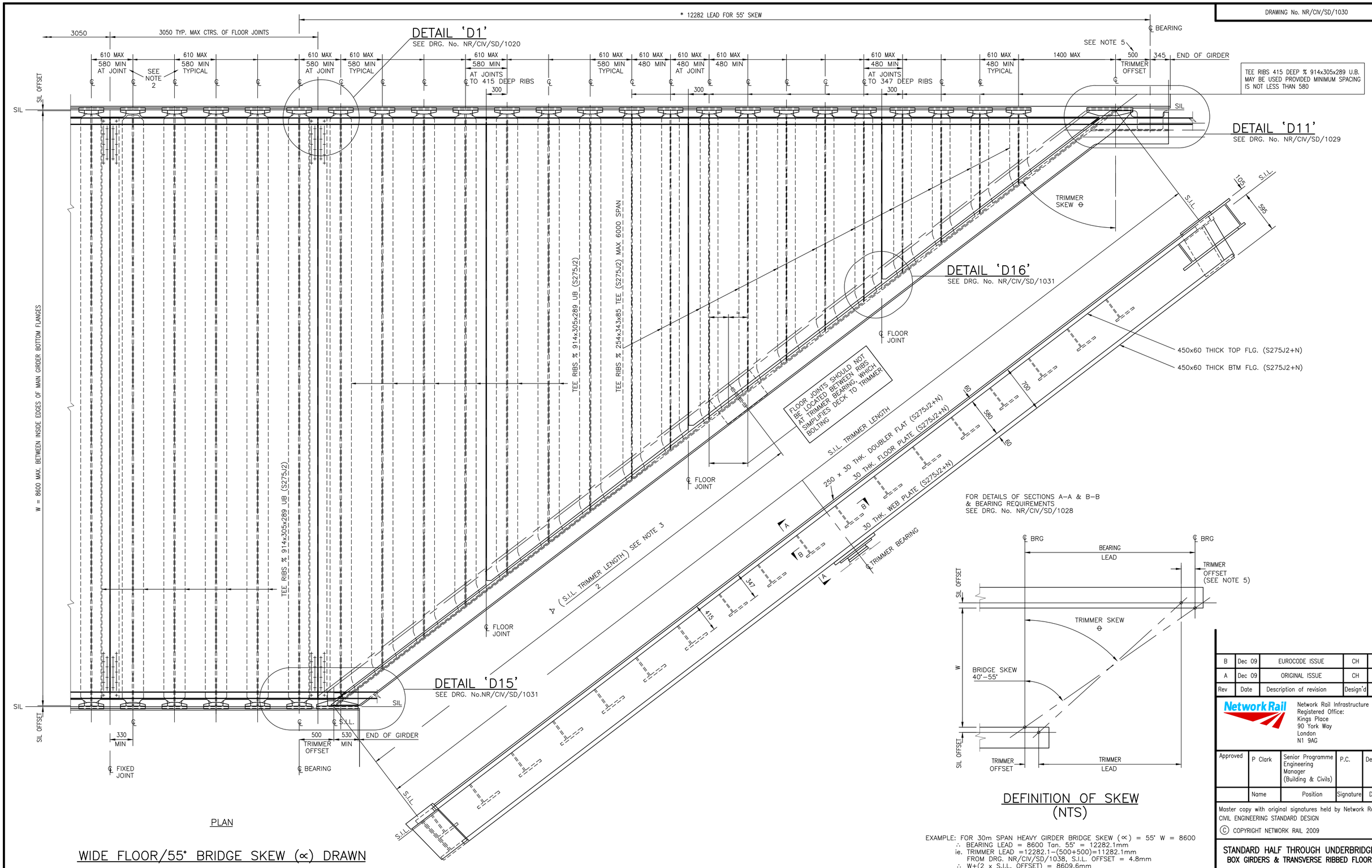
DRAWING No. NR/CIV/SD/1030



PLAN

WIDE FLOOR/55° BRIDGE SKEW (∝) DRAWN

(APPLICABLE >40°–55° BRIDGE SKEW)

DEFINITION OF SKEW (NTS)

EXAMPLE: FOR 30m SPAN HEAVY GIRDER BRIDGE SKEW (∝) = 55° W = 8600

∴ BEARING LEAD = 8600 Tan. 55° = 12282.1mm

ie. TRIMMER LEAD =12282.1−(500+500)=11282.1mm

FROM DRG. NR/CIV/SD/1038, S.I.L. OFFSET = 4.8mm

∴ W+(2 x S.I.L. OFFSET) = 8609.6mm

S.I.L. TRIMMER LENGTH ≈ $\sqrt{(8609.6^2) + (11282.1^2)}$ = 14191.9mm

TRIMMER SKEW (Θ) = $\tan^{-1}\left(\frac{11282.1}{8609.6}\right)$ = 52.652°

(∝)

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

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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 >30°–55° SKEW SHEET 3 OF 4

Scale	1:25
Drawing Number	NR/CIV/SD/1030 B

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.
3. TRIMMER BEARING SHALL BE LOCATED SUCH THAT ITS DISTANCE FROM THE OBTUSE END S.I.L. IS NOT GREATER THAN $\frac{\text{S.I.L. TRIMMER LENGTH}}{2}$ BUT AS CLOSE TO MID–LENGTH AS POSSIBLE TAKING ACCOUNT OF RIB LOCATIONS.
4. * DIMENSION SPECIFIC TO SKEW ANGLE & FLOOR WIDTH SHOWN & MAY NEED TO BE VARIED
5. FOR >40°–55° BRIDGE SKEWS (∝) THEN AT ACUTE CORNERS THE TRIMMER INTERSECTS IN FRONT OF THE MAIN GIRDER BEARING.
6. SEE DRG. No. NR/CIV/SD/1020 FOR LOCATION OF FLOOR PLATE BUTT WELDS.
7. FOR BRIDGE INSTALLATION METHODS REQUIRING MULTIPLE DECK UNITS WITH INTEGRAL TRIMMERS SEE DRAWING SERIES NR/CIV/SD/1032 – 1037.

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