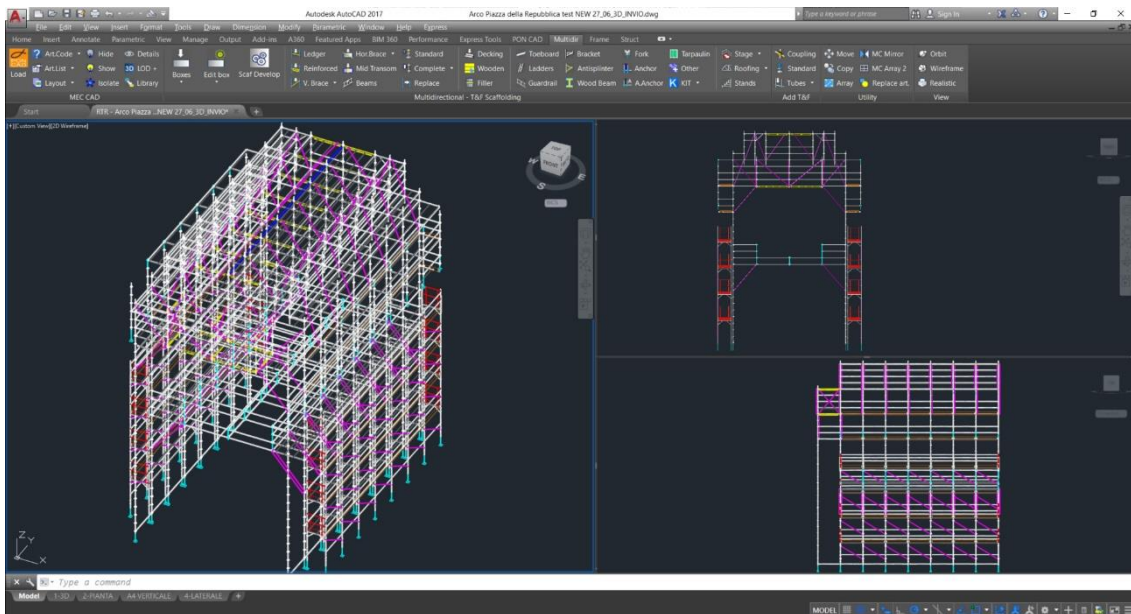




## Renovation of Strozzi Arch in Florence After 20 years, once again PON CAD

Our customers CMW Engineering have renovated the Arch Strozzi in Florence (Italy) once again. The first time was in 2002 with a project made by Pilosio SPA using [PON CAD](#)

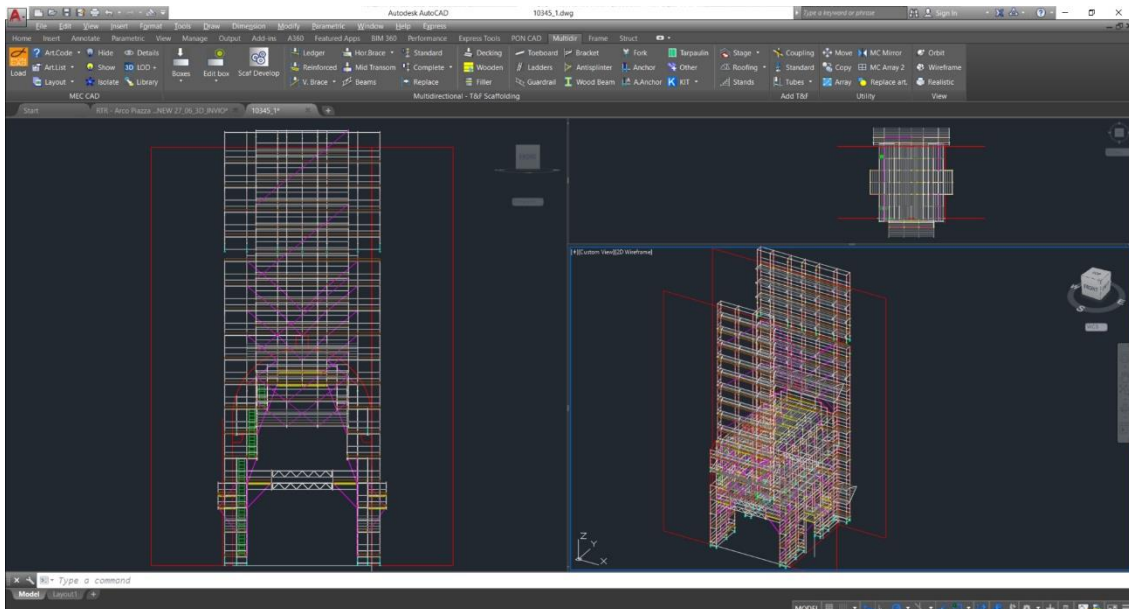


The scaffolding meant to renovate the masonry arch and the works mainly concern the painting of the intrados. The challenges of designing related the distance of the scaffolding from the arch, since the curvature had to be managed without getting too far from the wall and still allowing a safe passage of the personnel. During the designing activity, great attention was paid to the distance between the walking platform and the vault, which had to be between 1.70 and 2.20 metres because the 'caissons' of the arch dent up to 65 cm into the masonry.



*"Furthermore, the geometry of the structure was 'forced', the beam was designed using 250 and 180 cm modules, while the overhangs boulders were made with modules of 83 cm. This was made possible by the slight bending of the top truss which, although shorter than 1 cm per module ( $83 + 83 + 83 = 249$  instead of 250), was easily 'closed' by the operators." Eng, Calvelli.*

## Old renovation project of 2002



**CMW Engineering** operates mainly as a partner for consulting and implementation of projects, design, rental and sale of structures and scaffolding for every need. Civil and industrial buildings, maintenance of installations, stages and coverings for shows and events.