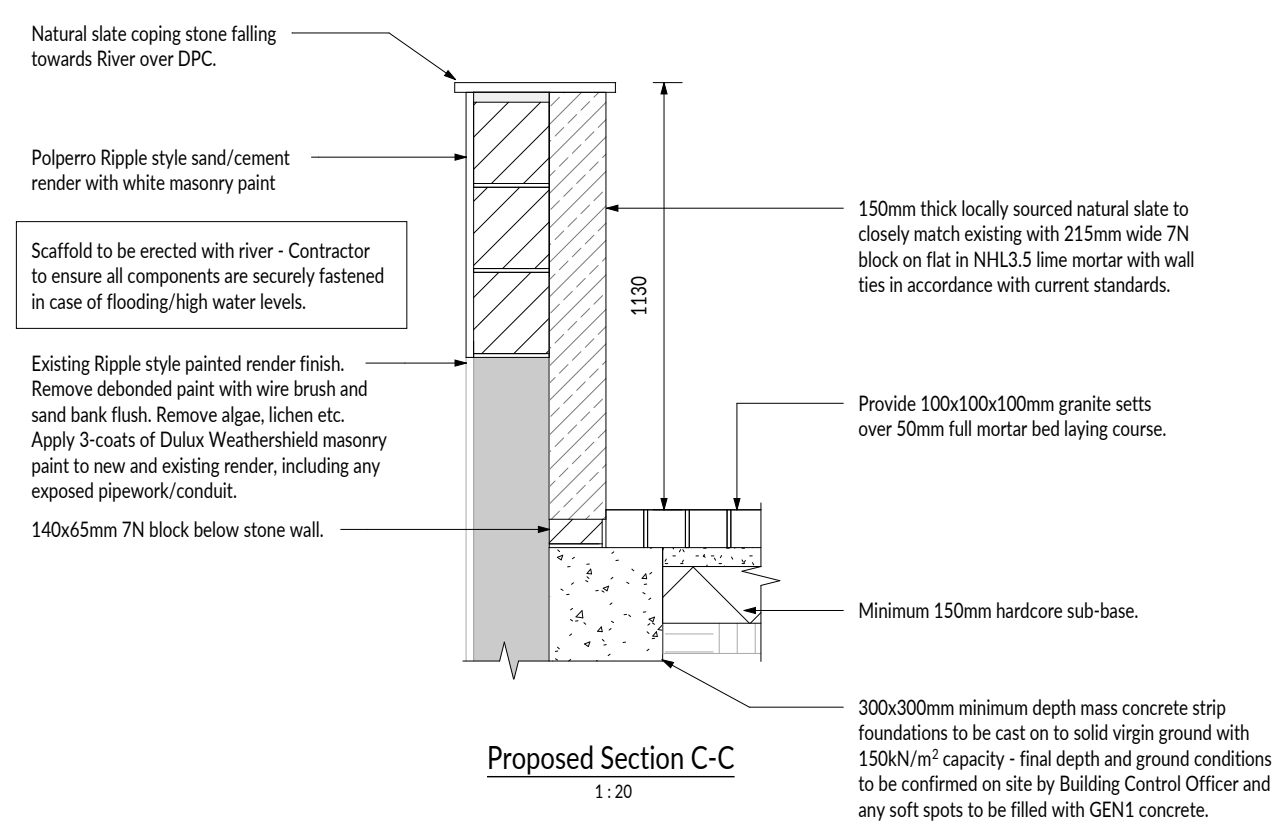
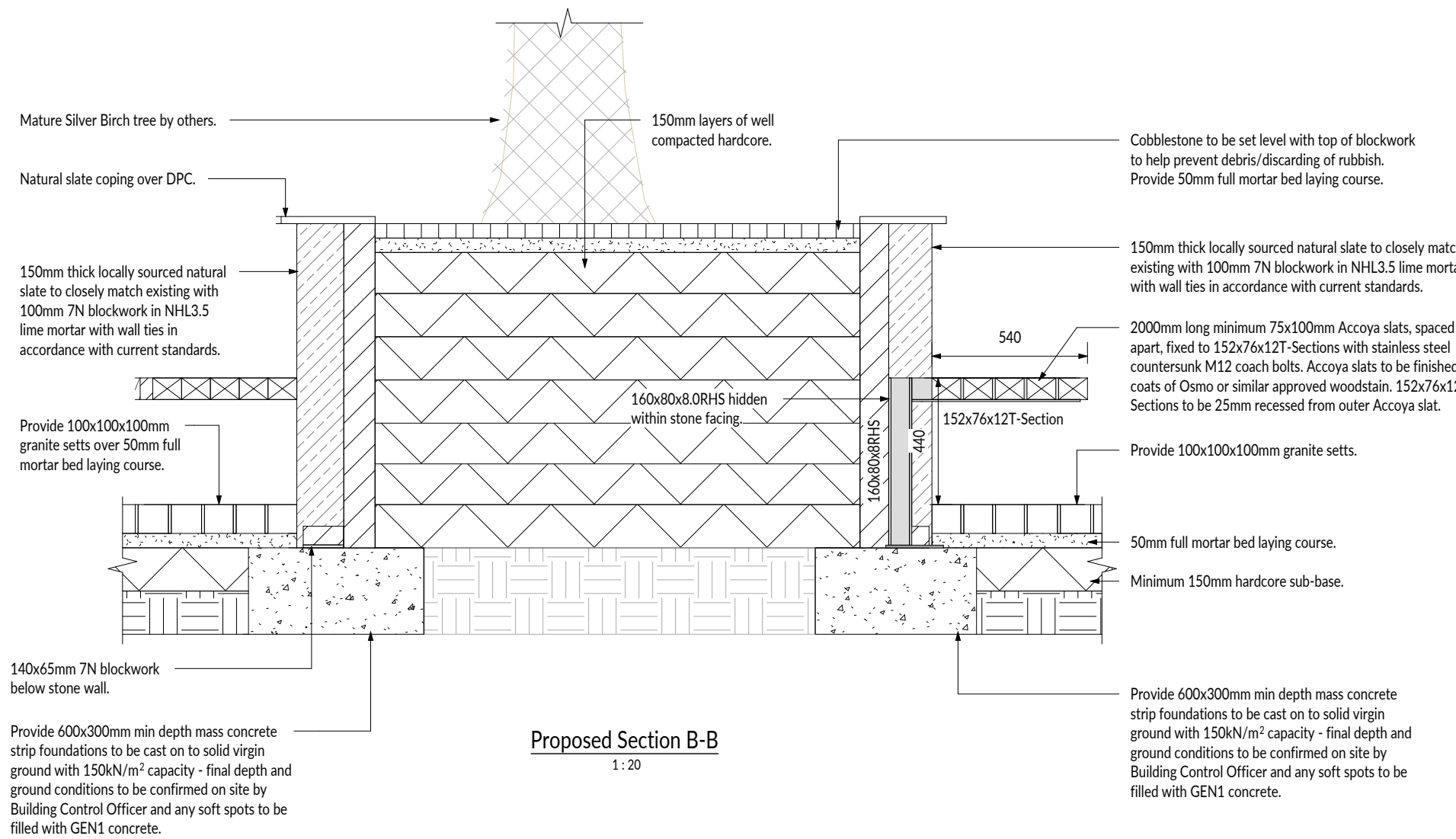


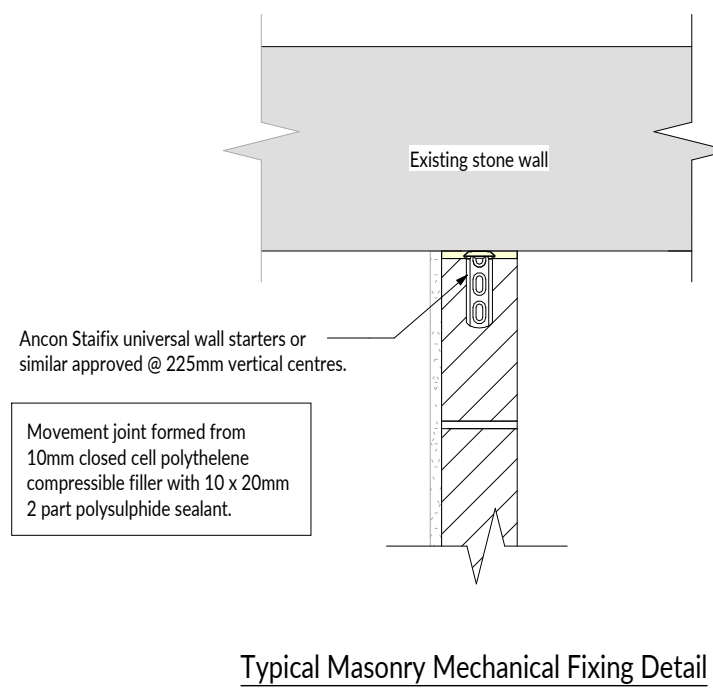
Proposed Section A-A
1:20



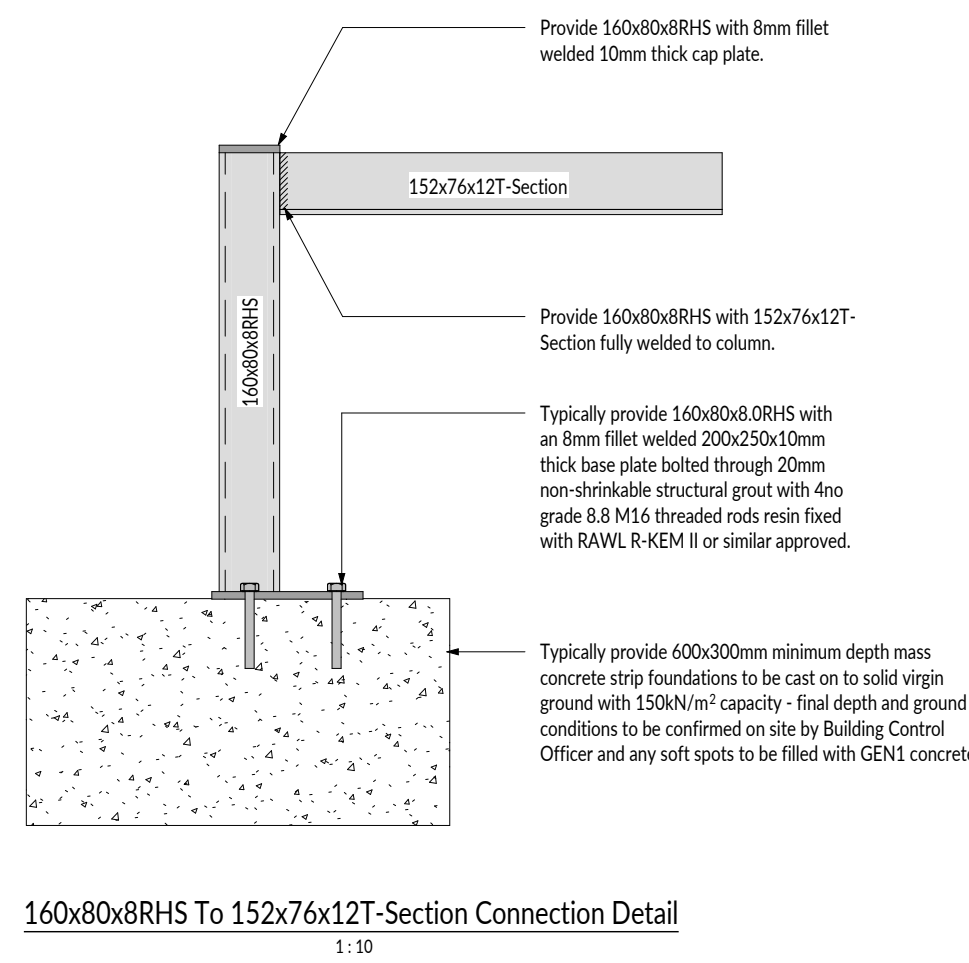
Proposed Section C-C
1:20



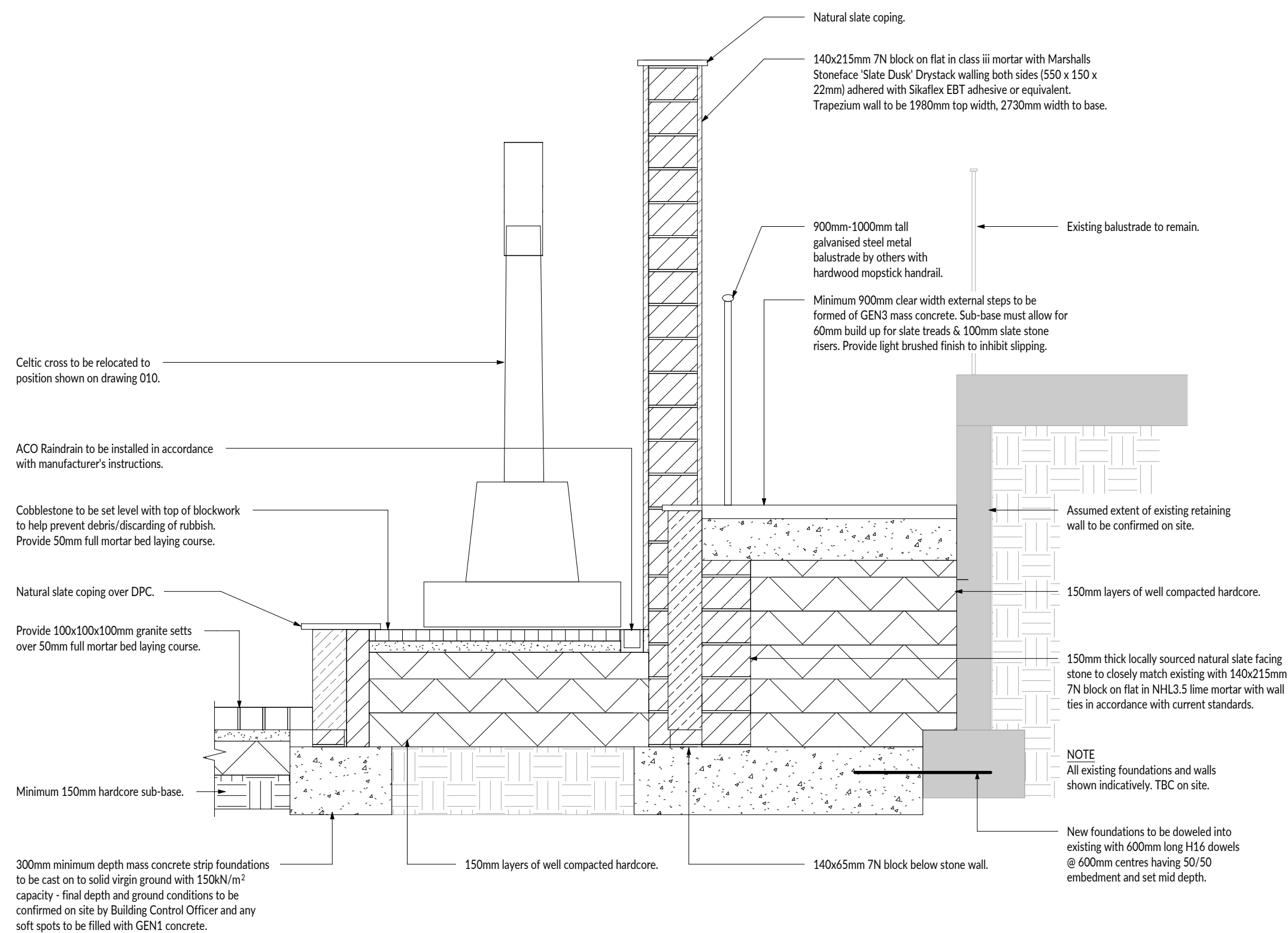
Proposed Section B-B
1:20



Typical Masonry Mechanical Fixing Detail
1:10



160x80x8RHS To 152x76x12T-Section Connection Detail
1:10



Proposed Section D-D
1:20

STEELWORK NOTES

The Contractor is to take accurate site dimensions prior to commencement of fabrication details for new steelwork. Fabrication details to be submitted to Engineer for comment prior to fabrication.

Levels of all new steelwork to be determined on site and agreed with Architect prior to fabrication.

New steel beams to be packed tight against the existing walls using dry pack prior to the removal of the need and props.

No variation to the structural details shown on this drawing is to be undertaken without prior approval from the Engineer.

All columns to be continuous unless detailed otherwise and a splice detail is provided.

All steelwork to be hot rolled grade S355J0 to BS EN 10025:2019, unless stated otherwise.

All hollow sections to be hot rolled grade S235J2H to BS EN 10210:2006, unless stated otherwise.

All structural steelwork has been designed and shall be fabricated in accordance with BS EN 1090 to execution class 2, unless stated otherwise.

All beams to have a minimum bearing on 150mm where possible.

Steelwork Protection - All steelwork to be blast cleaned to Sa 2½ in accordance with BS EN ISO 12944.

Internal Specification - coat with a Zinc phosphate epoxy primer to 85 µm in accordance with BS EN ISO 12944.

External Specification - hot dip galvanised to 140µm in accordance with BS EN ISO 1461 and 14713.

All bolts to be grade 8.8 and spun galvanised unless otherwise stated.

All bolt holes to be 2mm clearance holes to suit size of bolt.

All welds shall be 8mm continuous fillet welds or full penetration butt welds unless otherwise stated.

All steel beams shall be pre-drilled for web packers and flange plate fixings for M10 bolts at 400mm staggered centres.

All pairs of beams to be space bolted together using M16 bolts with spacer tubes at max 400mm staggered centres.

Fabricator to issue fabrication drawings to Structural Engineer and Architect for comment a minimum of 5 days prior to fabrication. Final approval of fabrications drawings by Architect.

STONEWORK NOTES

All stonework to be 150mm thick locally sourced natural slate to closely match existing unless stated otherwise.

Mortar joint widths to closely match existing.

Lime - Natural Hydraulic Lime NHL3.5 (Moderately Hydraulic) obtained from: Cornish Lime Company - 01208 79779 or equal.

Sand - Sand to be approved. A sample panel of stonework should be prepared & fully pointed to be approved prior to construction.

NHL3.5 lime mortar to form bedding of natural slate coping stone.

Mortar to existing stonework to be re-pointed with 2 volumes of NHL3.5 lime : 5 Volumes of approved Sand.

GENERAL NOTES

This drawing is to be read in conjunction with all other relevant Specialist drawings, details and the relevant Health and Safety Plan (as appropriate).

DO NOT set out from this drawing. Check all dimensions and consult Engineer if any queries arise. Do not scale from drawings.

All dimensions to be checked on site. All details and dimensions relating the sub-contractors or suppliers work must be checked and agreed between the subcontractors or supplier and the general contractor.

Works to comply with current Codes of Practice, Eurocode, British Standards and Building Regulations.

Contractor to provide all necessary vertical and lateral restraint strapping in order to comply with The Building Regulations.

Temporary Stability - Contractor to provide all necessary temporary propping to safely undertake the works.

Roof and Trimming - Design of roof structure, trimmers and connections to be prepared by suitably qualified persons prior to construction.

Party Wall - Works come under the Party Wall Etc. Act 1996. All appropriate notices and awards should be issued prior to work taking place.

CONCRETE

All concrete to be specified in accordance with BS 8500:2015 parts 1 and 2, and BS EN 206:2013.

Unless detailed and scheduled the contractor is to provide all necessary reinforcement spacer chairs.

All concrete to be RC32/40 concrete, unless stated otherwise.

All shuttering to shuttered concrete to others details.

Plain concrete in foundations shall be placed in direct contact with the bottom of the excavation, the concrete being deposited in such a manner as not to be mixed with the earth.

The bottom of excavations for reinforced concrete works shall be covered with a blinding layer of C8/10 GEN 1 concrete not less than 50mm thick with a smooth surface.

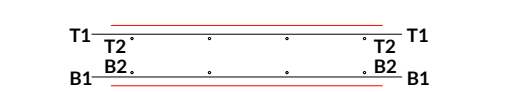
No concrete shall be mixed or placed while the temperature is below 1° C on a rising thermometer or 2° C on a falling thermometer.

Newly placed concrete shall be protected by approved means from frost, rain, sun and drying winds.

All reinforcement to have minimum 40mm cover, 50mm to underside, unless stated otherwise.

Detailing of day work/construction joints by groundworks contractor. Positions to be agreed with engineer.

Bar annotation as set out below:



Abbreviations:

T1/2 = Top Face (T1=Outer Layer, T2=Inner Layer)
B1/2 = Bottom Face (B1=Outer Layer, B2=Inner Layer)
NF = Near Face (N1=Outer Layer, N2=Inner Layer)
FF = Far Face (F=Outer Layer, F2=Inner Layer)
EF = Each Face, AB = Alternative Bars
STG = Staggered Bars
ABR = Alternate Bars Reversed

Services are not expected to exceed 150mm diameter and are to be suitably sleeved through reinforced concrete elements. Bars may be locally displaced to accommodate this.

All reinforcement to have minimum lap lengths set out below:

H10	400mm
H12	480mm
H16	640mm
H20	800mm
H25	1000mm
H32	1280mm

Reinforcement to be inspected & approved by the Engineer before concrete casting commences (min 24 hour notice).

Concrete shall be placed and fully compacted to avoid cold joints, honeycombing and to minimise segregation, excessive blemishes or other defects in the concrete.

- Designers Risk Assessment:
- Installation of heavy beams - Mechanical aids should be employed if required when installing beams.
 - Temporary Support - The contractor is to provide all necessary temporary propping to safely undertake the work and maintain structural stability, including sides of excavations for sub structure and retaining elements.
 - Confirmation of Structural Layout - The assumptions made within the calculations and drawing should be confirmed on site, prior to commencement of works. Any differences should be discussed with Structural Engineer, in order to check calculations.
 - Working at height - Suitable scaffold to be provided in order to carry out works safely.
 - Asbestos - Any suspected Asbestos containing materials should be tested and removed by specialist contractors in accordance with HSE guidance.

TENDER

Revision	Date	Author	Description
PR1	22.01.2024	JAT	PRELIMINARY ISSUE FOR COMMENT
TE1	01.02.2024	JAT	AMENDMENTS TO SCHEME AS OUTLINED IN ISSUE EMAIL

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MRS L STOREY
BIG GREEN, POLPERRO

Scale(s):
As indicated @ A1

Project No:
23521

Drawn By:
JAT

Drawing No:
012

Checked:
MWP

Revision:
TE1