Supplementary Information

The following information is associated with Network Rail Standard:
NR CIV/SD/312 Rev C

Additional Content Access

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CAD Drawing

- CIV/SD/312

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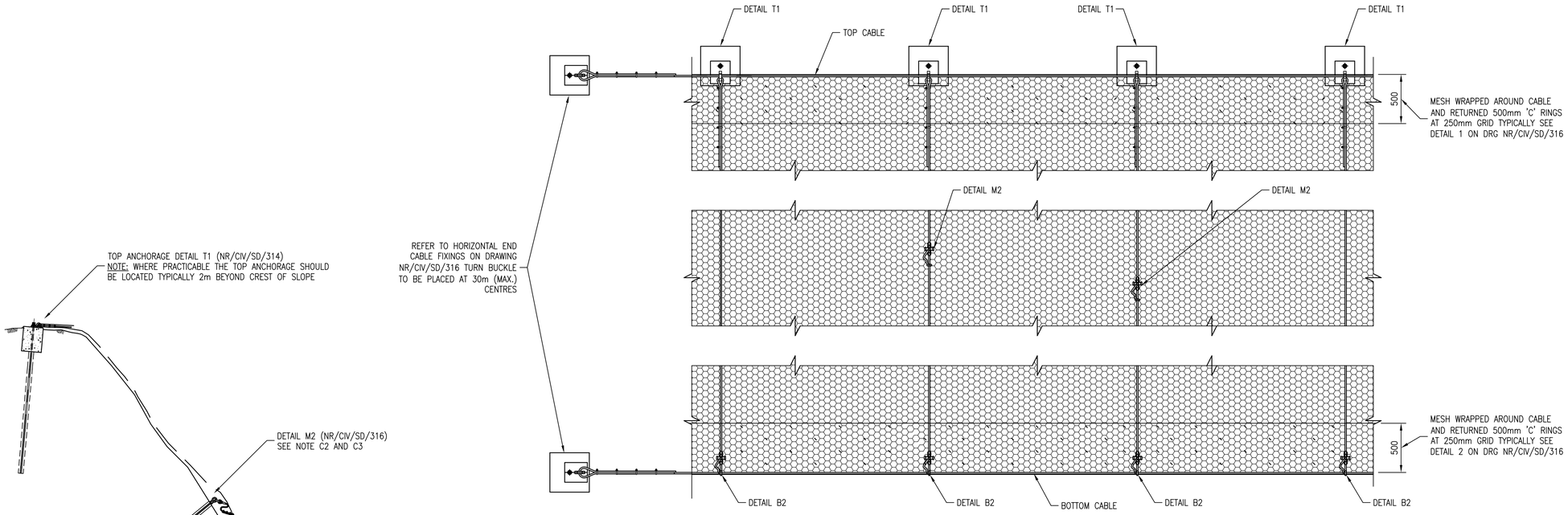
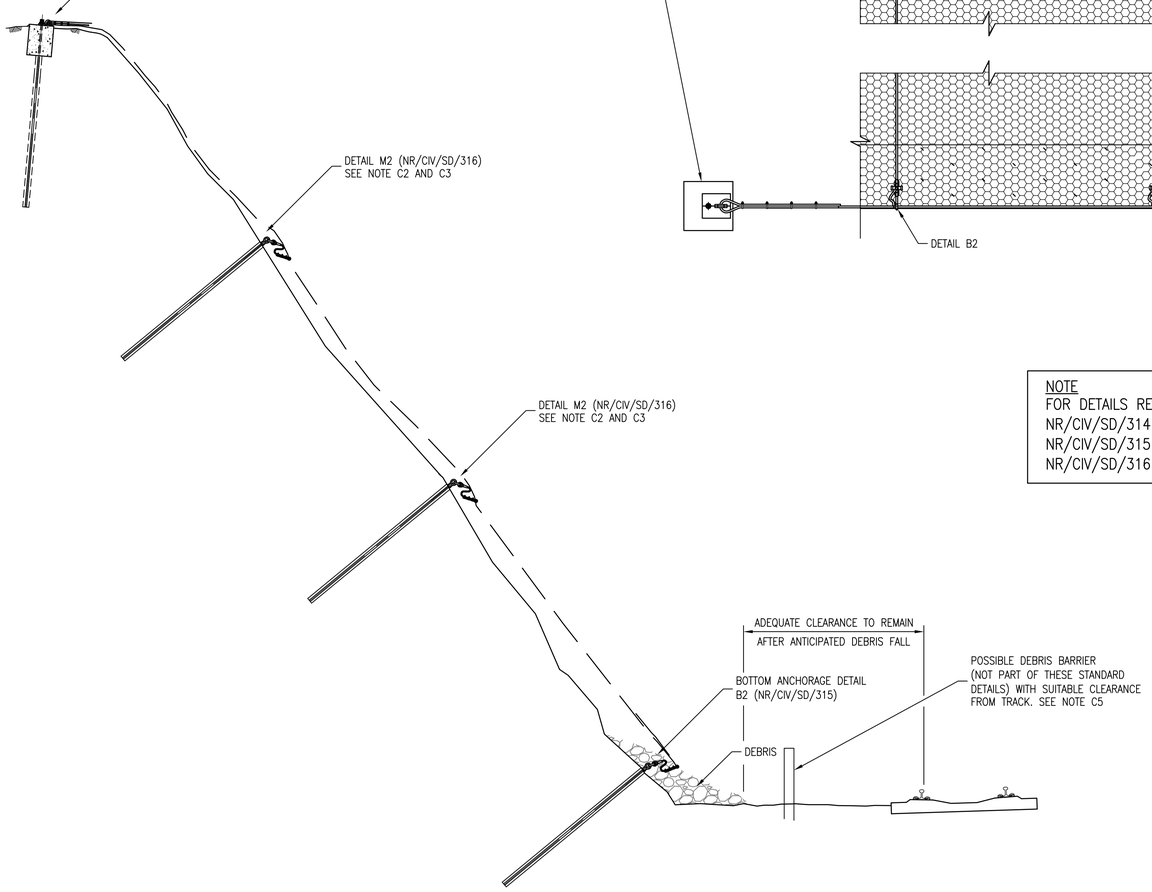


ELEVATION

SCALE 1:25



TYPE N4 – OPEN BASE LOOSE NETTING
TYPICAL SECTION

SCALE 1:50

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/312

NOTES

A GENERAL:

A1 THIS DRAWING SHOWS A TYPICAL ARRANGEMENT FOR AN APPLICATION WHERE THERE IS SUFFICIENT CESS WIDTH TO DEPOSIT THE ANTICIPATED DEBRIS IN THE CESS AND THE NETTING IS REQUIRED TO CONTROL THE ROCK OR DEBRIS FALL.

B SPECIFICATION:

B1 REFER TO DRAWING NR/CIV/SD/310.

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

C DESIGN ASSUMPTIONS:

C1 THE ADVANTAGE OF OPEN BASE LOOSE NETTING IS THAT THE WEIGHT OF THE FALLEN DEBRIS DOES NOT SIGNIFICANTLY LOAD THE NETTING SYSTEM.

C2 THE DESIGNER SHALL CONFIGURE THE TOE ARRANGEMENT SO THAT THE MATERIAL IS FREE TO REST ON THE WIDE CESS. THIS WILL INVOLVE
a. THE DEFINITION OF THE LENGTH OF THE EXTENSION SLING ATTACHED TO THE ANCHORS (DETAIL B2).
b. THE LENGTH OF SLING DEFINED FOR THE INTERMEDIATE ANCHORS (WHEN USED) SHALL BE CONFIGURED BASED ON THE EXPECTED DEBRIS VOLUME. (DETAIL M2).
THE SLING LENGTHS MAY VARY DEPENDING ON TOPOGRAPHY.

C3 THE USE OF INTERMEDIATE SLINGS IS OPTIONAL, NOTING THAT RESTRAINING THE NETTING AT AN INTERMEDIATE LEVEL WILL HELP REDUCE THE ENERGY OF THE FALLING/SLIPPING MASS BUT MAY ALSO RESULT IN LOCAL OVERLOADING IN THE VICINITY OF AN INTERMEDIATE ANCHOR DURING A DEBRIS FALL AND PREMATURE RUPTURE OF THE NETTING.

C4 THE DESIGN SHALL REFER TO THE NETTING MANUFACTURERS PUBLISHED TESTING DATA WHEN ASSESSING MESH STRENGTH AND PERFORMANCE.

C5 MINIMUM CLEARANCE TO DEBRIS/BARRIER TO BE IN ACCORDANCE WITH NR/L2/TRK/2049. SCHEME DESIGNER TO ENSURE ADEQUATE CLEARANCE IS MAINTAINED AFTER ANTICIPATED DEBRIS FALL, INCLUDING ALLOWANCE FOR LINESIDE FACILITIES FOR PERSONAL SAFETY.

D INSTALLATION GUIDANCE:

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

E SAFETY, HEALTH & ENVIRONMENTAL 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	19.03.08	SECOND ISSUE	NGAY	NGAY
A	08.08.06	FIRST ISSUE	NGAY	NGAY

Network Rail

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Approved	P CLARK	Senior Prog. Eng. Manager Investment Projects Building & Civils	PC	MAY 2011
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Master copy with original signatures held by Network Rail HQ CIVIL ENGINEERING STANDARD DESIGN

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EARTHWORKS

PASSIVE NON-STRESSED NETTING
OPEN BASE LOOSE NETTING

Scale	AS SHOWN	
Drawing Number	NR/CIV/SD/312	REV. C

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