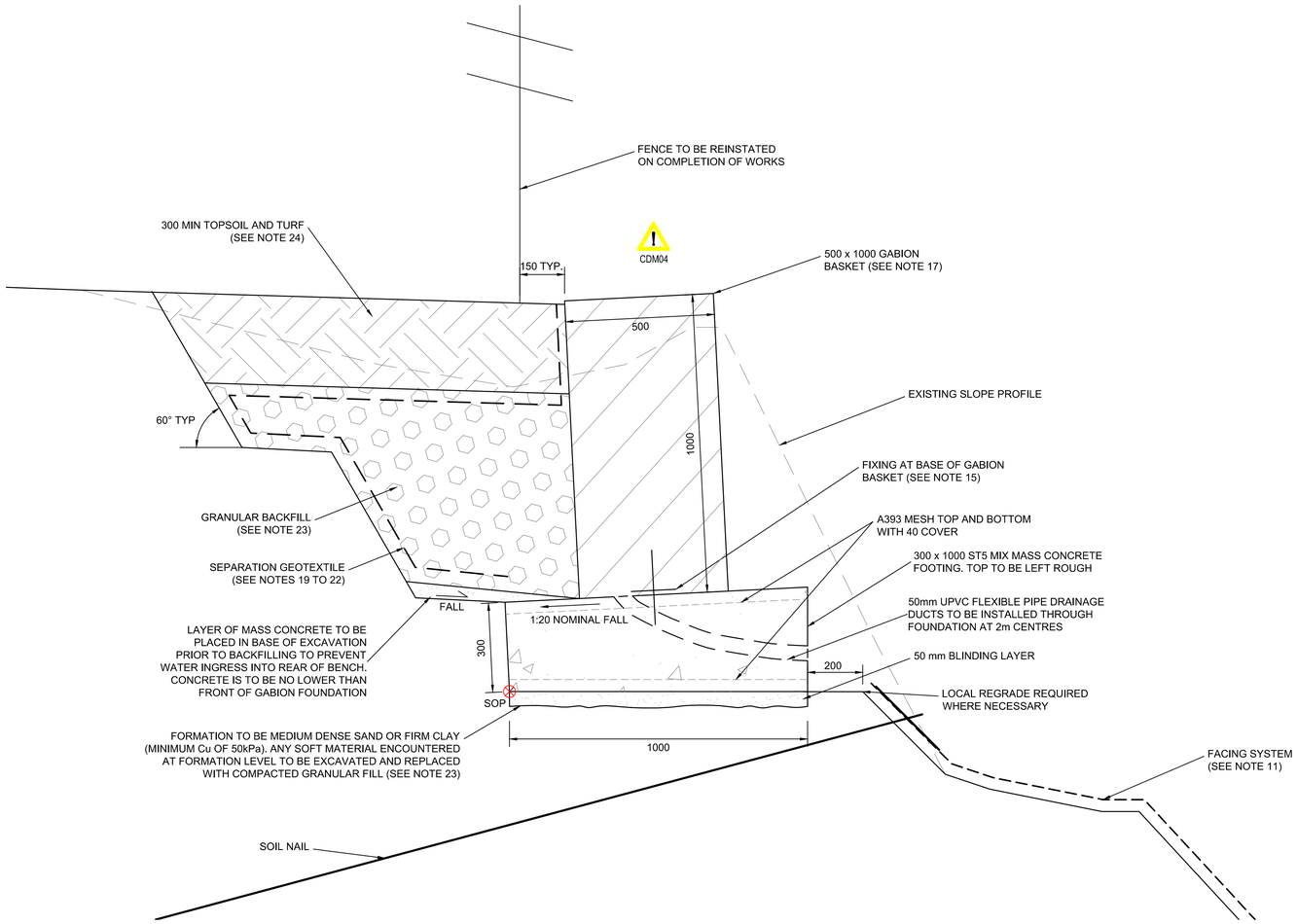
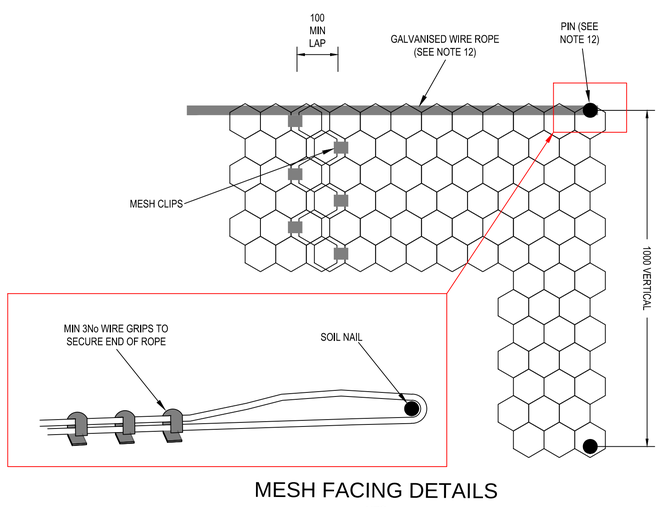
ISO A1 594mm x 841mm



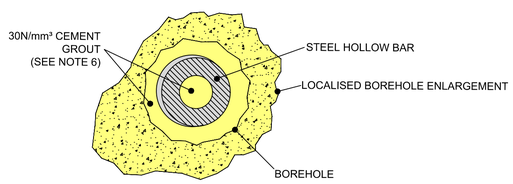
TYPICAL GABION DETAIL

SCALE 1 : 10



MESH FACING DETAILS

NTS



SECTION A - A'

SOIL NAIL DETAIL

SCALE 1 : 10

NOTES CONT.

FACING

9. SOIL NAIL HEAD DETAILS TO COMPLY WITH BS EN 10025 AND TO COMPRISE 350X350X20 GALVANISED S355 STEEL HEAD PLATE AND DOMED NUT TO MATCH THE SLOPE PROFILE.
10. ZINC BASED ANTI-CORROSION PAINT TO BE APPLIED TO ALL EXPOSED STEEL ON COMPLETION.
11. FACING IS TO COMPRISE A DOUBLE TWIST WOVEN HEXAGONAL MESH WITH GALVANIC CORROSION PROTECTION AND A PVC COATING. IN AREAS WHERE BARE EARTH IS EXPOSED, INTEGRATED ENTANGLED UV STABILISED POLYPROPYLENE MONOFILAMENT EROSION PROTECTION MATTING IS REQUIRED. MESH IS TO HAVE A MINIMUM TENSILE STRENGTH OF 55 kN/m. FINAL ARRANGEMENT OF MESH AND HEAD PLATES TO BE APPROVED BY THE DESIGNER. MESH CLIPS AND PINS TO COMPLY WITH SUPPLIERS RECOMMENDATIONS.
12. TOP OF MESHING IS TO BE SECURED WITH A 12mm GALVANISED WIRE ROPE THREADED THROUGH THE HEXAGONAL MESH. SIDES OF MESHING ARE TO BE SECURED WITH 600mm LONG PINS INSTALLED AT 1000mm VERTICAL CENTRES.
13. FOLLOWING INSTALLATION IN AREAS OF BARE EARTH, THE MESH AND EROSION PROTECTION SYSTEM IS TO BE BRUSHED WITH TOP SOIL AND SEEDED WITH A SUITABLE GRASS AND WILD FLOWER MIX.
14. LENGTH OF EXPOSED SOIL NAIL BEYOND NUT TO BE 50 MIN AND 100 MAX. NUT TO BE TIGHTENED TO MANUFACTURER'S RECOMMENDATIONS.

GABION BASKET

15. GABION BASKETS TO BE FIXED TO CONCRETE FOOTING USING 20mm DIAMETER THREADED BAR, EMBEDDED 100 MIN INTO CONCRETE AND FIXED TO GABION USING A 150X150X10 GALVANISED STEEL HEAD PLATE AND NUTS. BARS TO EXTEND 150 MIN FROM TOP OF CONCRETE SURFACE. BARS TO BE AT 1m CENTRES.
16. GABION BASKETS TO BE FILLED BY HAND WITH VOIDS BEING MINIMISED WHEREVER POSSIBLE TO CREATE OPTIMUM PACKING.
17. GABION BASKETS ARE TO BE WELDED MESH WITH 75mm APPROX. MAX OPENINGS AND 4mm GALFAN COATED WIRE TO CONFORM TO EN 10218-2. MESH PANELS ARE TO CONFORM TO EN10244-2 WITH A TENSILE RANGE OF 540-770N/mm², STEEL GRADE 0.10% CARBON MAX, WELD SHEER STRENGTH MINIMUM 75% OF THE TENSILE STRENGTH OF THE WIRE. BASKETS ARE TO BE FILLED WITH HAND PLACED LOCALLY SOURCED LIMESTONE CLASS HA/6G FILL.
18. MINIMUM PARTICLE DIAMETER OF GABION FILL TO BE NO SMALLER THAN GABION BASKET MESH OPENINGS.

GEOTEXTILE

19. GEOTEXTILES SHALL BE SYNTHETIC NON-WOVEN, THERMALLY BONDED OR MECHANICALLY NEEDLED FABRIC COMPOSED OF POLYPROPYLENE OR POLYESTER FILAMENTS.
20. THE GEOTEXTILE MATERIAL SHALL HAVE A MINIMUM DESIGN LIFE OF 60 YEARS.
21. THE GEOTEXTILE SHALL SATISFY O90/D85<1, WHERE O90 IS THE 90% PORE SIZE OF THE GEOTEXTILE AND D85 IS THE 85% SIZE OF THE MATERIAL ON WHICH THE GEOTEXTILE IS LAID. MAXIMUM O90 TO BE 200µm.
22. GEOTEXTILE OVERLAPPING IS TO BE A MINIMUM OF 500mm.

OTHER

23. GRANULAR FILL IS TO COMPRISE HA TYPE B DRAINAGE MATERIAL (20/40), NOMINALLY COMPACTED BY HAND.
24. EXISTING TOPSOIL AND TURF TO BE STRIPPED AT START OF WORKS AND RETAINED FOR REUSE. THE CONTRACTOR IS RESPONSIBLE FOR SUCCESSFUL PRESERVATION OF EXISTING TURF OVER THE COURSE OF THE WORKS, AND SHALL MAKE UP ANY SHORTFALL WITH IMPORTED TURF.

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AECOM

PROJECT

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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION.
2. DO NOT SCALE FROM THIS DRAWING, USE ONLY PRINTED DIMENSIONS.
3. ALL DIMENSIONS IN MILLIMETRES, ALL CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS DEFINED OTHERWISE.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH & SAFETY FILE FOR ANY IDENTIFIED POTENTIAL RISKS.

SOIL NAIL INSTALLATION

5. SOIL NAILS INSTALLED BY SELF-DRILLING METHOD USING 110 (MIN) DIAMETER HOLE. SOIL NAILS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. USE OF EITHER GROUT OR AIR FLUSH IS TO BE SELECTED BASED ON GROUND CONDITIONS TO PREVENT CLOGGING OF DRILL STRING BY SOFT CLAY, OR COLLAPSE OF HOLE.

GROUTING

6. CEMENT USED TO GROUT BARS TO BE ORDINARY PORTLAND CEMENT COMPLYING WITH BS EN 197-1:2000 WITH WATER CEMENT RATIO NOT EXCEEDING 0.45 AND MIN CHARACTERISTIC 28 DAYS STRENGTH OF 30N/mm² WHEN TESTED ON GROUT RETURN SAMPLES. GROUT IS TO BE SULPHATE RESISTANCE CLASS DC3, SUITABLE FOR AC3Z CONDITIONS.

SOIL NAILS

7. ALL SOILS NAILS TO HAVE A MINIMUM ULTIMATE STRENGTH OF 420kN.
8. SOIL NAILS WITHIN 2750mm OF THE SURFACE ARE TO BE HOT DIP GALVANISED TO PROVIDE A MEAN COATING THICKNESS OF 86µm.

First Issue	GC / TP	06.11.2020	P01
REVISION DETAILS	BY / CHECK	DATE	SUFFIX

PROJECT MANAGEMENT INITIALS

DESIGNED: TP CHECKED:EB APPROVED:IMS

INTERNAL PROJECT NUMBER 60638839

SCALE AS SHOWN

STATUS FOR TENDER

BS1192 SUITABILITY

SHEET TITLE

REMEDIAL WORKS
DETAILS

DRAWING NUMBER 60638839-GEO-DR-210

REV P01

Last saved by: GARY.J.COOPER(2020-11-06) Last Plotted: 2020-11-06
Filename: L:\60616595 CRICH (HILTS) QUARRY ROLLS ROYCE\2-0 PROJ INFO\2-3 DOCS\2-3-1 DRAFT DOCS\CAD DATA\60638839_GEO_DR_210_P01.DWG