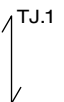


date: 12th April 2024
job no: 1920
project: M&W Manchester

- Notes:**
- 1. Extent of existing low level slab to be retained.
 - 2. Existing downstand beams to be retained. Lower ceiling height in this room.
 - 3. Existing load bearing internal masonry wall to be retained.
 - 4. Existing masonry wall to be demolished. Exposed fabric to be made good. Further investigations required to confirm load path from existing circular column above.
 - 5. Existing masonry wall to be demolished. Exposed fabric to be made good.
 - 6. Existing low level slab to be broken out (extent shown in pink). Based upon slab likely having been installed for bank security, allowances to be made for slab being heavily reinforced.
 - 7. Allowance to be made for a new column in this location. Further investigations required to confirm if an existing column is located within this wall.
 - 8. Span direction of new timber joists between new steel beams. Refer to the key for further details.
 - 9. New full depth timber wall plate to match adjacent joists bolted to face of existing wall with M12 grade 8.8 bolts set in Hilti HIT-HY70 resin at 400 c/c with min. 80mm penetration. Incoming timber joists to be screwed to the timber wall plate through joist hanger connections. Refer to sketch SK004 for further details.
 - 10. New steel beams, installed at a higher level than the existing downstand beams. Beams to be positioned below existing high level structure. New steel beams are shown on the same line as the existing downstand beams. Refer to sketch SK004 for further details.
 - 11. New steel column, concealed within the centre of the new bar, to support new steelwork over. Exposed fabric to be made good.
 - 12. New minimum 1000 square by 500 deep mass concrete pad foundation to support new steel column above. Refer to sketch SK005 for further details.
 - 13. New steel downstand beam to provide support to new steelwork. Downstand beam to replace existing load bearing masonry wall in this location.
 - 14. New steel column to support new steelwork over. Exposed fabric to be made good.
 - 15. New minimum 800 square by 600 deep mass concrete pad foundation to support new steel column above. Existing foundations to be broken out to allow for new pad foundation to be installed.
 - 16. Existing primary beams (Ex.B2) assumed to span between existing cast iron columns. New steelwork to be installed below these primary beams to prevent clashes.

Key

 = Indicates extent of raised slab, replacing the existing slab at the lower level.

 = Indicates span of new 50 wide by 150 deep C24 timber joists at 400 horizontal centres

Proposed Member Schedule	
Ref	Size
G.B1	203 x 203 UC (S355)
G.B2	254 x 254 UC (S355)
G.C1	114.3 CHS (S355H)
G.C2	139.7 CHS (S355H)

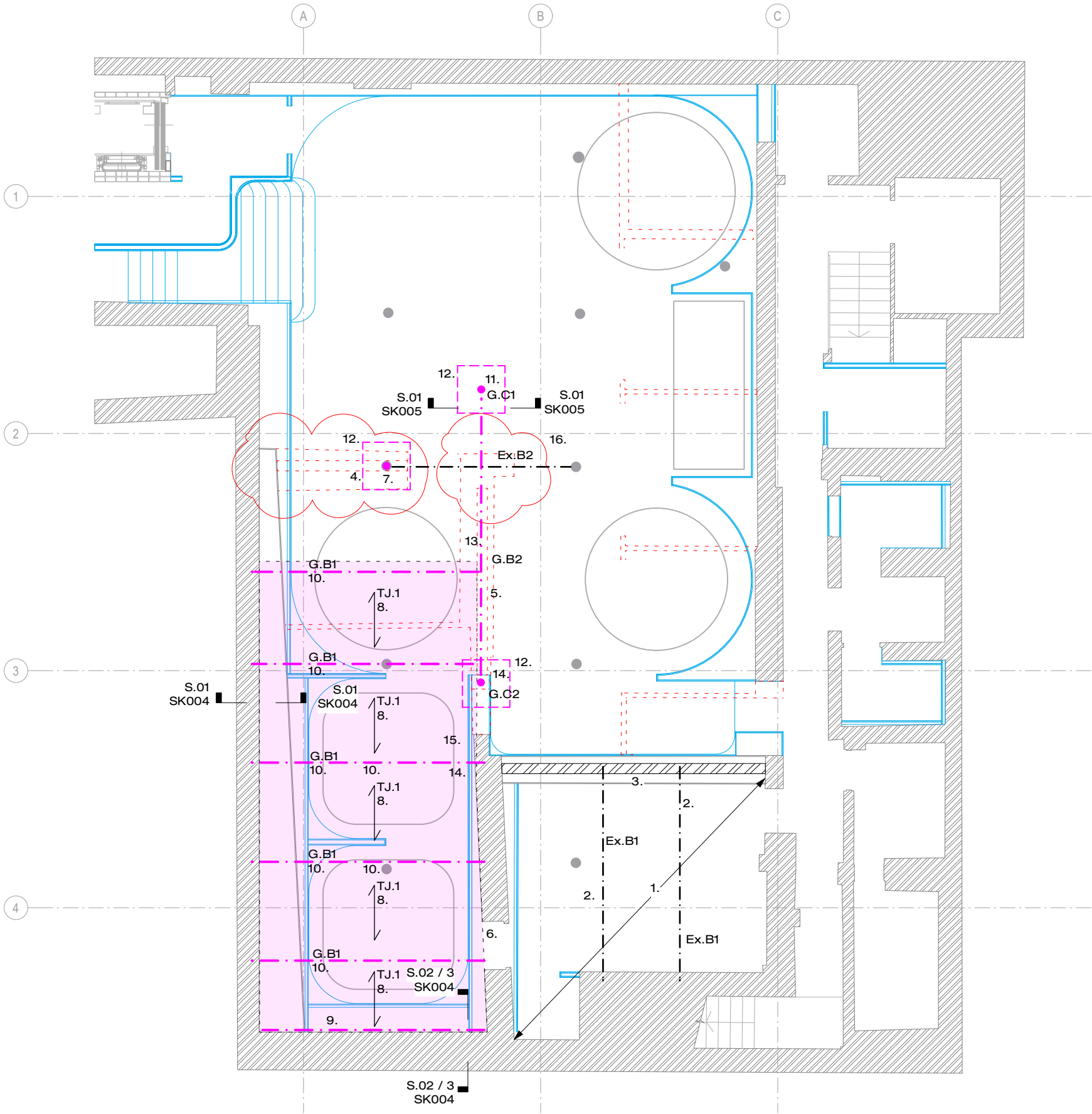
Levels (approximate)

G.B1: Existing basement FFL to underside of steel beam ≈ 3.225m

G.B2: Existing basement FFL to underside of steel beam ≈ 3.175m

engineer: AF
checked: PG

sheet no: 1920/SK002-B



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