

Basement steel support implementation plan

Step 1
 Remove carpet from corridor in area marked 9
 Expose oak beam in corridor in area marked 9
 Support secondary oak beams 5 & 6 using acrow props in order to relieve primary beam from its loads.
 2 Acrow props for beam 5 and one for beam 6.
 Support primary beam in the corridor side (location 9) with one Acrow prop, as far as possible from the stud wall, so it won't be undermined from the excavation.
 Support primary beam with 2 strong boys close to the padstone location.
 Acrow props & strongboys to be on spreader arrangements.
 Either 100x100mm timbers with plywood on top as indicated, or on one steel spreader beam of equal length.


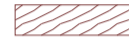




Step 2
 Carefully excavate under the existing 7 to create an opening for new concrete base plate.
 Form concrete base plate to newly agreed size (TBC) certainly no smaller than 650x850x300 (TBC by permanent works designer)
 Set pad stone into position 8.
 Allow new concrete base & padstone to properly cure.

Step 3
 Carefully remove post 1 & post 2.

Step 4
 Install new steel post (item 10) and beam into position.
 Fill gaps between primary oak beam and new steel beam with plywood wedges.
 Secure new steel beam to oak beam with coach bolts.

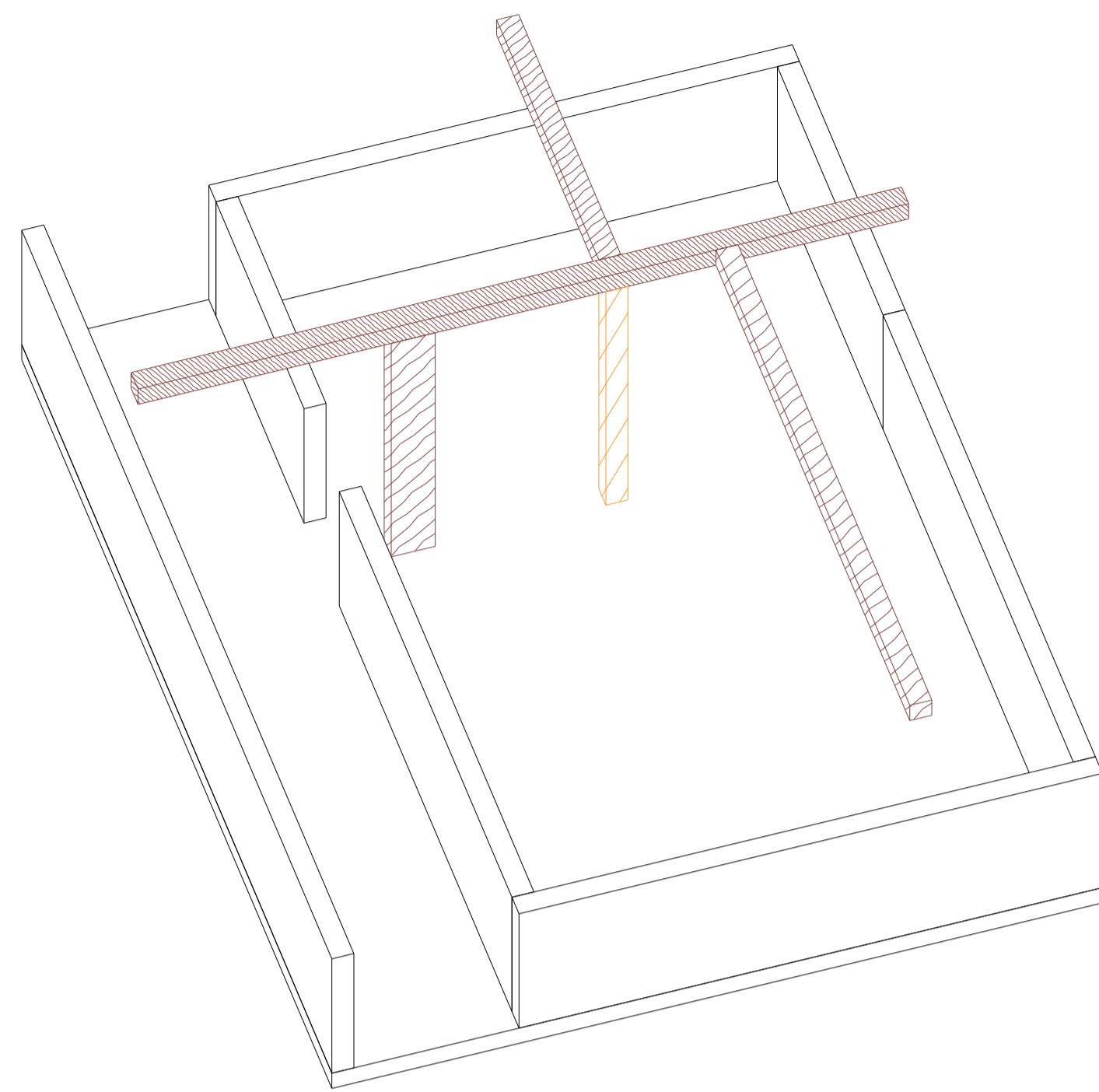
Step 5
 Carefully remove acros and strongboys.
 Fill any gaps created by strongboys with wood wedges.
 Complete any other coach bolt fixings to achieve 500mm centres.

Step 6
 Repair finishes.

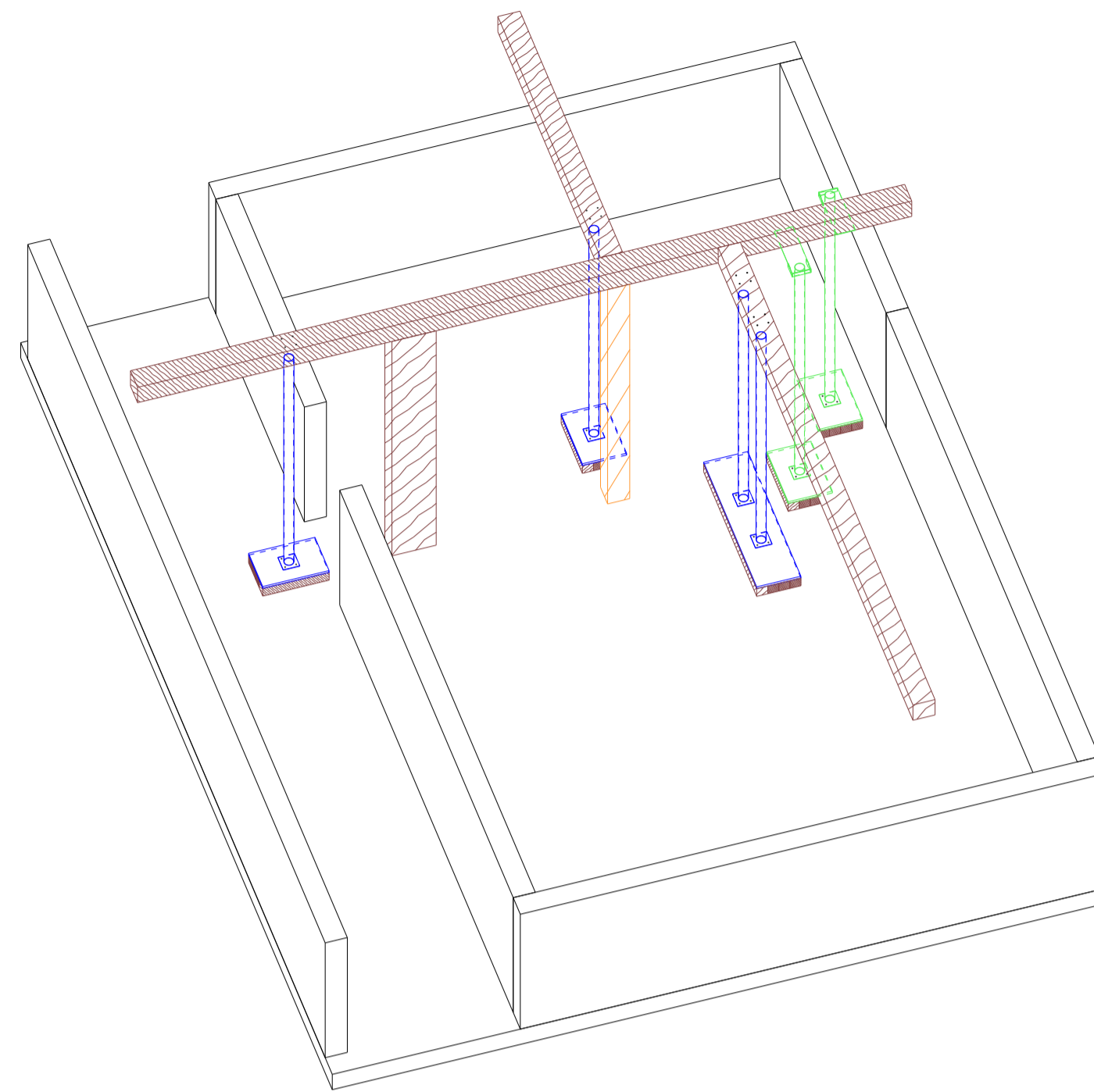
-  Existing steel column
-  Existing timber
-  Acrow props
-  Strongboys
-  New RC
-  New steelwork

Load on ground floor not to exceed 150kg/m2 during construction

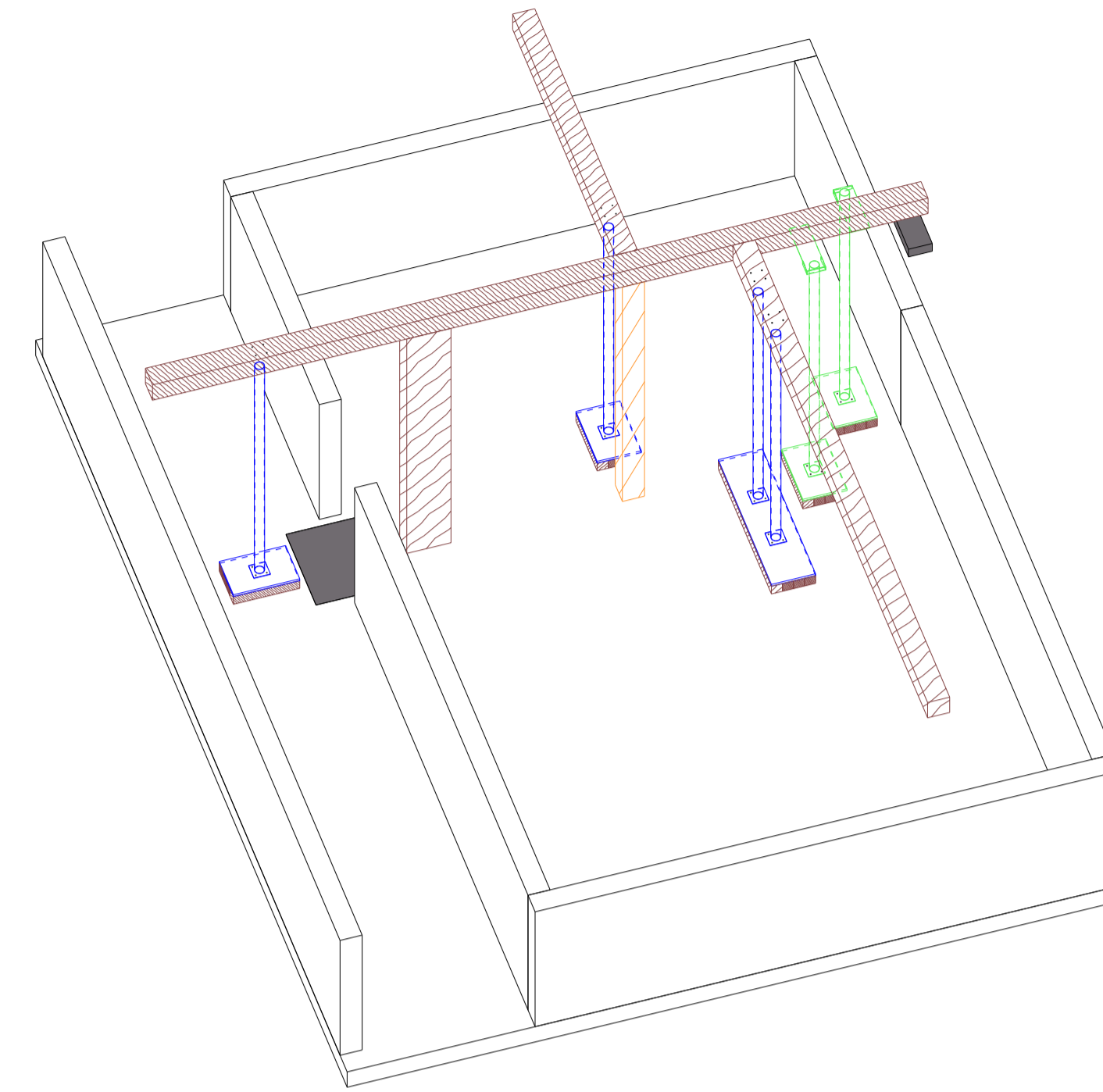
INITIAL CONDITION



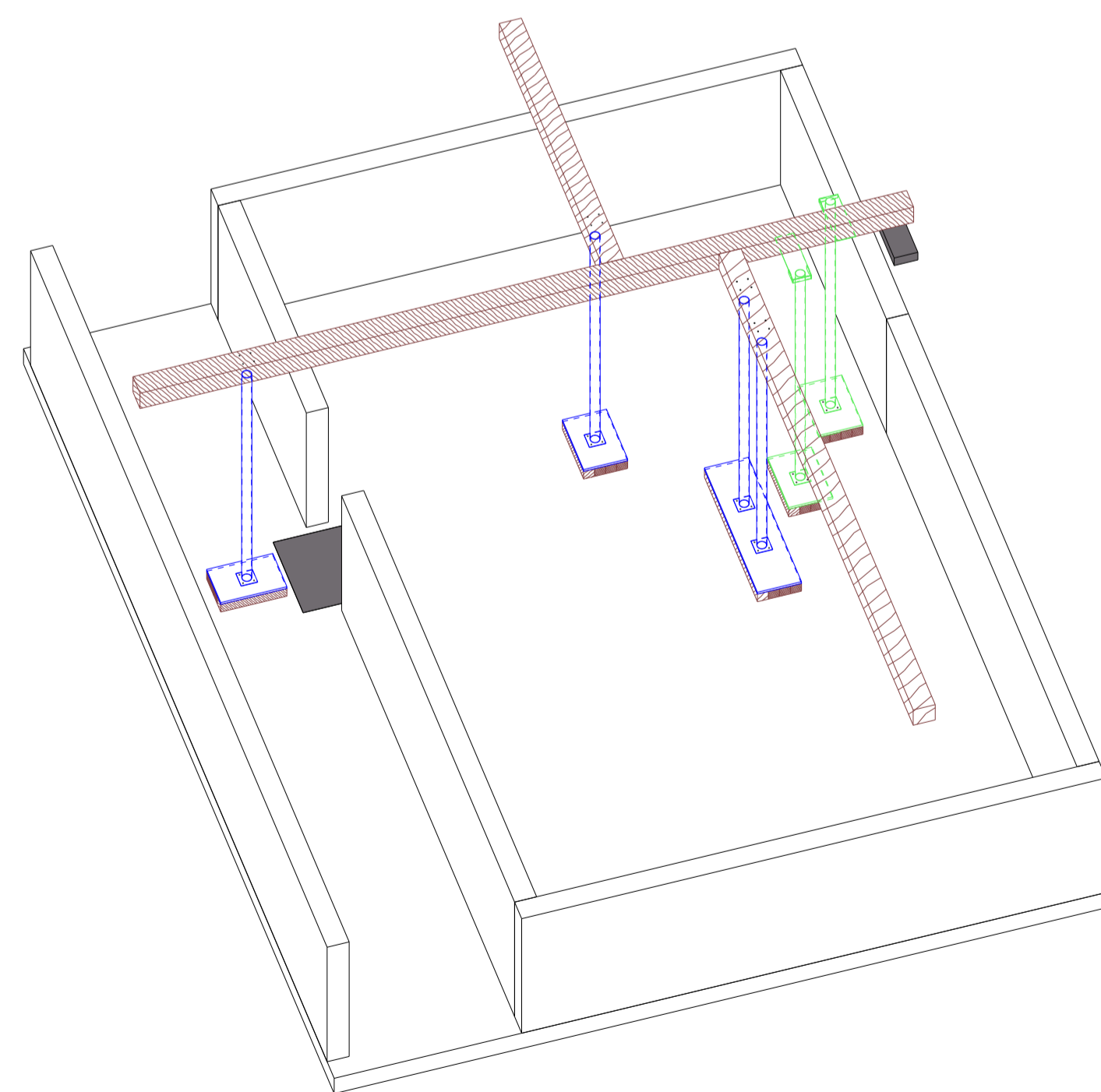
STEP 1



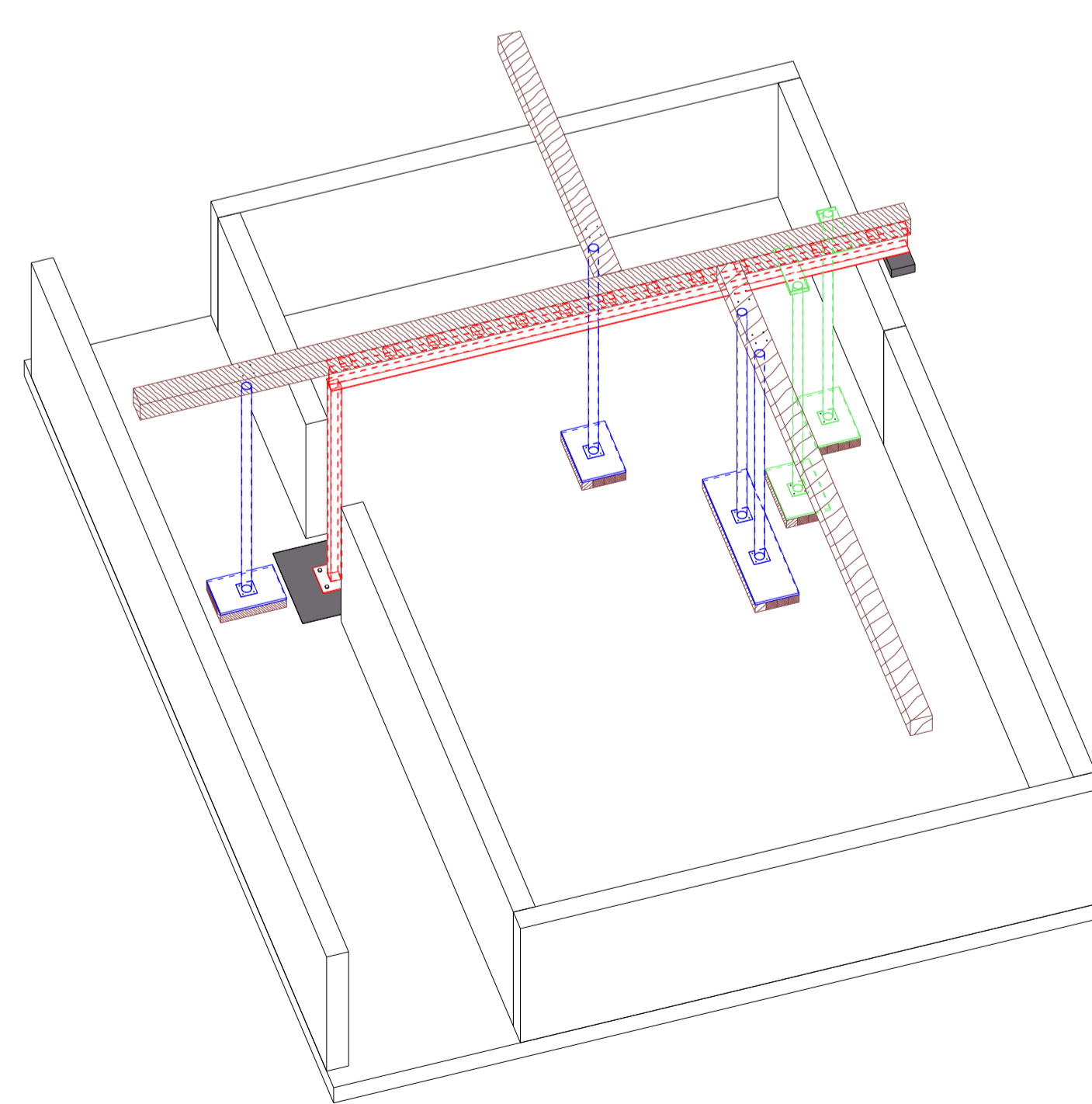
STEP 2



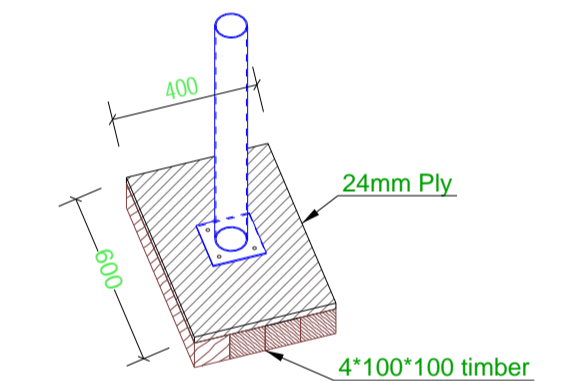
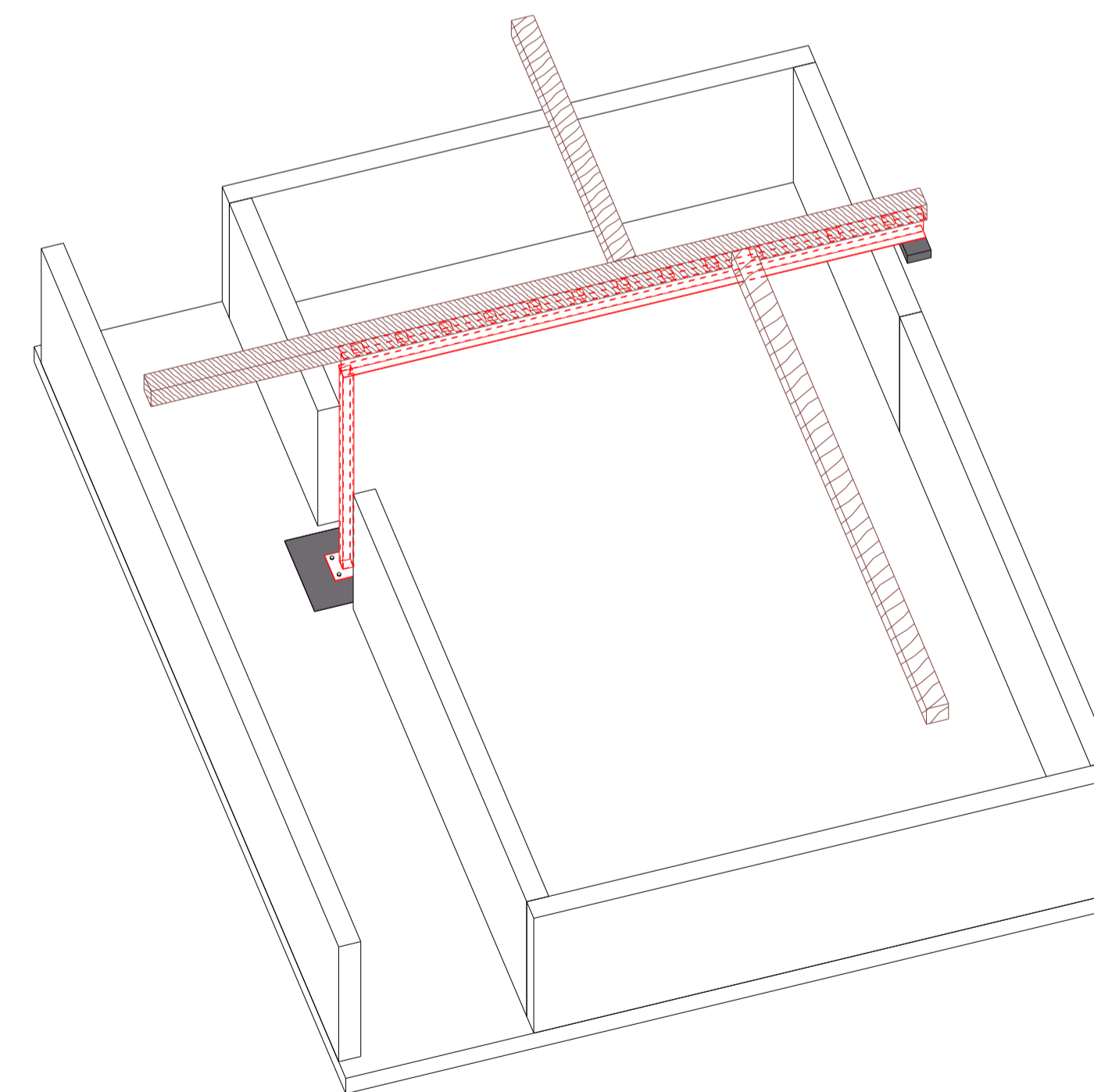
STEP 3



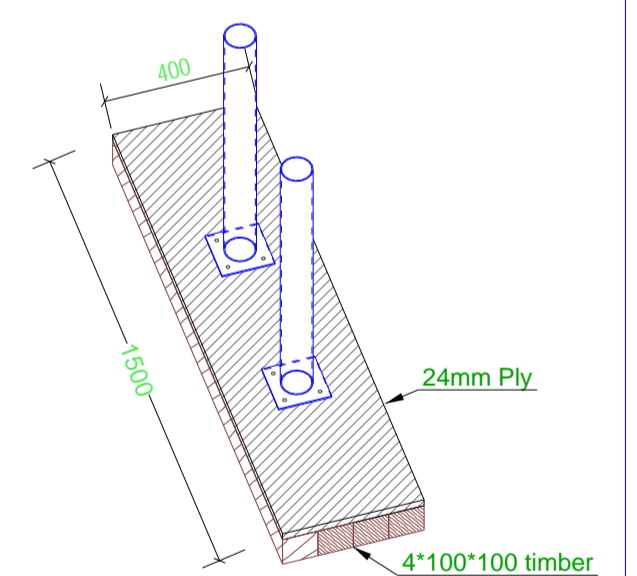
STEP 4



STEP 5



Acrow & Strongboy base detail



2 Acrows base detail

Drawn:	ES		
Checked:	GK		
Scale:	1:20 / 1:50		
Drawing Size:	A1		
Project:	29 Bedford Row		
Title:	Basement steel support implementation plan		
Project Reference:	Drawing Number:	Rev:	Rev.Date
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