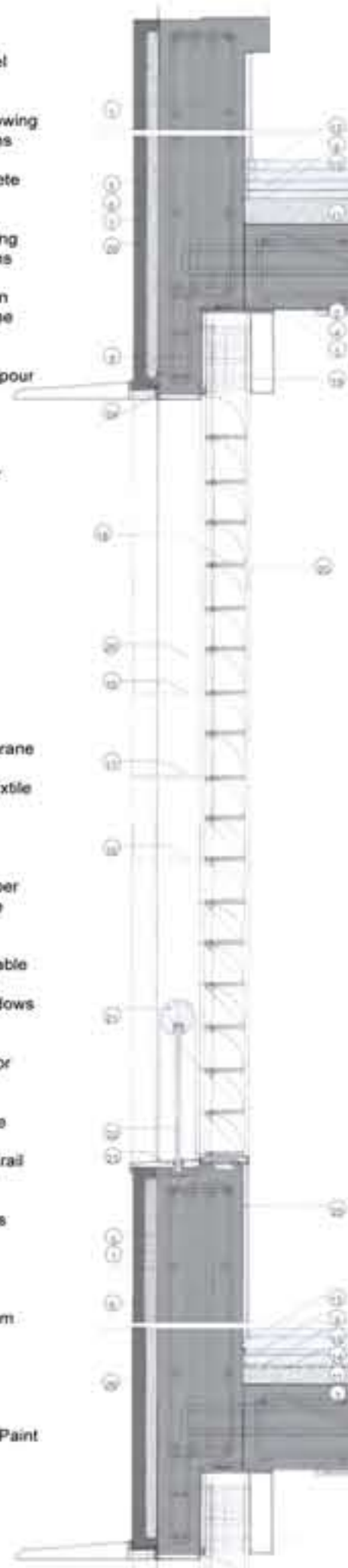
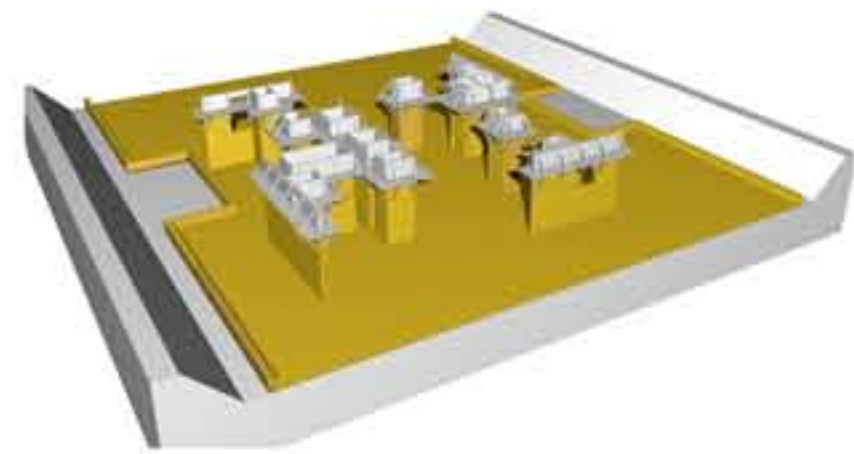


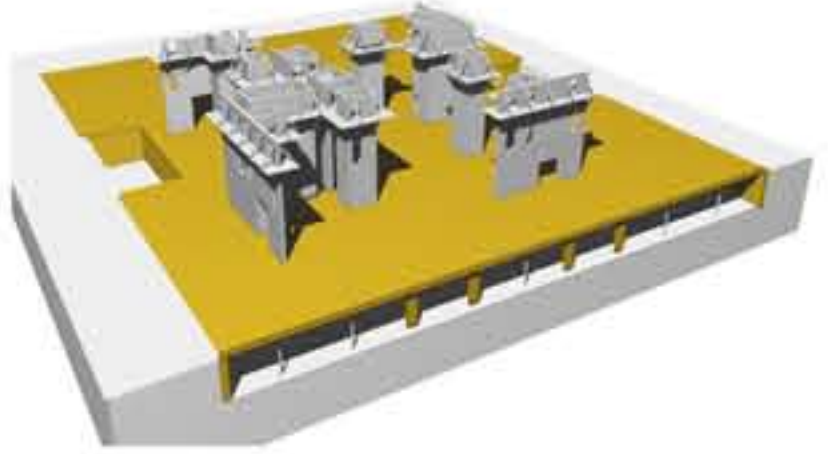
- 1-Precast Vierendeel Beam
- 2-"U" Steel Bar, following structural calculations
- 3-Reinforced Concrete Slab
- 4- Steel Bars following structural calculations
- 5-Thermal Insulation exterior surface of the Vierendeel
- 6-Aluminium Foil Vapour Barrier
- 7-Plaster Finishing
- 8-Lintel cover louver
- 9-Glazed Porcelain Ceramic Tile
- 10-Cement Mortar
- 11-Light Concrete
- 12-Wood base
- 13-Cement base
- 14-In Balcony PVC Impermeable membrane
- 15-Protection Geotextile Mat
- 16- Joint
- 17-Joint Between upper and lower part of the Precast Beam
- 18-Aluminium Operable Louvers for shadow control in every windows and balconies
- 19-Aluminium Box for louvers
- 20-Aluminium Frame
- 21-Aluminium guardrail circular section
- 22-5mm+5mm Glass guardrail
- 23-Metal Seal
- 24-300mm Aluminium Overhang weather protection
- 25-Cement Plaster
- 26-Solar Protection Paint



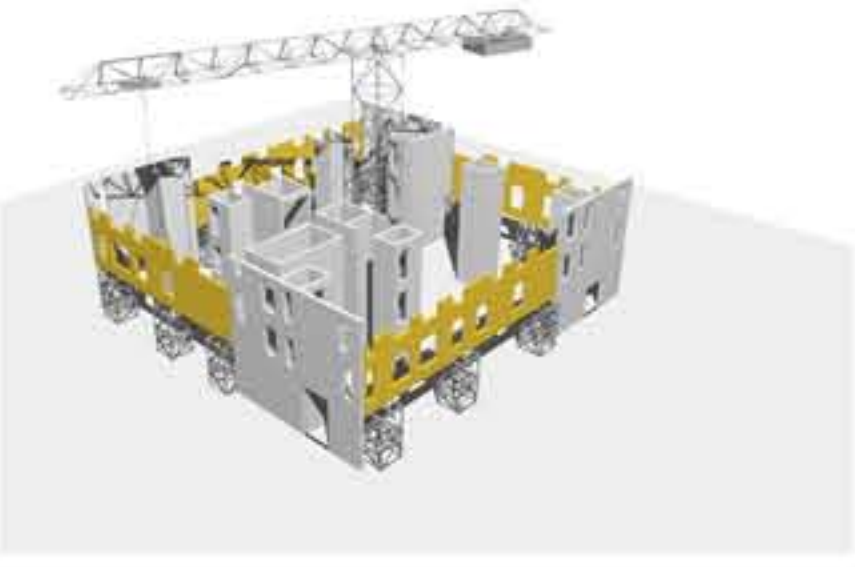
BUILDING ASSEMBLY SEQUENCE



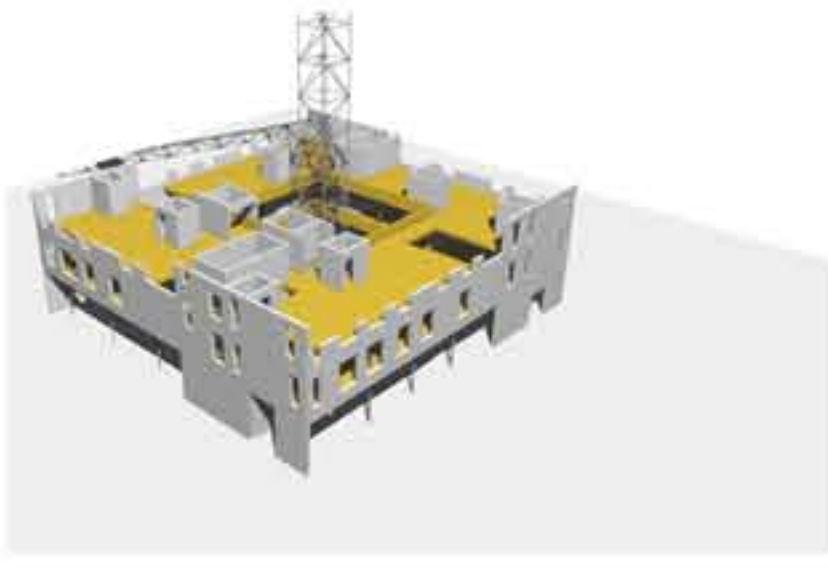
PHASE 1
EXCAVATIONS , FOUNDATIONS, REINFORCED CONCRETE SELF-RESISTANT WALLS WITH SLIDING FRAMEWORK



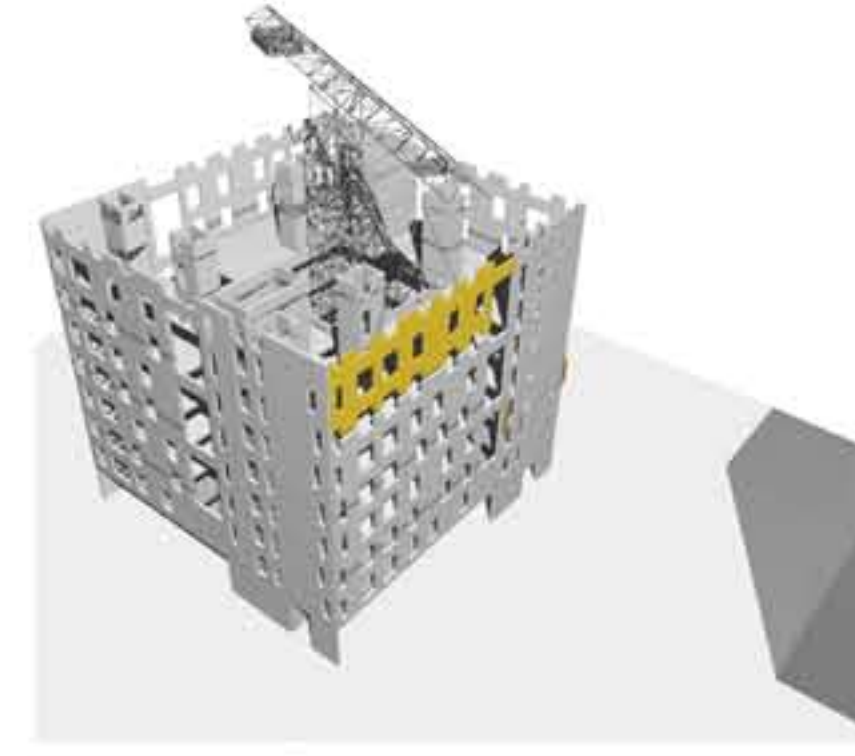
PHASE 2
REINFORCED CONCRETE SLABS, BEAMS AND COLUMNS AT PARKING LEVEL



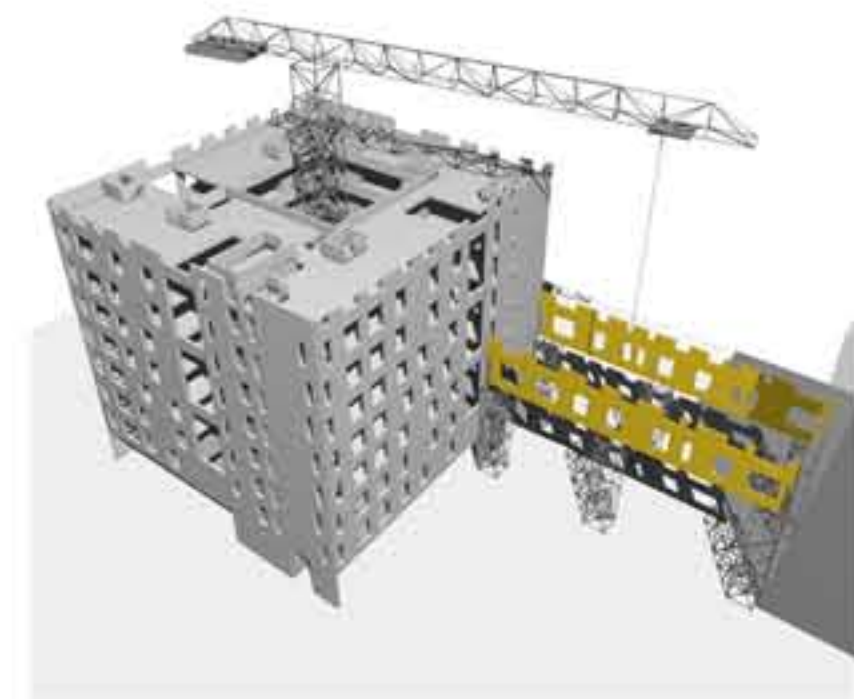
PHASE 3
ASSEMBLY OF PRECAST PANELS OF VIERENDEEL BEAMS



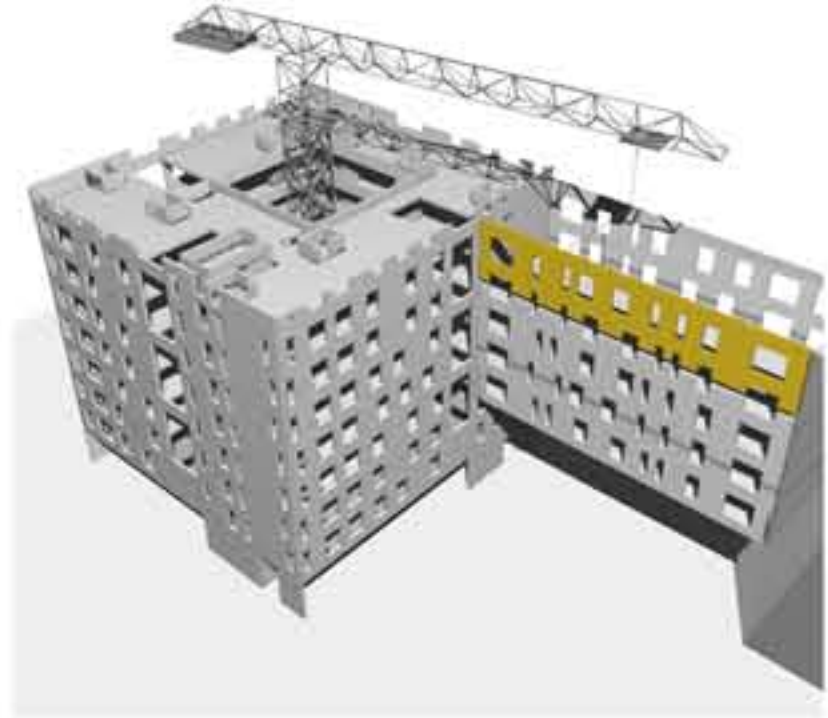
PHASE 4
FILLING OF REINFORCED CONCRETE SLABS AND BEAMS



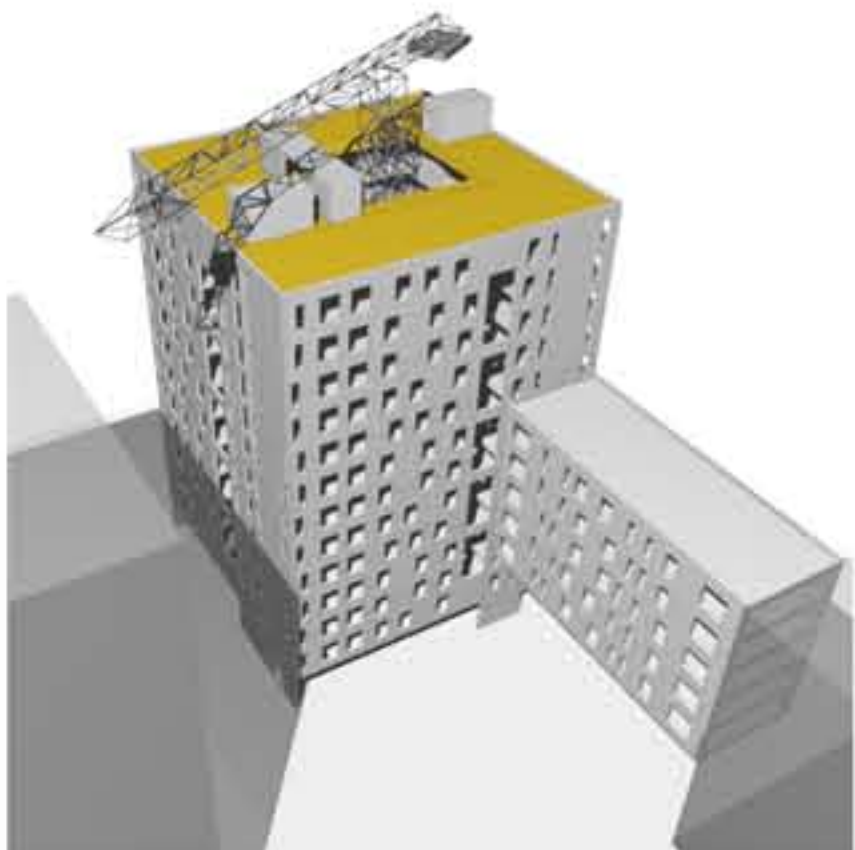
PHASE 5
TOWER COMPLETION AT LOWER BRIDGE LEVEL



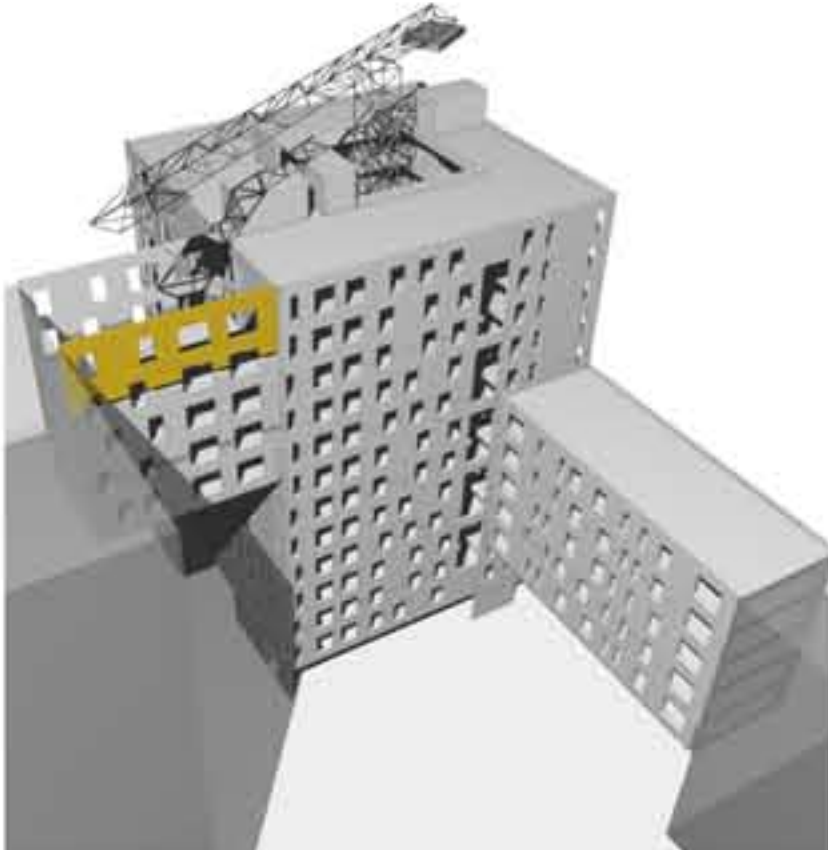
PHASE 6
ASSEMBLY OF PRECAST VIERENDEEL PANELS AT LOWER BRIDGE



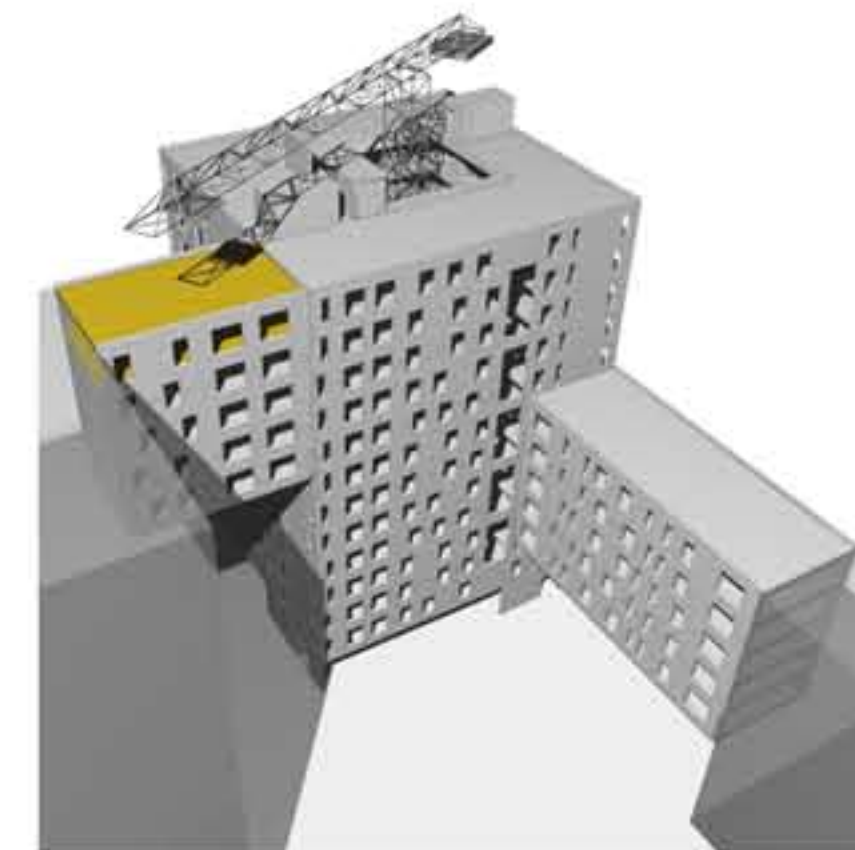
PHASE 7
FILLING OF SLABS AND ASSEMBLY OF PRECAST VIERENDEEL BEAM



PHASE 8
COMPLETION OF TOWER

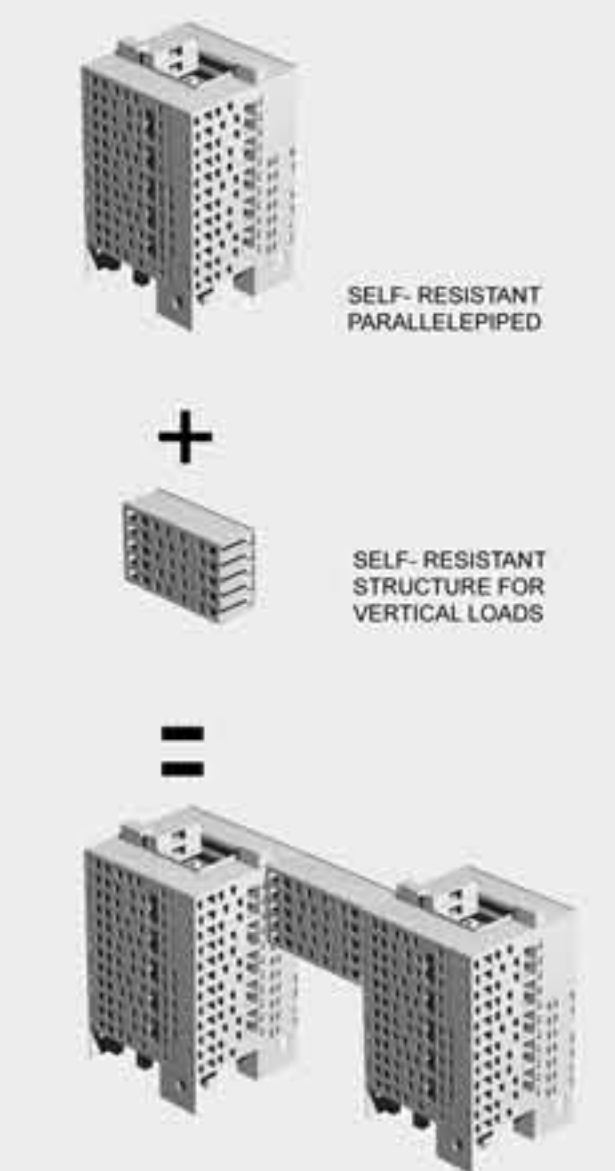


PHASE 9
COMPLETION OF UPPER BRIDGE

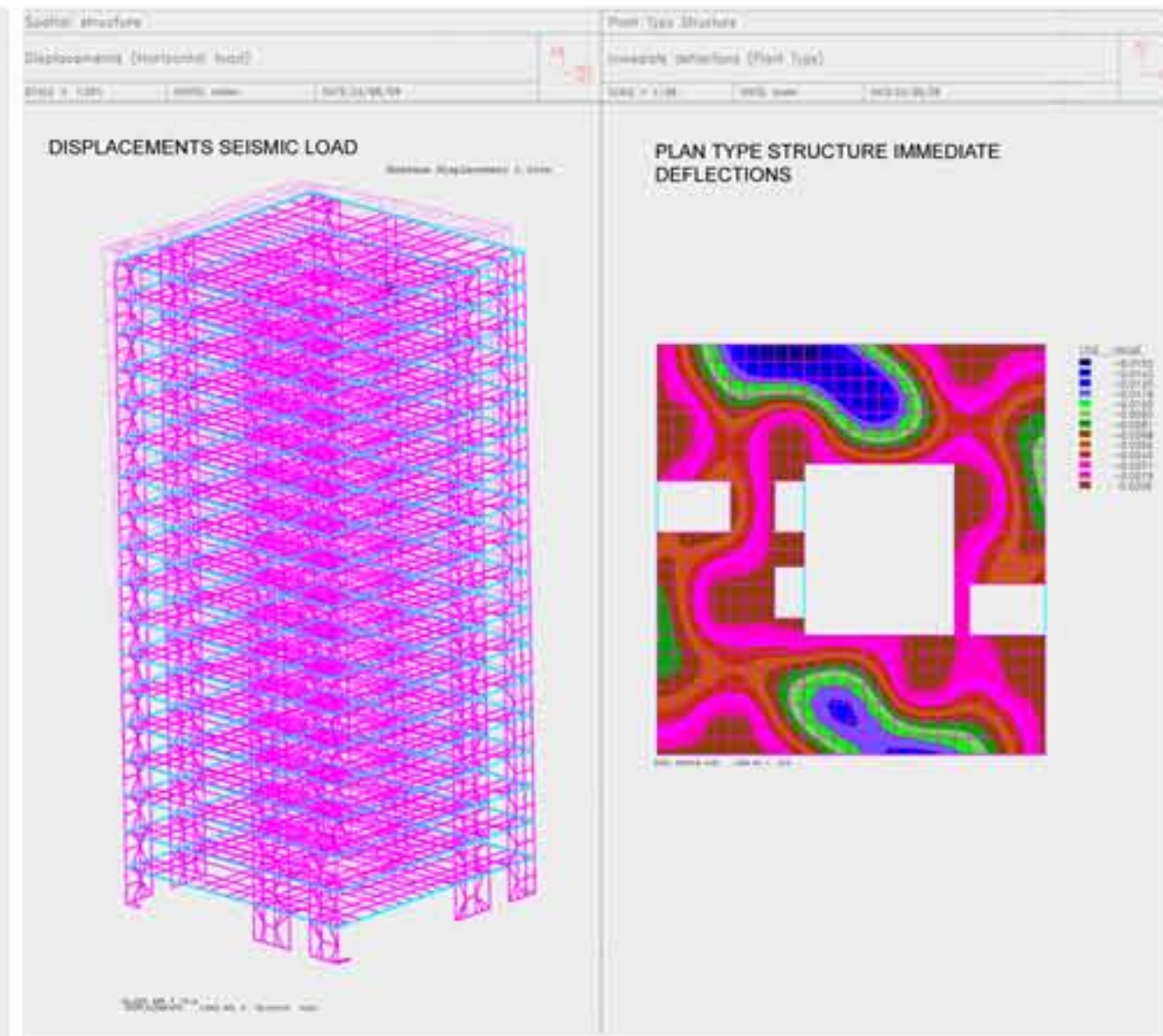


PHASE 10
FILLING OF SLABS AND BEAMS AT UPPER LEVELS

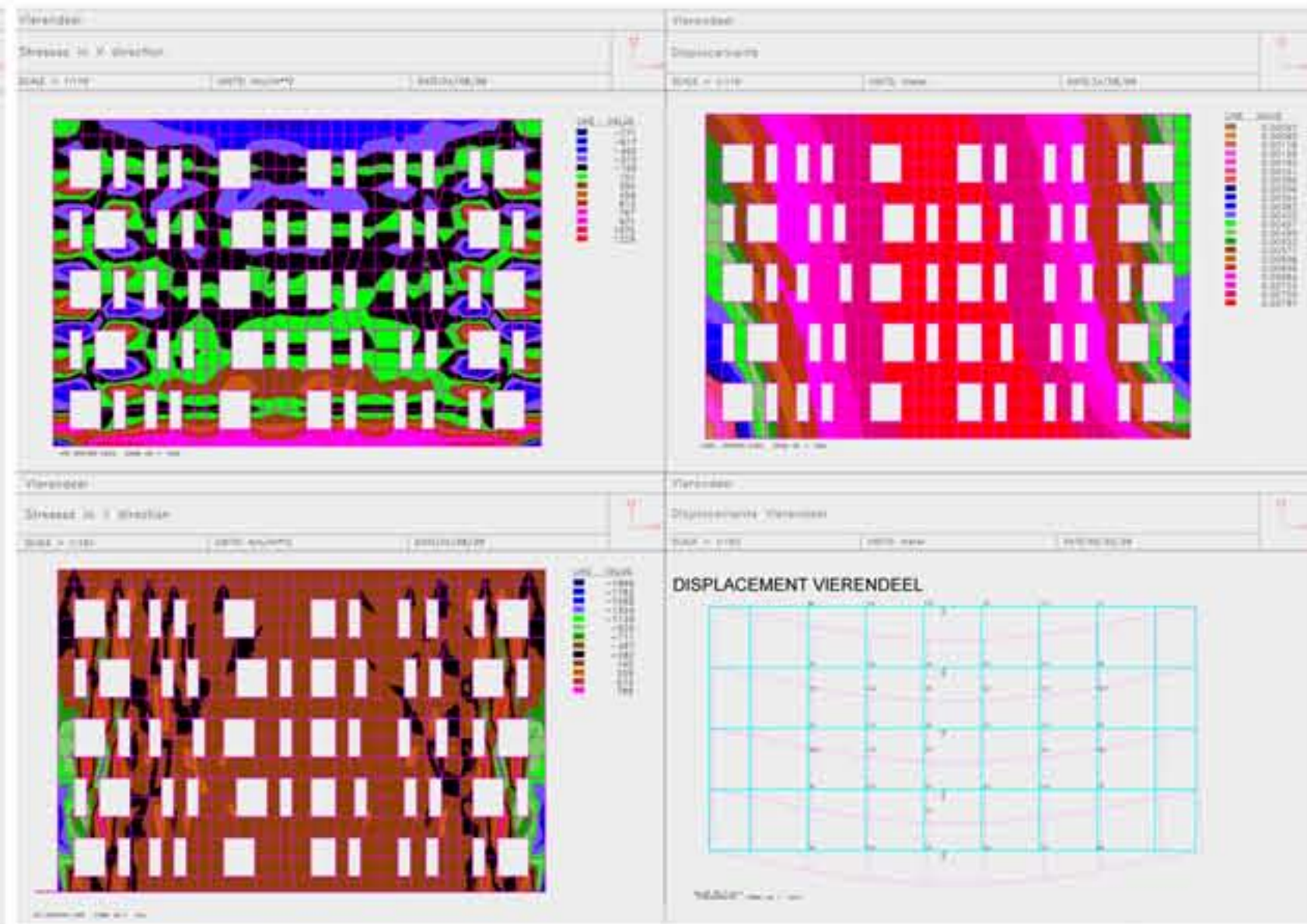
STRUCTURAL STRATEGIES



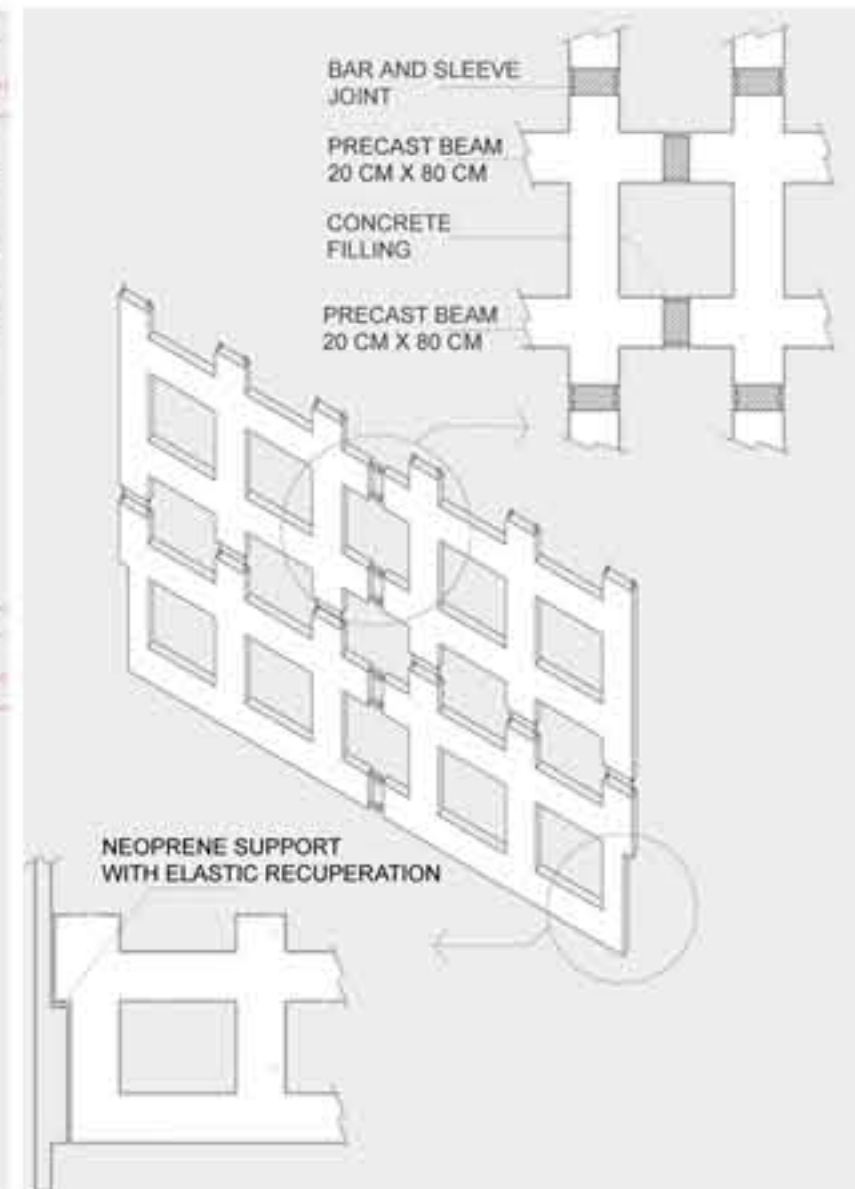
STRUCTURAL STUDIES TOWER



STRUCTURAL STUDIES VIERENDEEL BEAMS



PRE-CAST ELEMENTS



ASSEMBLY DETAIL

- 1- Lower panel of Precast Concrete Vierendeel Beam
- 2-Intermediate panel of Precast Vierendeel Beam
- 3-Steel Bar and sleeve joint
- 4- Sleeve joint in between panels
- 5- Concrete Filling
- 6- Steel Bars following structural calculations
- 7- Reinforced Concrete Slab supported by Precast Vierendeel Beam with framework and telescoping shoring
- 8- Reinforced Concrete Slab supported by Precast Vierendeel Beam with framework and telescoping shoring supporting by lower slab
- 9- Upper panel of Precast Concrete Vierendeel Beam
- 10- Steel Bar and sleeve joint waiting for concrete filling
- 11- Metallic Frame work for joint
- 12- Framework and telescoping shoring for reinforced concrete.
- 13- Steel Bars following structural calculations
- 14- Upper reinforced concrete slab