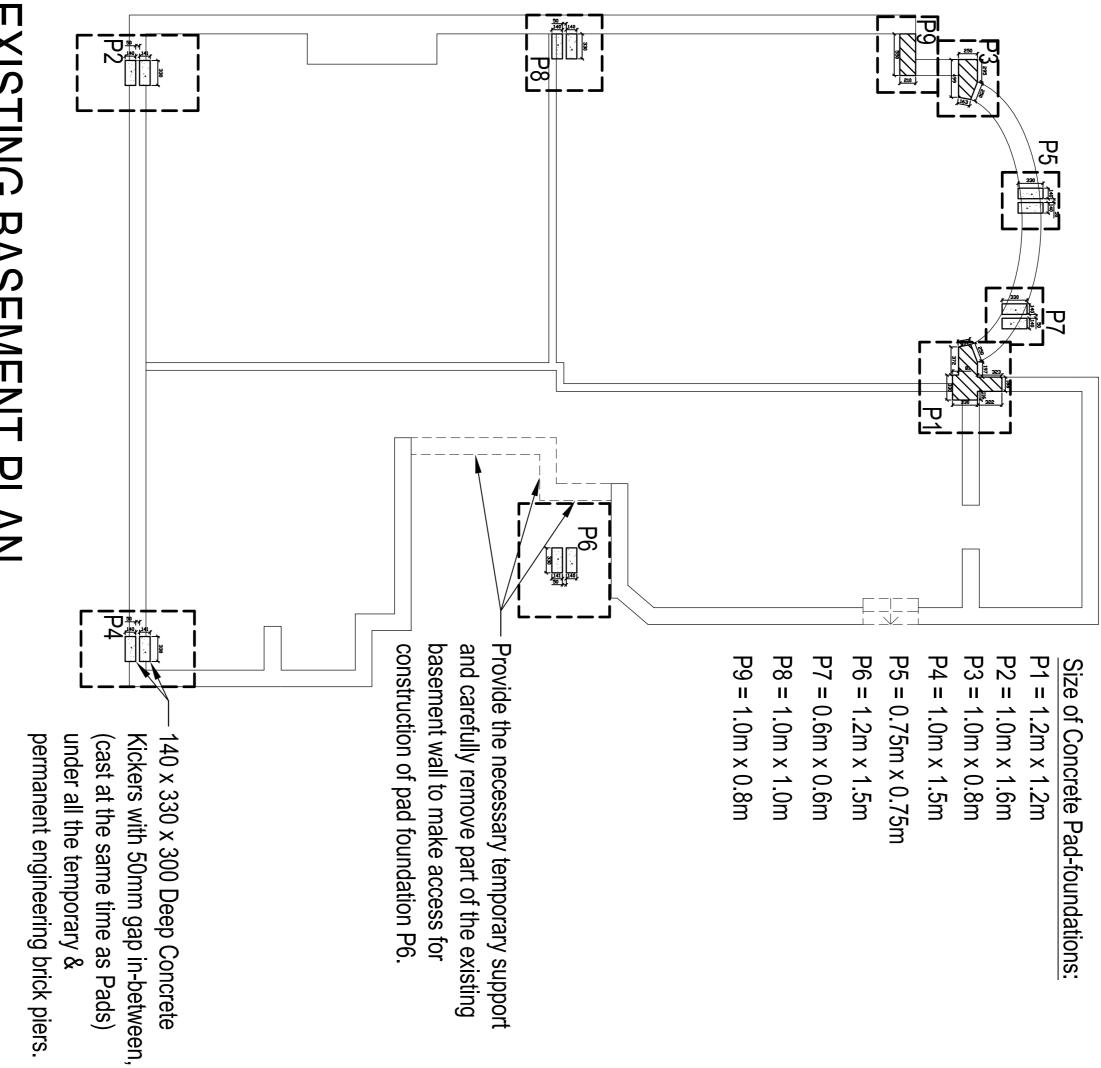
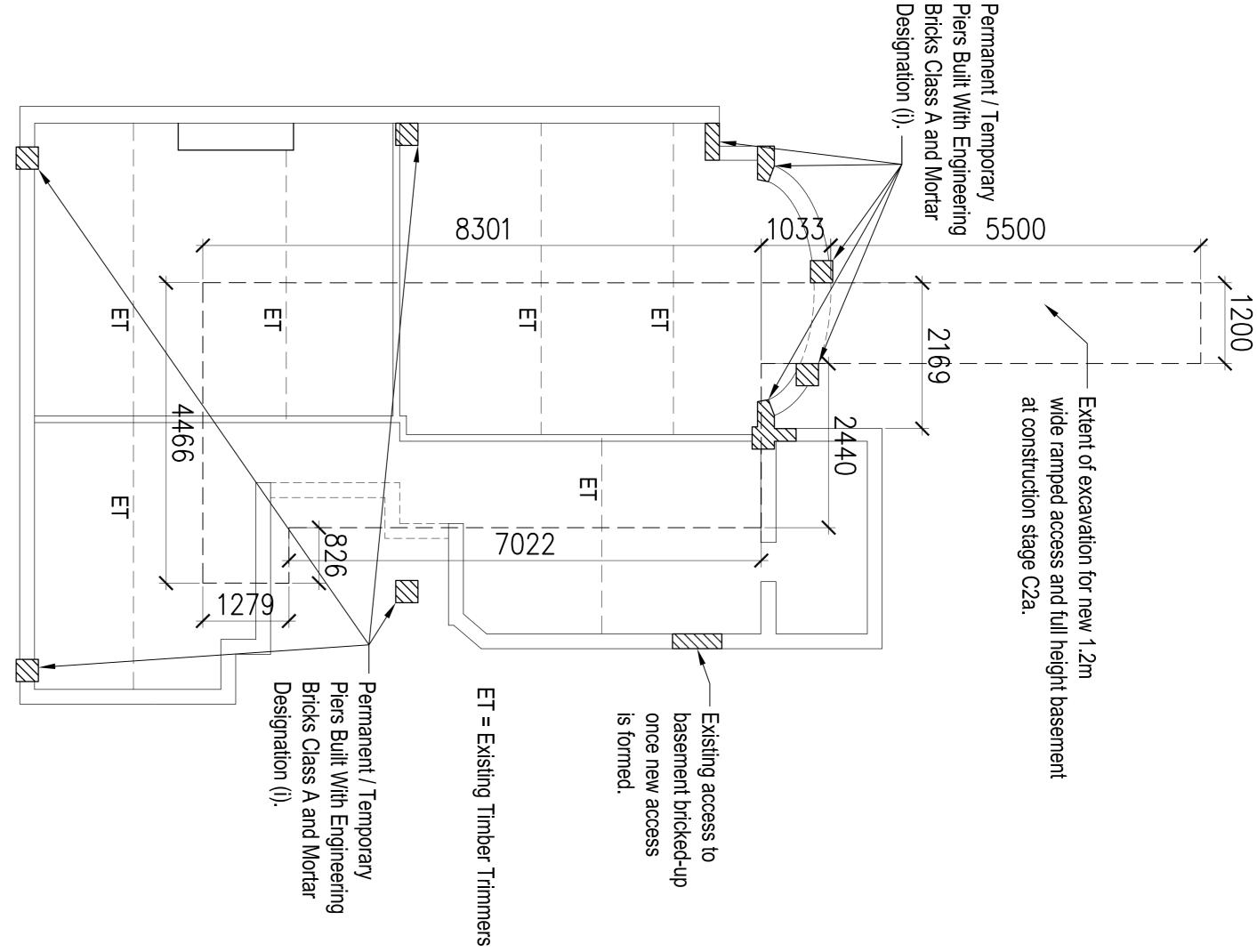
foundations have achieved adequate strength (usually after a week) then start building the engineering brick (Class A & Mortar Designation i) piers in the same sequences as the pad sacrificial pad foundations, starting from P1 to P9 in sequences. Once the concrete pad wall to make access for construction of pad foundation P6. Excavate & construct the 8 nos Provide the necessary temporary support and carefully remove part of the existing basement foundations. Engineering brick piers P4 to P8 are temporary until the under-pinning operation



EXISTING BASEMENT PLAN

between) & Engineering Brick Piers) 300mm deep kickers with 50mm gap in Pad Foundations with (2 No. 140 x 330 x Construction Stage C1



BASEMENT PLAN Construction Stage C2a

bricks teeth into existing one at each side. between new engineering brick piers P5 & P7). Then Block the existing access to basement with new Excavate to form new 1.2m wide ramped access to basement to the front of the building (within the gaps

A

ng to be reported to the Practice for clarification erred to in these drawings are to be installed/fi

1) All structural steelwork is to comply with the provisions of BS 5950: Part 1 & 2 Structural Use of Steel in Buildings.

2) Materials workmanship and fabrication specification to comply with the Provisions of the National Structural: Specification for Building Construction - Third Edition, produced by BCSA & SCA.

3) The beams sections specified on the drawing are to comply with BS EN 10025:1990 Grade Fe 430B for Sections and BS EN 10210-1 Grade S275J0H for Hollow Sections.

4) All beams are to be fireproofed to provide a minimum of One hour fire resistance where exposed.

5) Beams to be set on engineering brick piers or concrete padstones as indicated using concrete Grade C20 where load bearing masonry walls with a Minimum bearing each end of 150mm.

6) Internal beams to receive one coat of Red Oxide Primer. External steelwork to be galvanised.

7) End Plate Connections not detailed on the drawings are to include 15mm end plates and minimum 4xM16, 8.8 Bolts 12) Where not detailed on the drawings minimum fillet welds are to be 6mm continuous fillet welds. STRUCTURAL STEELWORK

1) All structural steelwork is to co
2) Materials workmanship and fz

REINFORCED CONCRETE

1) All concrete work is to comply with the provisions of BS8110 Part 1 The structural Use of Concrete.

2) The Contractor may purchase ready mixed concrete and/or mix concrete on site.

3) The grades of concrete to be used on site are C40 selected from BS 5328 Methods of Specifying C RC35/Gen 1/ST1

4) Cement, unless otherwise stated, is to be ordinary or rapid hardening Portland cement to BS 12.

5) Cement content 300kg/m3 with a maximum free water/cement ratio of 0.6.

6) Reinforcement is to be Hot Rolled H deformed type 2 Steel bars to BS4449 & BS 4461 Grade 500; and Fabric to BS 4483.

7) All steel bars to be clean and free from deleterious substances, loose rust or scale, or any coating that would impair the bond.

8) All reinforcement is to be fabricated as detailed on the bar bending schedules, cut and bent in accordance with BS 4466 and properly fixed in position with adequate chairs, spacers, tying wire etc to maintain the concrete cover specified.

9) Concrete cover to reinforcement to be a minimum of 40mm.

10) Minimum lap lengths of reinforcement:

FOUNDATION/RC SLAB

1) Semi-raft foundation RC Slab

The foundations to be founded in the London Clay???.

A safe bearing capacity of 150KN/m2 can be/has been adopted for foundation design.

Appropriate Building Control Inspector or the Engineer to be informed for Inspection at Foundation Stage prior to concreting. Concrete to the Foundations are to be Grade C40 with a minimum cement content of 275kg/m3 and a maximum free water/cement to of 0.65 for Class 1 sulphates conditions.

Underpinning is to be carried out in short sections of about 900mm in length. The bottoms of the foundations shall be inspected appropriate Building Inspector before concrete is poured. The underpinning is to be carried out to the satisfaction of the proved by appropriate Building Inspector.

Underpinning shall follow the sequence as indicated on the plan unless otherwise agreed on site.

Concreting to the underside of existing foundation may be undertaken in one operation without dry packing to achieve full contains the base of the existing wall or by use of 75mm thick dry packing 1:1 cement:sand ensuring a full contact to the underside of the isting foundation.

A period of 24 hours must elapse from completion of concreting of one section to commencement of the next numbered on site.

vithout dry packing to achieve full contact ring a full contact to the underside of the

No section is to be commenced until the previous numbered section is totally completed.

The junctions of each section are to be connected by H10 bars at 200mm c/c in each face, to facility and the project 300mm into each section. Where these dowels become exposed, during the prinning, they are to be cleaned free of soil etc.

All excavations are to be kept free of water.

Concrete for underpinning is to be C40 to BS 5328 as for the retaining wall base.

The concrete shall be properly compacted using immersion vibrators and shall not take place when

RETAINING WALLS - DESIGN PARAMETERS
1) Factor of Safety 2.0 against Rotation to BS8002, SI
2) Surcharge 10 KN/sq metre (To BS5400)
3) Zero Water Pressure

MASONRY WALLS

All brickwork and blockwork is to comply with the provisions of BS 5628: Part 3 Use of Ma

fer to Bar Bending Schedule ????
ickworks to be Class A Engineering Bricks bonded with Mortar wall stem is to be constructed in maximum lifts of 1.0 metrest concrete infill is to be left at least one course below the top of the ded to support the wall facing during concreting.

ultate installation of new linters and or beams, nage the supporting structures.

on details and is to be submitted to the Engineer

Acrow props or other support device each side of the wall to be supported aken down to firm supports which means that timber floors must not be use of 900mm

TIMBER STRUCTURES

1) All new timber is to be Grade SC4 unless otherwise indica:
2) All Timber is to be Preservative Treated using an approved im 415 or

Qaiser & Uzma

Drawing PROPOSED BASEMENT CONVERSION cale 1:50 Basement Plans - Stages C1 & The Avenue, London NN10 2QL Structural G.A.'s STATUS: STATUS2

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