Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/311 Rev C

Additional Content Access

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CAD Drawing

- CIV/SD/311

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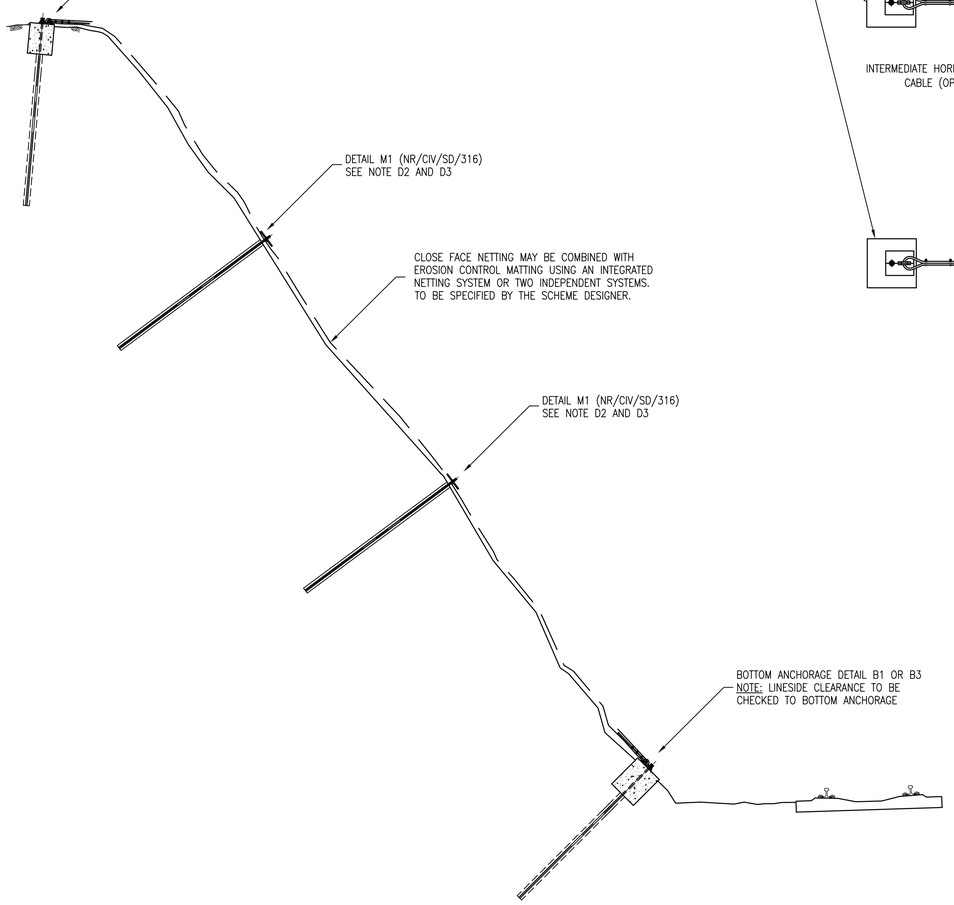
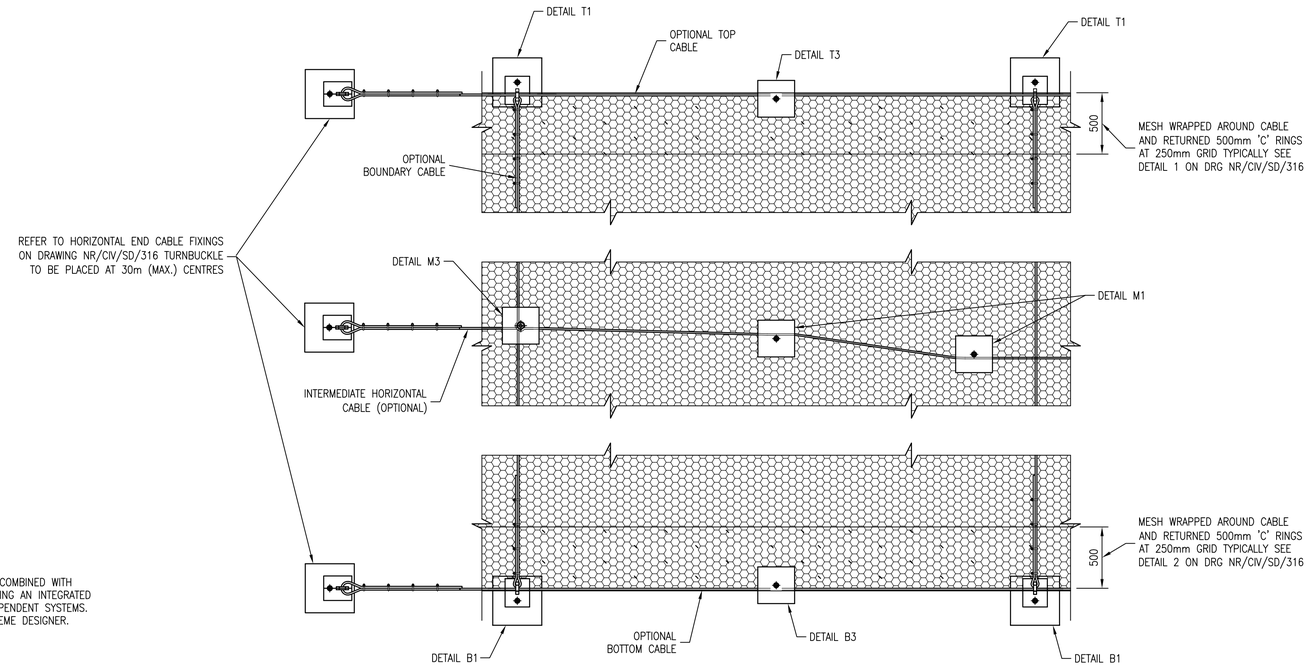


TYPE N2 – CLOSE NETTED FACE
TYPICAL SECTION
SCALE 1:50



ELEVATION
SCALE 1:25

NOTE
FOR DETAILS REFER TO DRAWINGS No.
NR/CIV/SD/314 – TOP DETAILS
NR/CIV/SD/315 – BOTTOM DETAILS
NR/CIV/SD/316 – INTERMEDIATE MISCELLANEOUS DETAILS

DRAWING No. NR/CIV/SD/311

NOTES

A GENERAL:

A1 THIS DRAWING SHOWS A TYPICAL ARRANGEMENT FOR AN APPLICATION WHERE THE NETTING IS FIXED TIGHT TO A SLOPE FACE WHERE LOOSE MATERIAL IS EXPECTED TO BE LOCALLY RETAINED BY THE NETTING.

B SPECIFICATION:

B1 REFER TO DRAWING NR/CIV/SD/310

B2 REFER TO TUM NR/CIV/SD/TUM/301

C DESIGN ASSUMPTIONS:

C1 THE USE OF CLOSE FACE NETTING HAS THE ADVANTAGE OF HOLDING LOOSE MATERIAL IN PLACE. THE DESIGNER SHALL ASSESS THE BULK OF THE POTENTIAL LOOSE MATERIAL IN RELATION TO THE SLOPE ANGLE, ANCHOR SPACING AND MESH STRENGTH WHEN SELECTING THIS OPTION. THIS SOLUTION HAS THE ADVANTAGE OF MINIMISING MAINTENANCE IN RESPECT OF REMOVAL OF MATERIAL AND CAN BE USED WHERE THE SLOPE DOES NOT RUN DIRECTLY TO THE CESS (E.G. ABOVE ROCK FACES OF RETAINING WALLS)

C2 THE DESIGNER SHALL REFER TO NETTING MANUFACTURERS PUBLISHED TESTING DATA WHEN ASSESSING MESH STRENGTH AND PERFORMANCE.

D INSTALLATION GUIDANCE:

D1 REFER TO DRAWING NR/CIV/SD/310 FOR GENERAL INSTALLATION GUIDANCE.

D2 INTERMEDIATE ANCHORS WILL NEED TO BE POSITIONED TO ENSURE THAT THE MESH ADHERES CLOSELY TO THE SLOPE FACE. HORIZONTAL AND DIAGONAL CABLES ARE TO BE INSTALLED TO ASSIST IN ACHIEVING THIS OBJECTIVE.

D3 FOR UNEVEN SURFACES WHERE CONTOUR NETTING IS PROPOSED ADDITIONAL ANCHOR POINTS MAY BE REQUIRED TO FOLLOW THE TOPOGRAPHY OF THE SLOPE.

E SAFETY, HEALTH AND ENVIRONMENT RISK ASSESSMENT:

E1 REFER TO TABLE 1 OF DRAWING NR/CIV/SD/310.

Rev	Date	Description of revision	Design'd	C'kd
C	MAY 2011	THIRD ISSUE	GPR	SWMF
B	18.03.08	SECOND ISSUE	NGAY	NGAY
A	08.08.06	FIRST ISSUE	NGAY	NGAY

Network Rail

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	Name	Position	Signature	Date
Approved	P CLARK	Senior Prog. Eng. Manager Investment Projects Building & Civils	PC	MAY 2011

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

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EARTHWORKS

PASSIVE NON-STRESSED NETTING
CLOSE NETTING FACE

Scale: AS SHOWN

Drawing Number: NR/CIV/SD/311 REV. C

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