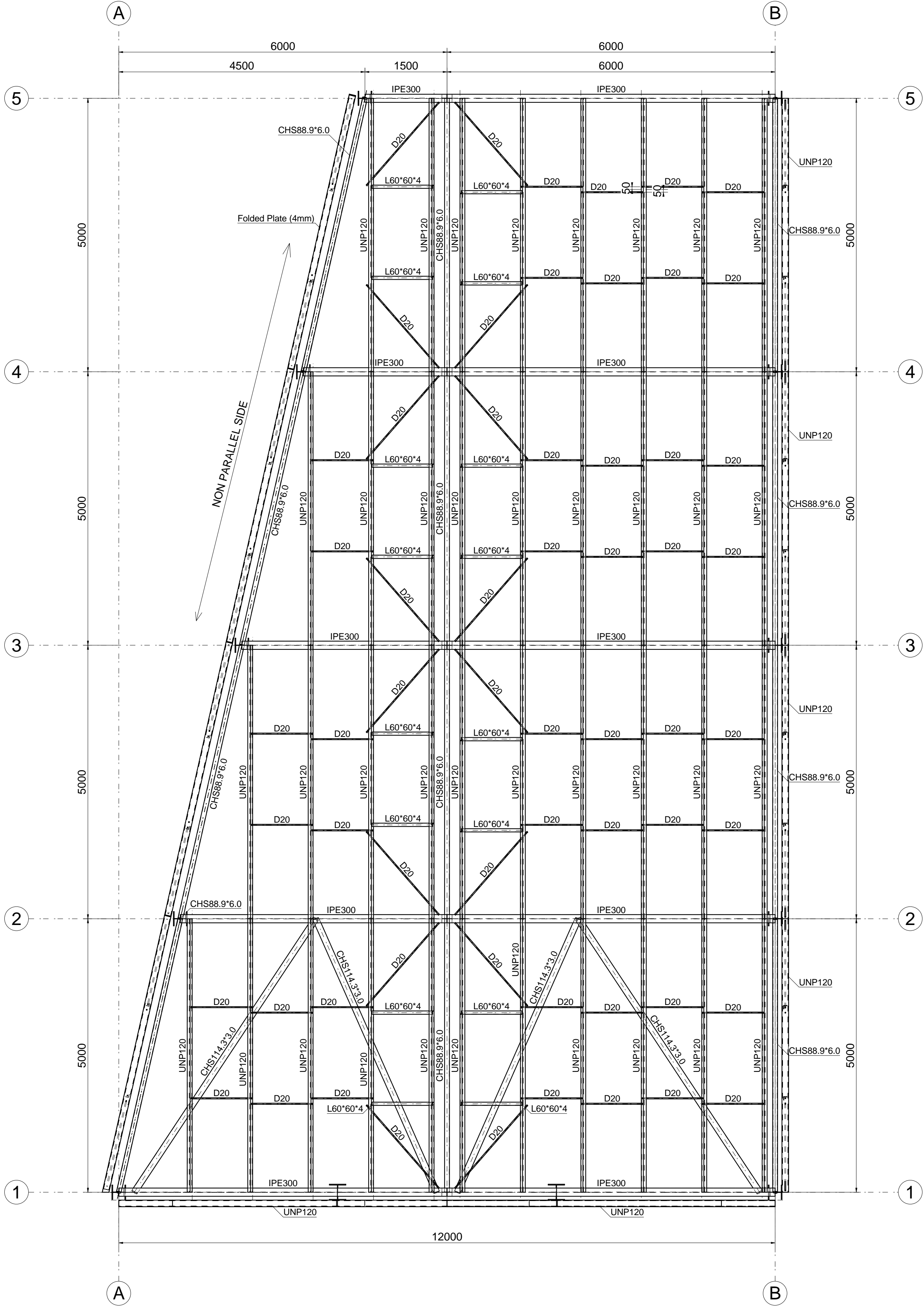
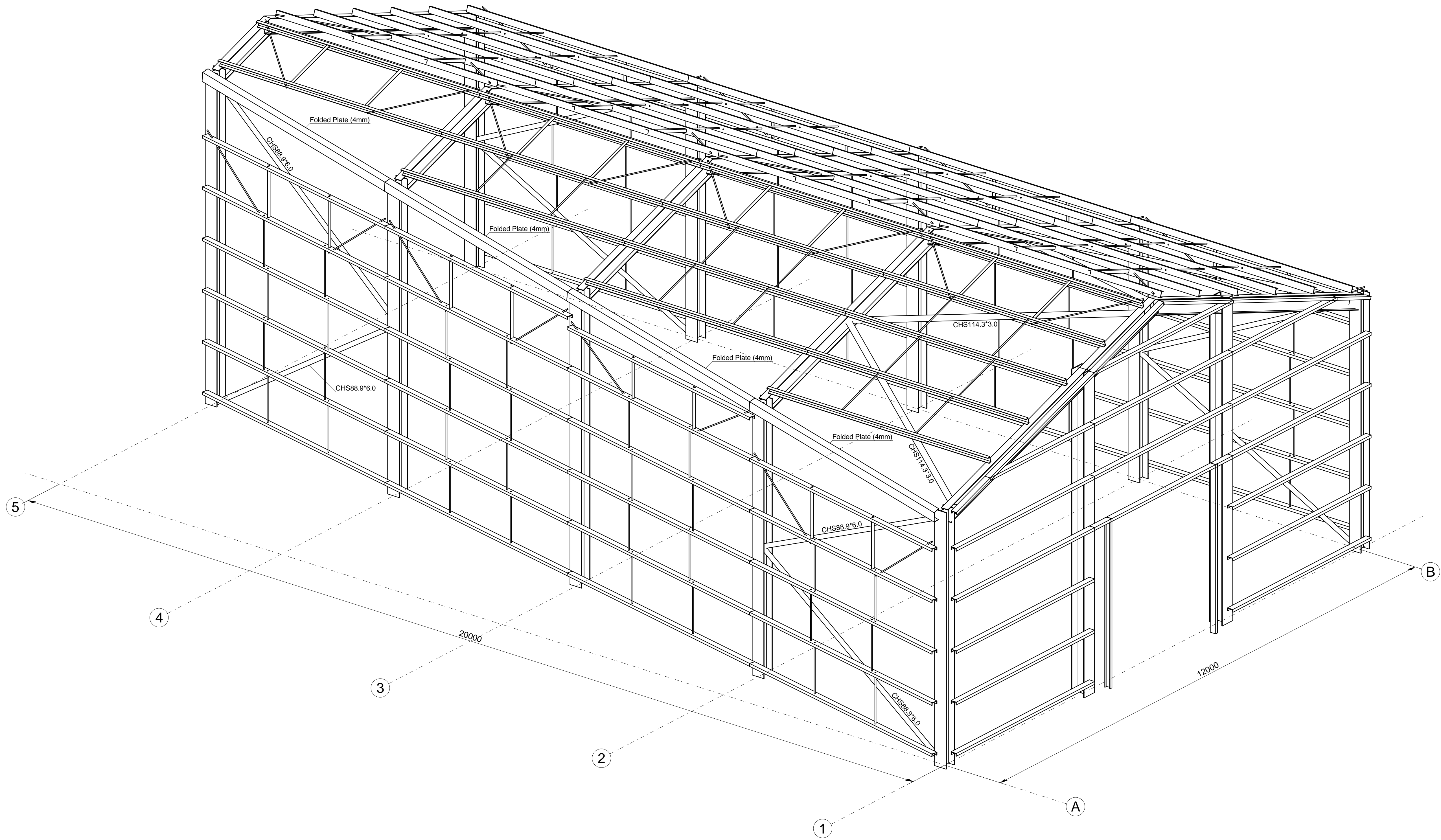


View on line 1



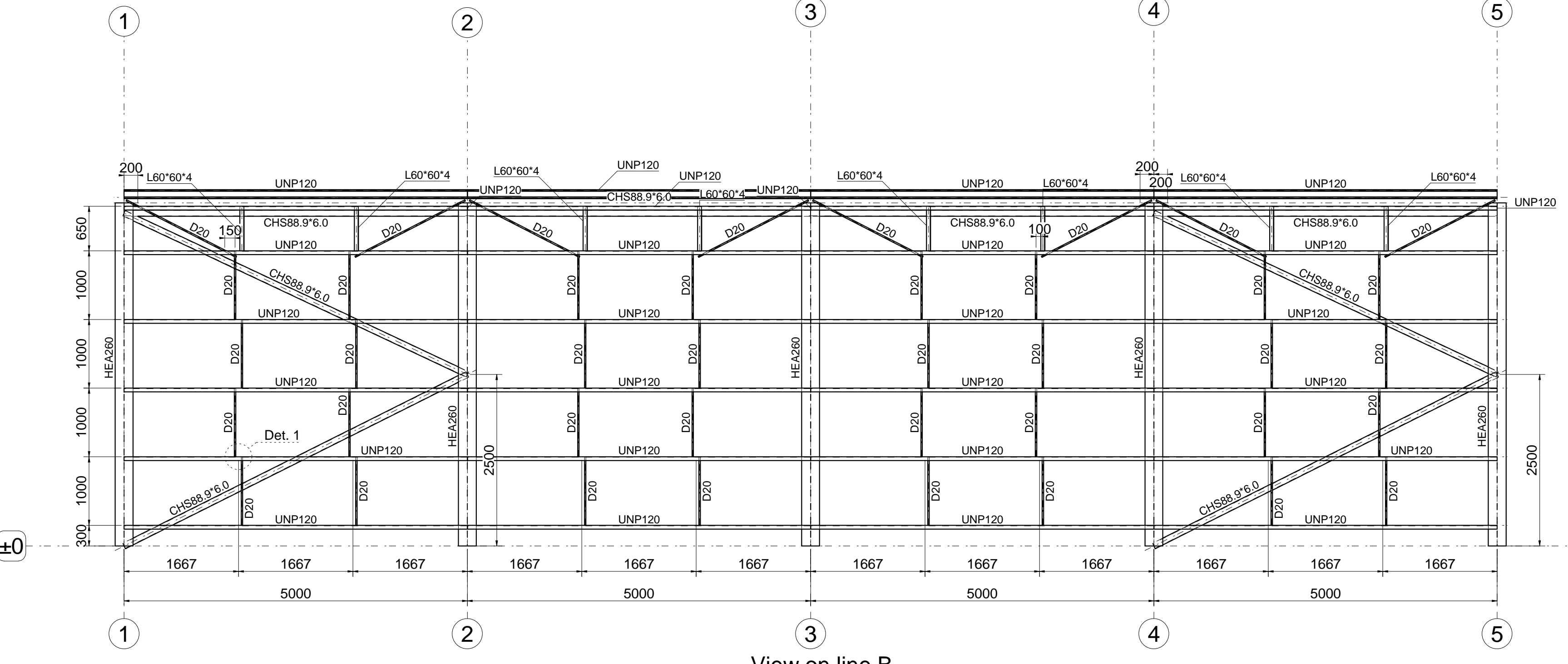
Plan View



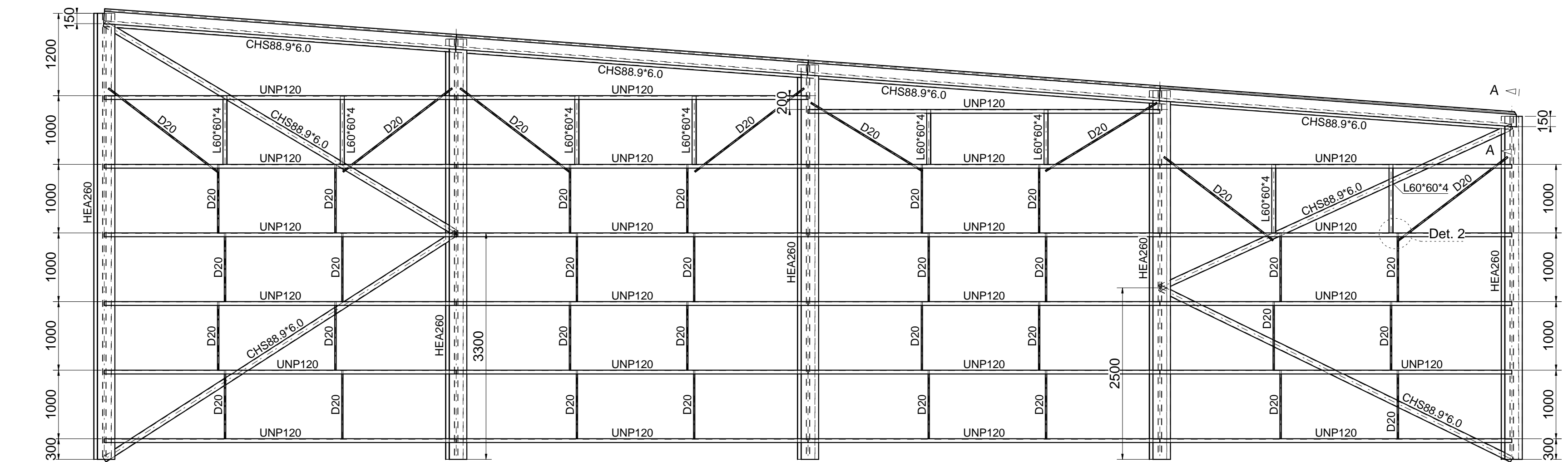
3D View

This is fairly standard portal frame. The only thing novel about it is that one side is not parallel to the other leading to geometric challenges.

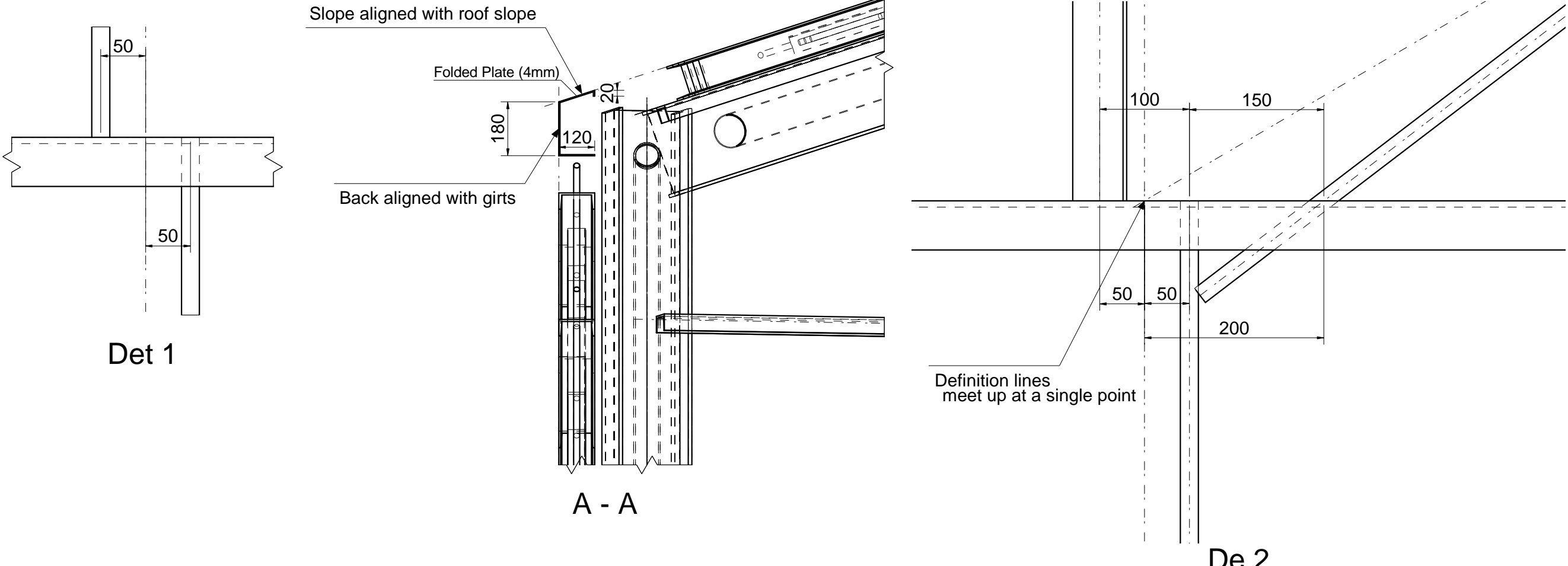
1. The roof and vertical bracing has been shifted at certain points as shown.
2. The Eaves beam is basically a folded plate with its top leg parallel to the roof plane.
3. All vertical sag rods have been shifted 50mm to the left and right as shown.
4. All inclined sag rods have been shifted as shown. Sag rod sections are D20.
5. All girt sections are UNP120
6. All Purlin profiles are UNP120
7. All main columns are HEA260 except for the wind columns which are HEA300
8. All Roof beams are IPE300
9. All materials are S235
10. Assume reasonable values for information not provided.
11. Once familiar with the software
12. it should not take you more than an hour and a half to model it.



View on line B



Non parallel side



Det 1

A - A

De 2