

Prepared by.	Checked by	Rev. No.	Date	Rev. No.	Date	Reference
PS	PS	0.0	29/08/2024	2.0	05/09/2024	

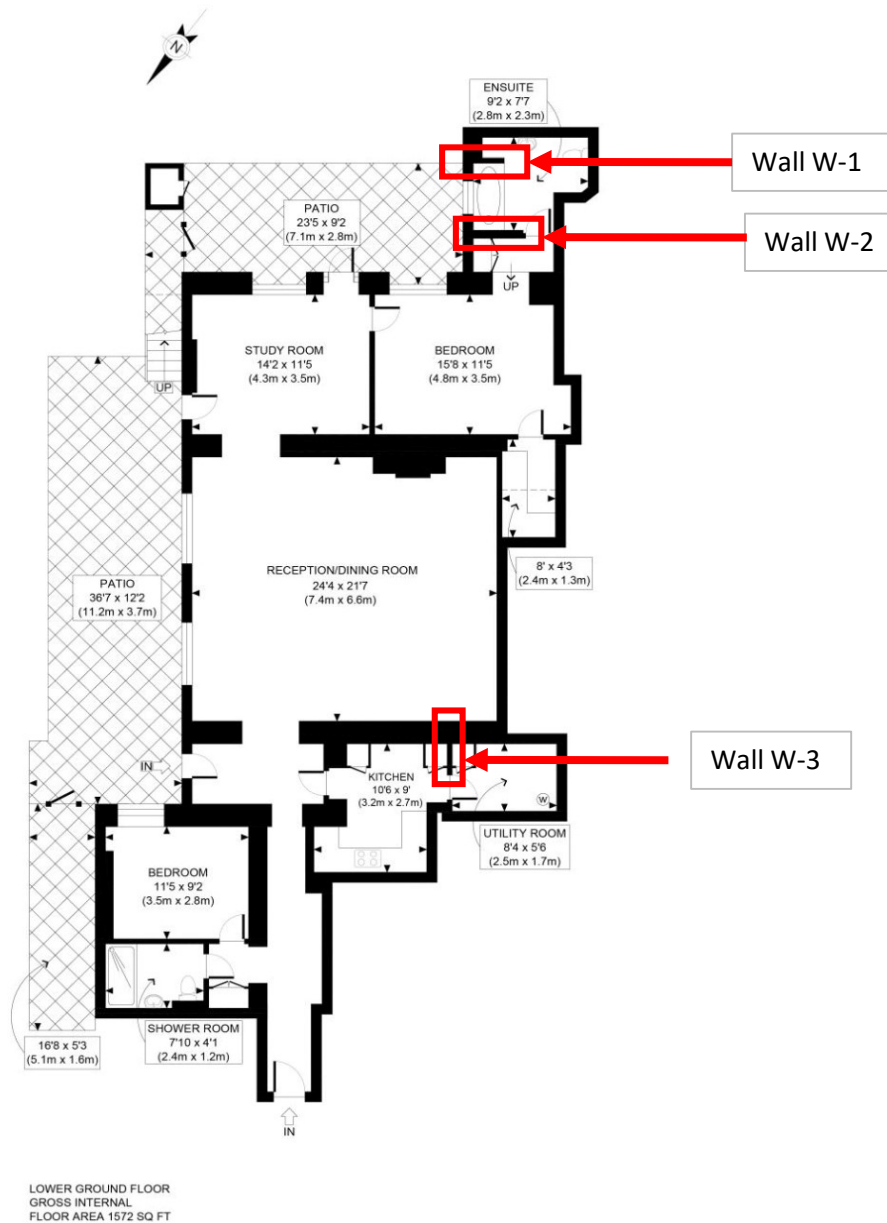
40A Prince of Wales Road, NW53EL, Basement Flat

Site Visit dated 10th Aug. 2024 - Basement Flat - 40A Prince of Wales Road, NW53EL

Site visit was carried out at basement flat no 40A Prince of Wales road for visual inspection of internal wall removal to increase width of opening within toilet area.

Note - Structural drawing is not available for existing condition and type of roof construction. It is assumed that toilet roof is timber joist floor and lintel over existing opening.

Client require to increase width of existing floor optioning to allow more free space within toilet.



Existing Floor Plan of basement flat showing wall to be removed

Notes :

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Site Visit dated 10th Aug. 2024 - Basement Flat - 40A Prince of Wales Road, NW53EL

Site visit was carried out with Structural and premises engineer to inspect all walls to be removed.

Wall W-1

It appears that wall is made of timber frame construction and assumed that not supporting any loading above the floor and can be removed without affecting structural integrity.



Wall W-3

It appears that wall is made of timber frame construction and assumed that not supporting any loading above the floor and can be removed without affecting structural integrity.


Wall between kitchen and utility room



Note:

Site survey to be carried out for ceiling joist direction to make sure no support on wall W-3. Reinstatement to be done following removal of partition wall W-3.

Notes :

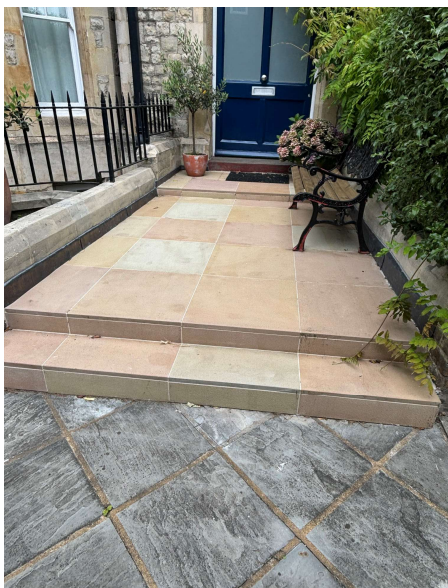
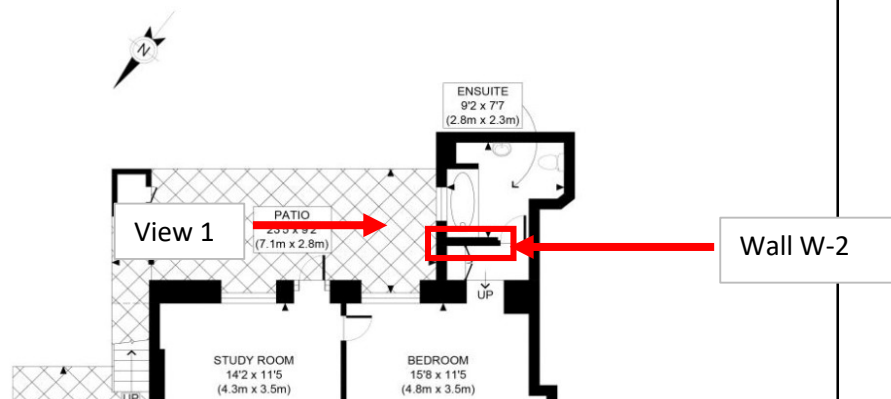
SMSL Consulting Structural Engineers		Calculation Sheet		Sheet No : 03		
Prepared by. PS	Checked by PS	Rev. No. 0.0	Date 29/08/2024	Rev. No. 1.0	Date 05/09/2024	Reference
<u>40A Prince of Wales Road, NW53EL, Basement Flat</u>						
<p>Wall W-2</p> <p>It appears that wall is made of masonry construction and considered as load bearing wall supporting roof above.</p> 						
Notes :						

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Wall W-2 (conti.)

There is entrance area above the existing toilet and also small step within entrance area. This also reflects in toilet ceiling which has similar step. construction of roof above the toilet which forms entrance floor area of flat above is not known. Detail intrusive survey is required from underside of toilet ceiling to establish roof construction. It may be concrete slab or timber joist construction. Only part wall to be removed to increase existing door opening and minimum 150mm to be kept at external wall side to provide support bearing.



Top view of toilet roof form entrance of flat above.



External face of Existing toilet View 1

Notes :

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Wall W-2 (conti.) Existing door opening is approx. 830mm and rest of wall is 1110mm
Therefore new opening is $830+1110-150=1790\text{mm}$
Information of existing lintel is not known. Additional survey required on site to find lintel information.

Widening of existing opening leaving 150mm from external side wall.

Keep 150mm wall for bearing

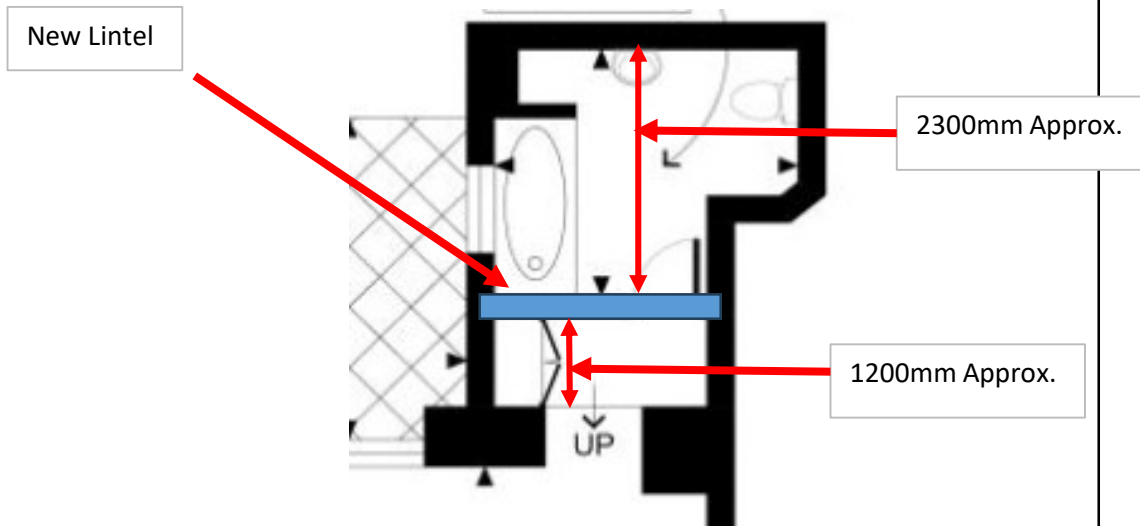
New opening to be maxi. 1790mm



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Wall W-2 (conti.) Design of new lintel above new wide opening
Overall wall thickness is 300mm



DL=	3.60 kN/m ²	150mm concrete slab assumed
LL=	5.00 kN/m ²	
Finishes=	1.00 kN/m ²	Assumed

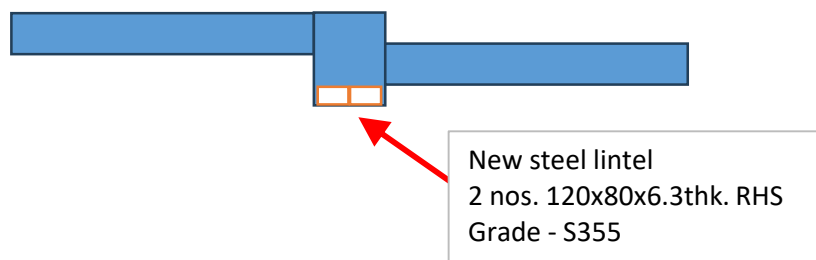
Loading on new lintel beam

DL=	6.30 kN/m
LL=	8.75 kN/m
Finishes=	1.75 kN/m

Refer to Tedds analysis and design output pages.

Use 2 nos. RHS 120x80x6.3thk. Sections with 150mm bearing on both sides of lintel beams.

Provide minimum 1hr fire boards to all sides of steel lintel beams.



<h1>SMSL</h1> <p>Consulting Structural Engineers</p>		<h2>Calculation Sheet</h2>			<p>Sheet No : 07</p>	
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PS	PS	0.0	29/08/2024			
<p><u>40A Prince of Wales Road, NW53EL, Basement Flat</u></p> <p>Associated Risks, Assumptions and Notes</p> <ol style="list-style-type: none"> Top of existing toilet roof is forming entrance area of flat above. Existing lintel to be varified on site with necessary intrusive survey from underside of toilet. Thickness of roof make up to be varified on site. Existing services to be diverted as necessary. Flat block managment team to be consulted and agreed to proposed new opening before start of any work. Party wall agreement to be in place as necessary before start of any work. Existing roof to be temporary supported from under side to keep above flat entrance in service. Contractor to carry out CAT scan to identify any services before start of any works. Contractor to prepare safe method of works statement and stage of construction and agree with flat block management before start of works. 						
<p>Notes :</p>						