

SENIOR > TASK

Competitors in the SENIOR Section can be 3rd, 4th year and master students at a university in the AEC field (architecture - master is equivalent to the 5th and 6th year, engineering, construction).

Competitors must respect calendar dates, procedures and registrations. All Phase 1 entries must be received by July 2nd, 12:00pm EEST.

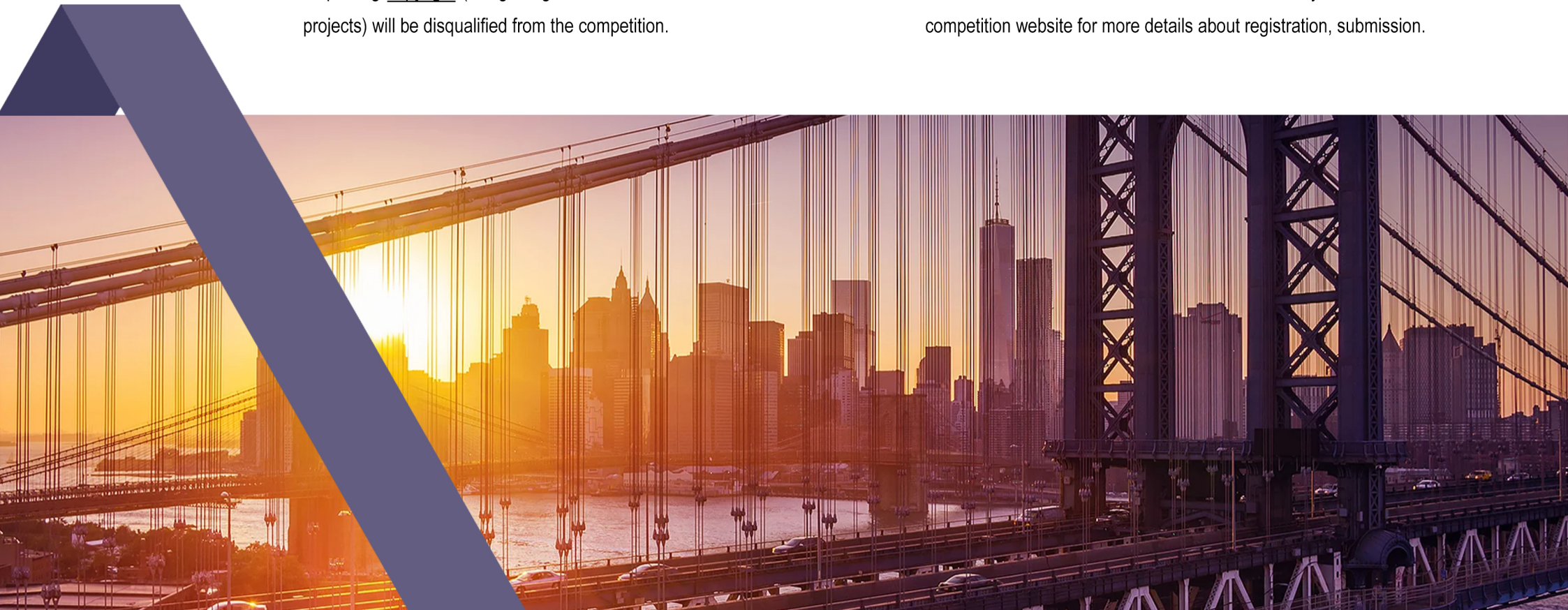
The project must be submitted in a PDF format (upload directly on the competition site) and in Allplan format (zip+inf - upload to Dropbox, Google Drive, wetransfer or a similar service and send us the link* in the Submit your Project form). Competitors will use the layout and label provided by the organizer which can be downloaded on the competition website.

All the submitted material must belong to the participant. Competitors not respecting copyright (using images, texts or drawn elements from other projects) will be disqualified from the competition.

Each entry in the section SENIORS - Infrastructure Bridge Design will consist of 10-11 vertical layouts which will include the following:

- General arrangement (plan, elevation, cross section)
- Laying out plan
- Pile reinforcement plan
- Abutment and pile foundation formwork and reinforcement plans
- Pier and pile foundation formwork and reinforcement plans
- Prefabricated beam formwork and reinforcement plans
- Concrete slab formwork and reinforcement plans
- Bills of quantities (reports)

Additional information is welcome but not mandatory. See RULES on the competition website for more details about registration, submission.



EVALUATION CRITERIA

- the organization of the project <
- the aesthetics of the structural solution <
- the level of detail of all the required elements <
- the quality and aesthetics of the presentation layouts <

INFRASTRUCTURE BRIDGE DESIGN

Create a 3D model of a bridge with at least two spans, with the superstructure composed of prestressed precast beams connected by a concrete slab. The structure will have deep foundations on piles.

The bridge design is based on the information offered by the road project (site plan, longitudinal section, cross slopes, etc.)

BIM CRITERIA

The model should include:

- 2D drawings
- the 3D formwork model for the whole structure (piles and foundations, abutments, piers, beams and concrete slab);
- 3D reinforcement models for the whole structure (piles and foundations, abutments, piers, beams and concrete slab);
- formwork plans, based on the 3D model, for the whole structure (see the elements listed above);
- reinforcement plans for a pile, an abutment and a pier with their corresponding foundations, a beam and the concrete slab;
- the detailing will be done using Associative views;
- reports (bills of quantities);
- renders (these are optional, but welcome).

