



Existing wall/foundation to be underpinned in Reinforced Concrete to allow construction of new basement. Refer to relevant sections and specification for details.
 - Wall stem to be minimum 300-340 (as per plan) thick grade C32/40 reinforced concrete cast in 1000mm max lengths with 300 deep RC base. Provide H16 dowel bars at 300 centres between adjacent underpinning legs. Underpin to be temporarily propped at base and top of underpin.
 Allow for separate drain cavity and foul sump as per location noted in architects drawings.

LRS
Lateral restraint strapping to all perimeter walls not shown. Allow for 5THK straps at 1.2m CRS as per GN-001 (TBC)

LINTELS SCHEDULE

(L1)	Pre-stressed Concrete Supreme R15A 140d x 100w inner face. Outer face-brick arch or stone to architects/specialists details.
(LB)	Bespoken arched lintels to specialists to design

150mm end bearing either end. Refer to GN-001 for further details.

COLUMN SCHEDULE:

C1:	152x152x37 UC
C2:	203x203x46 UC
C3:	200x100x8.0 RHS
C4:	100x100x10.0 SHS
C5:	80x80x8.0 SHS

Use 15thk base plate and 4M16 holding down resin bolts to footing.
 UC columns to be resin bolted to existing wall with M10 at 600 vertical crs. SHS column to be fixed to masonry wall via angle bracket with 2M8 at 600crs.
 All steelwork to be S355. See DE for details. Refer to GN-001 for further specification notes.

STEEL BEAMS SCHEDULE S355:

GB1:	152x152x30UC
GB2:	254x254x89UC
GB3:	254x254x73UC
GB4:	200x90x30PFC
GB5:	203x203x46UC

NOTES
Vuls
75kN ULS

1B1:	152x152x23UC
1B2:	203x203x60UC
1B3:	203x203x46UC
1B4:	203x203x48UC
1B5:	203x133x30UB
1B6:	150x90x24PFC

RB1:	152x152x23UC
RB2:	152x152x23UC
RB3:	203x203x60UC
CB1:	203x203x46UC

- HL - Higher Level
 - LL - Lower Level
 - # - Allow for 10THK S275 plate to support Masonry over
 - (SP) - Allow for splice
 - (FP) - Allow for fillet plate as per details.
 - Refer to plans and schedule for mass concrete padstones locations and sizes.
 - End of beams to existing walls are to be supported via in-situ concrete padstones
 - min. 4M20 8.8, 10thk full depth end plate connections
- Refer to notes drawing GN-001 and specification for further specification

GROUND FLOOR CONCRETE SLAB KEY:

150mm thick normal weight concrete C30 onto metal deck ComFlor 60 or similar approved, 1.2mm gauge. Mesh A193, 25mm top cover. UNO.

Metal deck to be shot fired and installed in accordance with manufacturer's requirements and details.

Decking to be propped during construction

Robustness: provide continuous A252 mesh over the beam or H12 @ 0.6m crs thru the beam web (full tension anchorage of 480mm).

Fire protection by others (provide H8's @300mm c/c 30mm cover bottom/side for 30 min fire resistance).

PADSTONES SCHEDULE

PS1:	150(d)x100(w)x330(l)
PS2:	215(d)x100(w)x450(l)
PS3:	300(d)x100(w)x950(l) reinforced concrete with H12 at 200crs

C20/25 concrete typical

Refer to plans for further notes and other padstones

PC - 150wide x 450long RC pad extended to concrete u/pin. Detail DE-300

We allowed for allowable bearing pressure on brickwall of swl=0.43N/mm² [5N in mortar (iii)]

Bear on solid and sound masonry wall. Consult SE if flues are found, prestressed concrete padstone/lintels may be required.

* End of the beam to be strap down to solid masonry with 2x2.5x30x1.5 L-strap (galv) fixed to steel and masonry with min 2x7x4 dia screws

TEMPORARY WORKS TO CONTRACTORS DESIGN AND DETAILS

WATERPROOFING AND FINISHES BY OTHERS

- NOTES:**
- If in doubt please ask.
 - Do not scale this drawing.
 - This drawing is to be read in conjunction with all Engineer's, Architect's or other relevant drawings and specifications. Any discrepancy is to be reported to the engineer immediately.
 - The contractor must ensure and will be held responsible for the overall stability of the building/structure/ excavation at all stages of the work.
 - All existing details shown are based on limited opening up. Assumptions have been made regarding existing construction. Framing and spans of existing slab joist and walls to be confirmed on site.
 - To be Read with General Notes GN-001

GENERAL KEY :

[Hatched pattern]	New masonry walls
[Dotted pattern]	Existing concrete
[Dashed line]	Demolition
[Dotted line]	Structural walls under
[Cross-hatched pattern]	Blockwork wall
[Vertical lines]	Load-bearing stud wall
[Diagonal lines]	New reinforced concrete
[Diagonal lines (S)]	(S) 20N Bricks in mortar (iii) infill toothed in to existing and dry packed. thickness to match existing
[White box]	New timber stud partitions unless noted otherwise, double up joists / provide solid nogginns under
[Blue arrow]	EX - Span of existing floor
[Red arrow]	Span of new timber/ concrete see notes
[Green line]	New steel beams
[Blue line]	New timber beams
[Dashed line]	LRS1 Restraint straps as per spec and details
[Circle]	CU I Column under

B3	18.12.18	Issued for Building Control Approval	KK	AP
B2	03.12.18	Issued for Building Control Approval	KK	AP
B1	17.11.17	Issued for Building Control Approval	KK	AP
P1	16.06.17	Issued for Comment	VH	AP

BUILDING CONTROL

AXIOM STRUCTURES

+44 (0)20 3637 2751
 office@axiom-structures.co.uk

Project:
85 CAMDEN MEWS
LONDON NW1

Drawing title:
STRUCTURAL PLANS

Date:	06/2017	Scale at A1:	as per plan
Drawn by:	VH	Designed by:	KK
Checked by:	AP	Checked by:	AP

Drawing No: **15005/GA/100** Revision: **B3**