Supplementary Information

The following information is associated with Network Rail Standard:
**NR CIV/SD/2161-2** Rev B

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### CAD Drawing

- CIV/SD/2161-2

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Drg No. 2161

| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | B20 | 1 | 8 | 8 | 3725 | 99 | 985 | 425 | 900 | 425 | (985) | |
| | | | | | | | 65 | | 0 RAD | | 65 | |
| 103 | B32 | 1 | 4 | 4 | 7150 | 99 | 1170 | | 4790 | | 1170 | |
| | | | | | | | 2555 RAD | | 20070 RAD | | 2555 RAD | |
| 104 | B25 | 1 | 4 | 4 | 7125 | 99 | 1165 | | 4785 | | 1165 | |
| | | | | | | | 2555 RAD | | 20070 RAD | | 2555 RAD | |
| 105 | B32 | 1 | 8 | 8 | 5950 | 99 | 4220 | 4175 | (1730) | 625 | 20225 | |
| 106 | B25 | 1 | 8 | 8 | 5975 | 99 | 4225 | 4175 | (1730) | 625 | 20235 | |
| | | | | | | | | B; D; A; R; (C) | | | | |
| | | | | | | | | MKS 105 & 106 | | | | |
| 107 | B32 | 1 | 8 | 8 | 3840 | 15 | 1280 | 775 | (2560) | | | |
| 108 | B25 | 1 | 8 | 8 | 3505 | 15 | 945 | 570 | (2560) | | | |
| 109 | B25 | 1 | 16 | 16 | 1475 | 23 | 365 | 1000 | (240) | | | |
| 115 | B16 | 1 | 16 | 16 | 1400 | 21 | 600 | 250 | (600) | | | |
| 131a | B12 | 1 | 34 | 34 | 2500 | 51 | 815 | 335 | 160 | | | |
| 131b | B12 | 1 | 2 | 2 | 2550 | 51 | 815 | 350 | 160 | | | |
| 131c | B12 | 1 | 2 | 2 | 2575 | 51 | 815 | 365 | 160 | | | |
| 131d | B12 | 1 | 2 | 2 | 2600 | 51 | 815 | 385 | 160 | | | |
| 131e | B12 | 1 | 2 | 2 | 2675 | 51 | 815 | 415 | 160 | | | |
| 131f | B12 | 1 | 2 | 2 | 2750 | 51 | 815 | 450 | 160 | | | |
| 131g | B12 | 1 | 2 | 2 | 2825 | 51 | 815 | 490 | 160 | | | |
| 132a | B16 | 1 | 34 | 34 | 1625 | 51 | 450 | 225 | 210 | | | |
| 132b | B16 | 1 | 2 | 2 | 1650 | 51 | 450 | 240 | 210 | | | |
| 132c | B16 | 1 | 2 | 2 | 1675 | 51 | 450 | 250 | 210 | | | |
| 132d | B16 | 1 | 2 | 2 | 1725 | 51 | 450 | 275 | 210 | | | |
| 132e | B16 | 1 | 2 | 2 | 1775 | 51 | 450 | 300 | 210 | | | |
| 132f | B16 | 1 | 2 | 2 | 1850 | 51 | 450 | 335 | 210 | | | |
| 132g | B16 | 1 | 2 | 2 | 1925 | 51 | 450 | 375 | 210 | | | |
| 133a | B16 | 1 | 2 | 2 | 3350 | 51 | 815 | 585 | 500 | | | |
| 133b | B16 | 1 | 2 | 2 | 3475 | 51 | 815 | 640 | 500 | | | |
| 133c | B16 | 1 | 2 | 2 | 3600 | 51 | 815 | 700 | 500 | | | |
| 133d | B16 | 1 | 2 | 2 | 3725 | 51 | 815 | 765 | 500 | | | |
| 133e | B16 | 1 | 2 | 2 | 3875 | 51 | 815 | 845 | 500 | | | |
| 133f | B16 | 1 | 2 | 2 | 4050 | 51 | 815 | 935 | 500 | | | |
| 133g | B16 | 1 | 2 | 2 | 4225 | 51 | 815 | 1020 | 500 | | | |
| 133h | B16 | 1 | 2 | 2 | 4400 | 51 | 815 | 1105 | 500 | | | |
| 133j | B16 | 1 | 2 | 2 | 4575 | 51 | 815 | 1190 | 500 | | | |
| 133k | B16 | 1 | 2 | 2 | 4725 | 51 | 815 | 1270 | 500 | | | |
| 133l | B16 | 1 | 2 | 2 | 4900 | 51 | 815 | 1350 | 500 | | | |
| 133m | B16 | 1 | 2 | 2 | 4825 | 51 | 815 | 1315 | 500 | | | |
| 133n | B16 | 1 | 2 | 2 | 4600 | 51 | 815 | 1200 | 500 | | | |
| 133p | B16 | 1 | 2 | 2 | 4350 | 51 | 815 | 1085 | 500 | | | |
| 133q | B16 | 1 | 2 | 2 | 4125 | 51 | 815 | 970 | 500 | | | |
| 133r | B16 | 1 | 2 | 2 | 3900 | 51 | 815 | 860 | 500 | | | |
| 133s | B16 | 1 | 2 | 2 | 3675 | 51 | 815 | 745 | 500 | | | |

**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 134a | B16 | 1 | 2 | 2 | 2150 | 51 | 450 | 490 | 210 | | | |
| 134b | B16 | 1 | 2 | 2 | 2250 | 51 | 450 | 540 | 210 | | | |
| 134c | B16 | 1 | 2 | 2 | 2375 | 51 | 450 | 600 | 210 | | | |
| 134d | B16 | 1 | 2 | 2 | 2500 | 51 | 450 | 670 | 210 | | | |
| 134e | B16 | 1 | 2 | 2 | 2675 | 51 | 450 | 750 | 210 | | | |
| 134f | B16 | 1 | 2 | 2 | 2850 | 51 | 450 | 840 | 210 | | | |
| 134g | B16 | 1 | 2 | 2 | 3025 | 51 | 450 | 925 | 210 | | | |
| 134h | B16 | 1 | 2 | 2 | 3200 | 51 | 450 | 1010 | 210 | | | |
| 134j | B16 | 1 | 2 | 2 | 3350 | 51 | 450 | 1095 | 210 | | | |
| 134k | B16 | 1 | 2 | 2 | 3525 | 51 | 450 | 1175 | 210 | | | |
| 134l | B16 | 1 | 2 | 2 | 3575 | 51 | 450 | 1205 | 210 | | | |
| 134m | B16 | 1 | 2 | 2 | 3350 | 51 | 450 | 1090 | 210 | | | |
| 134n | B16 | 1 | 2 | 2 | 3125 | 51 | 450 | 975 | 210 | | | |
| 134p | B16 | 1 | 2 | 2 | 2900 | 51 | 450 | 865 | 210 | | | |
| 134q | B16 | 1 | 2 | 2 | 2675 | 51 | 450 | 750 | 210 | | | |
| 134r | B16 | 1 | 2 | 2 | 2450 | 51 | 450 | 635 | 210 | | | |
| 134s | B16 | 1 | 2 | 2 | 2200 | 51 | 450 | 520 | 210 | | | |
| 135a | B16 | 1 | 2 | 2 | 3300 | 51 | 815 | 550 | 500 | | | |
| 135b | B16 | 1 | 4 | 4 | 2900 | 51 | 815 | 350 | 500 | | | |
| 136 | B16 | 1 | 6 | 6 | 1750 | 51 | 395 | 350 | 210 | | | |
| 137 | B16 | 1 | 17 | 17 | 1600 | 21 | 750 | 160 | (750) | | | |
| 138a | B20 | 1 | 1 | 1 | 1825 | 13 | 875 | 180 | (875) | | | |
| 138b | B20 | 1 | 1 | 1 | 1825 | 13 | 875 | 180 | (875) | | | |
| 138c | B20 | 1 | 1 | 1 | 1850 | 13 | 875 | 200 | (875) | | | |
| 138d | B20 | 1 | 1 | 1 | 1875 | 13 | 875 | 225 | (875) | | | |
| 138e | B20 | 1 | 1 | 1 | 1900 | 13 | 875 | 255 | (875) | | | |
| 138f | B20 | 1 | 1 | 1 | 1950 | 21 | 875 | 295 | (875) | | | |
| 139a | B20 | 1 | 1 | 1 | 2075 | 21 | 875 | 420 | (875) | | | |
| 139b | B20 | 1 | 1 | 1 | 2125 | 21 | 875 | 475 | (875) | | | |
| 139c | B20 | 1 | 1 | 1 | 2175 | 21 | 875 | 535 | (875) | | | |
| 139d | B20 | 1 | 1 | 1 | 2250 | 21 | 875 | 605 | (875) | | | |
| 139e | B20 | 1 | 1 | 1 | 2325 | 21 | 875 | 685 | (875) | | | |
| 139f | B20 | 1 | 1 | 1 | 2425 | 21 | 875 | 775 | (875) | | | |
| 139g | B20 | 1 | 1 | 1 | 2500 | 21 | 875 | 860 | (875) | | | |
| 139h | B20 | 1 | 1 | 1 | 2600 | 21 | 875 | 945 | (875) | | | |
| 139j | B20 | 1 | 1 | 1 | 2675 | 21 | 875 | 1030 | (875) | | | |
| 139k | B20 | 1 | 1 | 1 | 2750 | 21 | 875 | 1110 | (875) | | | |
| 139l | B20 | 1 | 1 | 1 | 2800 | 21 | 875 | 1140 | (875) | | | |
| 139m | B20 | 1 | 1 | 1 | 2675 | 21 | 875 | 1025 | (875) | | | |
| 139n | B20 | 1 | 1 | 1 | 2550 | 21 | 875 | 910 | (875) | | | |
| 139p | B20 | 1 | 1 | 1 | 2450 | 21 | 875 | 800 | (875) | | | |
| 139q | B20 | 1 | 1 | 1 | 2325 | 21 | 875 | 685 | (875) | | | |
| 139r | B20 | 1 | 1 | 1 | 2225 | 21 | 875 | 570 | (875) | | | |
| 139s | B20 | 1 | 1 | 1 | 2100 | 21 | 875 | 455 | (875) | | | |
| 140 | B20 | 1 | 3 | 3 | 1925 | 21 | 875 | 280 | (875) | | | |
| 141 | B16 | 1 | 34 | 34 | 1575 | 21 | 750 | 160 | (750) | | | |
| 142 | B16 | 1 | 8 | 8 | 1050 | 21 | 300 | 500 | (300) | | | |
| 143 | B12 | 1 | 8 | 8 | 1275 | 21 | 400 | 500 | (400) | | | |
| 144 | B12 | 1 | 4 | 4 | 2075 | 11 | 780 | (1300) | | | | |

**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

| Bar mark | Type and size | No. of mbrs | No. of bars in each | Total no. | Length of each bar † mm | Shape code | A* mm | B* mm | C* mm | D* mm | E/R* mm | Rev letter |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 146a | B12 | 1 | 4 | 4 | 2850 | 21 | 200 | 2495 | (200) | | | |
| 146b | B12 | 1 | 4 | 4 | 2500 | 21 | 200 | 2135 | (200) | | | |
| 146c | B12 | 1 | 4 | 4 | 2150 | 21 | 200 | 1775 | (200) | | | |
| 146d | B12 | 1 | 4 | 4 | 1775 | 21 | 200 | 1405 | (200) | | | |
| 146e | B12 | 1 | 4 | 4 | 1400 | 21 | 200 | 1030 | (200) | | | |
| 146f | B12 | 1 | 4 | 4 | 1025 | 21 | 200 | 650 | (200) | | | |
| 147 | B16 | 1 | 12 | 12 | 3025 | 29 | 1490 | 700 | (885) | 690 | 170 | |
| | | | | | | | | Mk. 147 | A; D; B; E; (C) | | | |
| 148 | B16 | 1 | 12 | 12 | 1825 | 21 | 210 | 690 | (970) | | | |
| 149 | B16 | 1 | 12 | 12 | 3175 | 21 | 1500 | 315 | (1400) | | | |
| 150 | B12 | 1 | 14 | 14 | 2575 | 41 | 250 | 715 | 720 | 715 | (250) | |
| 151 | B12 | 1 | 16 | 16 | 3250 | 21 | 1470 | 340 | (1470) | | | |
| 153 | B12 | 1 | 4 | 4 | 3250 | 21 | 1470 | 340 | (1470) | | | |
| 154 | B16 | 1 | 12 | 12 | 2950 | 11 | 1470 | (1500) | | | | |
| 155 | B16 | 1 | 12 | 12 | 2575 | 21 | 975 | 685 | (975) | | | |

**This schedule conforms to BS 8666: 2005**

* Specified in multiples of 5 mm. † Specified in multiples of 25 mm.

DRAWING No. NR/CIV/SD/2161-2

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING No. NR/CIV/SD/2001.

| Rev | Date | Description of revision | Designed | C'kd |
|---|---|---|---|---|
| B | 27.04.12 | SECOND ISSUE | SzT | SWF |
| A | 12.10.10 | FIRST ISSUE | SzT | SWF |

Network Rail

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| | | | | |
|---|---|---|---|---|
| Approved | P. Clark | Head of Engineering IP Central | PC | Apr 2013 |
| | Name | Position | Signature | Date |

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

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# STANDARD CONARCH OVERBRIDGE

# REINFORCEMENT DETAILS 9.4m EXTERNAL UNIT SQUARE SPAN

SHEET 2

Scale 1:25

Drawing Number NR/CIV/SD/2161-2 B

Full document details: NR NR-CIV-SD-2161-2 ISSUE B 2012

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