



**SPECIFICATION NOTES**

DO NOT SCALE THIS DRAWING.

ALL WORK IS TO BE CARRIED OUT TO THE APPROVAL OF NGED ENGINEER WORKMANSHIP AND MATERIALS TO CONFORM WITH THE LATEST EDITION OF THE RELEVANT CODES OF PRACTICE OR BRITISH STANDARDS AND EUROCODES

THE CONTRACTOR IS TO LOCATE AND DIVERT SERVICES AS NECESSARY PRIOR TO EXCAVATION WORK.

ALL PROPRIETY PRODUCTS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

**EXCAVATION**

FORMATION LEVEL TO BE INSPECTED BY A SUITABLY QUALIFIED/EXPERIENCED ENGINEER TO ENSURE THAT IT IS OF SUITABLE DENSITY. ANY SOFT OR VERY LOOSE POCKETS ENCOUNTERED ARE TO BE EXCAVATED AND REPLACED WITH BLINDING CONCRETE. MAXIMUM FOUNDATION BEARING PRESSURE= 100kN/m<sup>2</sup>

CLAY SOILS ARE LIKELY TO RAPIDLY SOFTEN UPON EXPOSURE TO RAINWATER, RAIN OR FROST AND SHOULD THEREFORE BE COVERED WITH BLINDING CONCRETE AS SOON AFTER EXPOSURE AND CHECKING AS POSSIBLE. WHERE THIS IS UNAVOIDABLE, THE UPPER SOFTENED LAYER SHOULD BE SKIMMED PRIOR TO BLINDING.

**CONCRETE SPECIFICATION**

ALL STRUCTURAL CONCRETE TO BE C32/40 WITH NOMINAL MAX AGGREGATE SIZE 20mm. MINIMUM OPC CONTENT 330kg/m<sup>3</sup>, MINIMUM WATER/CEMENT RATIO= 0.5 DESIGN SULPHATE CLASS DS-2 AND ACIC CLASS AC-2

BLINDING AND MASS CONCRETE TO BE GRADE C16/20. BLINDING TO BE 50mm THICK UNLESS NOTED OTHERWISE.

EXTERNAL CORNERS VISIBLE WHEN WORK IS COMPLETED TO HAVE 25mm CHAMFERS UNLESS NOTED OTHERWISE FORMWORK TIES WHERE INSTALLED SHALL BE REMOVABLE AND HAVE CAST IN MIDDLE SECTION DESIGNED FOR WATER RETAINING CONSTRUCTION.

CONTRACTOR TO CONFIRM POSITION AND DETAIL OF ANY CONSTRUCTION JOINTS WITH WPD PROJECT ENGINEER

**STEEL REINFORCEMENT**

ALL STEEL REINFORCEMENT TO BE HIGH YIELD GRADE 500N/mm<sup>2</sup> BARS

MINIMUM LAP LENGTH TO BE 40x BAR DIAMETER

MINIMUM COVER TO ALL REINFORCEMENT TO BE 50mm SUITABLE CHAIRS AND SPACER BLOCKS TO BE USED TO MAINTAIN COVER TO REINFORCEMENT.

PROVIDE STEEL FLAT FINISH TO ALL EXPOSED CONCRETE.

**CONCRETE BLOCKWORK**

CONCRETE BLOCKWORK TO CONFORM TO BS6073

MINIMUM COMPRESSIVE STRENGTH= 7N/mm<sup>2</sup>

**BACKFILLING**

CABLE TRENCH TO BE BACKFILLED WITH SELECTED HARDCORE AFTER CABLE INSTALLATION

CABLES TO BE SURROUNDED IN MINIMUM 150mm STONE DUST

**ON COMPLETION**

WHERE APPLICABLE AREA IN FRONT OF PLINTH AND SITE BOUNDARY TO BE PAVED WITH 600X600X50mm THICK CONCRETE PAVING SLABS

ALL REMAINING EXPOSED GROUND SURFACES WITHIN SITE BOUNDARY TO BE DRESSED WITH A 75mm THICK LAYER OF SINGLE SIZED STONE CHIPPINGS.

TOC= TOP OF CONCRETE LEVEL  
FFL= FINISHED FLOOR LEVEL

**EARTHING REQUIREMENTS**

FOUNDATION FLOOR SLAB REINFORCEMENT TO BE CONNECTED TO BELOW GROUND HV EARTH MAT IN MINIMUM 2 PLACES.

CIVIL CONTRACTOR MUST INSTALL 2no. #16mm REINFORCEMENT L BARS IN FOUNDATION/FLOOR SLAB- TIED IN MIN 4 PLACES TO TOP LAYER OF MESH REINFORCEMENT.

L BAR TO PROTRUDE FROM FLOOR SLAB INTO MAIN CABLE ENTRY SLOT.

**EARTHING REINFORCEMENT DETAILS**

REBAR DIAMETER: #16mm

REBAR SHAPE CODE TO BS8866: 11 (L BAR)

REBAR TOTAL LENGTH: 1400mm

DM A: 200mm DM B: 1200mm

FOR FURTHER EARTHING DETAILS PLEASE SEE NGED POLICY DOCUMENTS T31201A TO T31201H. CONSTRUCTION DRAWING EXAMPLES ARE CLEARLY SHOWN IN SECTION 5.0.

NGED ENGINEER TO PROVIDE THESE CONSTRUCTION DRAWINGS TO CIVIL CONTRACTOR UPON REQUEST.

SECTION B-B  
SCALE 1:20

SECTION C-C  
SCALE 1:20

ORIGINAL ISSUE	Date		Engineering Design (South West) Avonbank, Feeder Road, Bristol, BS2 0TB				
Drawn	PAS 13.10.22						
Checked							
Approved							
Scale		Title	STANDARD TECHNIQUE: NC1V Drg. No. NC1V-001				
1:0 PAS 13.10.22	ISSUED FOR CONSTRUCTION	Revision	Rev No. 1.0				
Rev No	Drawn	Chk'd	App'd	Date	Revision	ORIGINAL SHEET SIZE: A1	STANDARD TECHNIQUE: NC1V GROUND MOUNTED TRANSFORMER (UP TO 1000kVA) FOUNDATION LAYOUT & DETAILS- OPTION 1

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