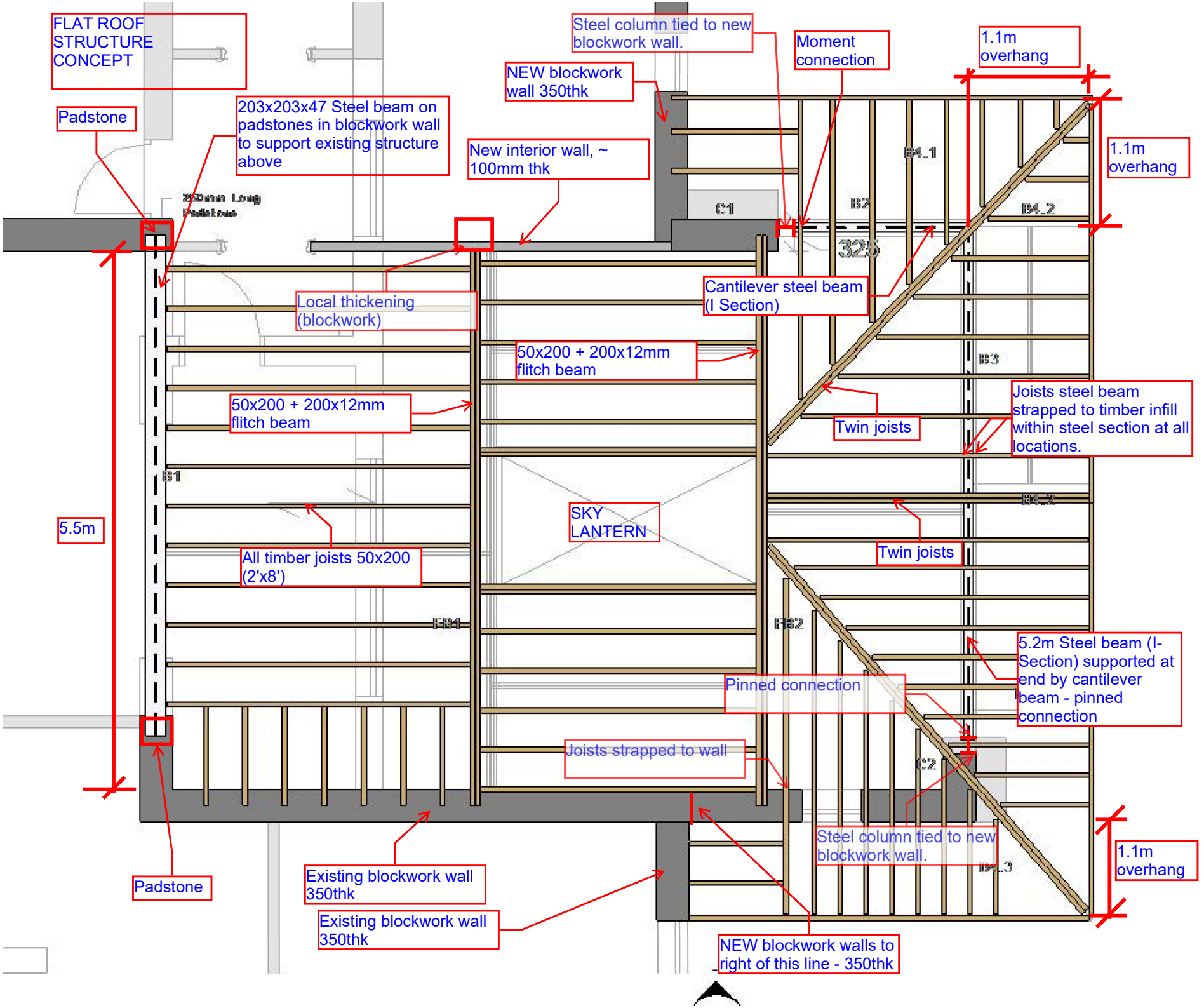
FLAT ROOF STRUCTURE CONCEPT
Padstone
203x203x47 Steel beam on padstones in blockwork wall to support existing structure above
NEW blockwork wall 350thk
Steel column tied to new blockwork wall.
Moment connection
1.1m overhang
New interior wall, ~ 100mm thk
1.1m overhang
Local thickening (blockwork)
Cantilever steel beam (I Section)
50x200 + 200x12mm flitch beam
Twin joists
Joists steel beam strapped to timber infill within steel section at all locations.
50x200 + 200x12mm flitch beam
5.5m
SKY LANTERN
All timber joists 50x200 (2'x8')
Twin joists
5.2m Steel beam (I-Section) supported at end by cantilever beam - pinned connection
Pinned connection
Joists strapped to wall
Steel column tied to new blockwork wall.
1.1m overhang
Padstone
Existing blockwork wall 350thk
Existing blockwork wall 350thk
NEW blockwork walls to right of this line - 350thk