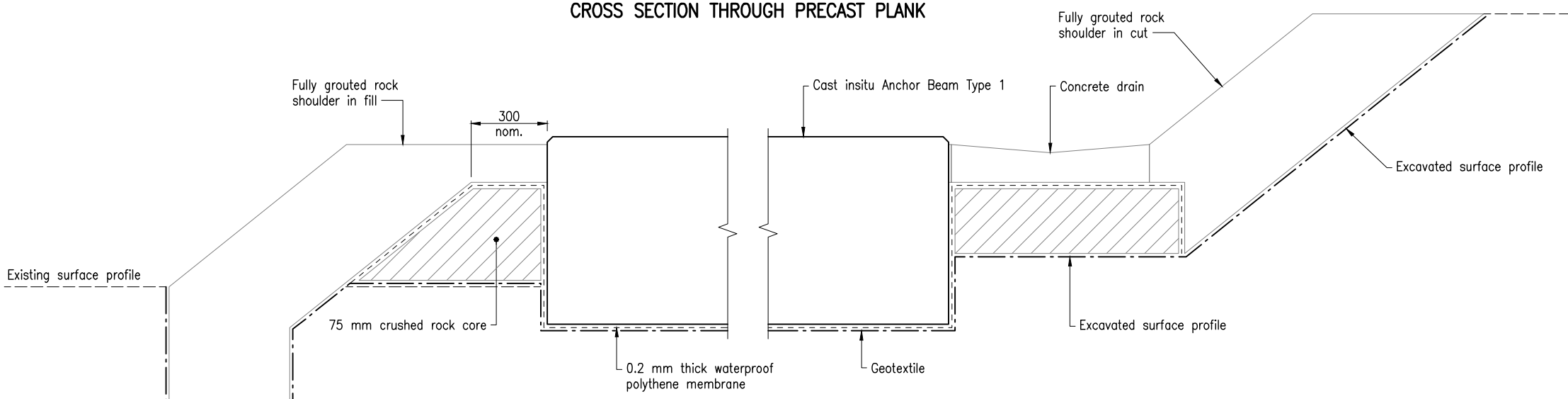
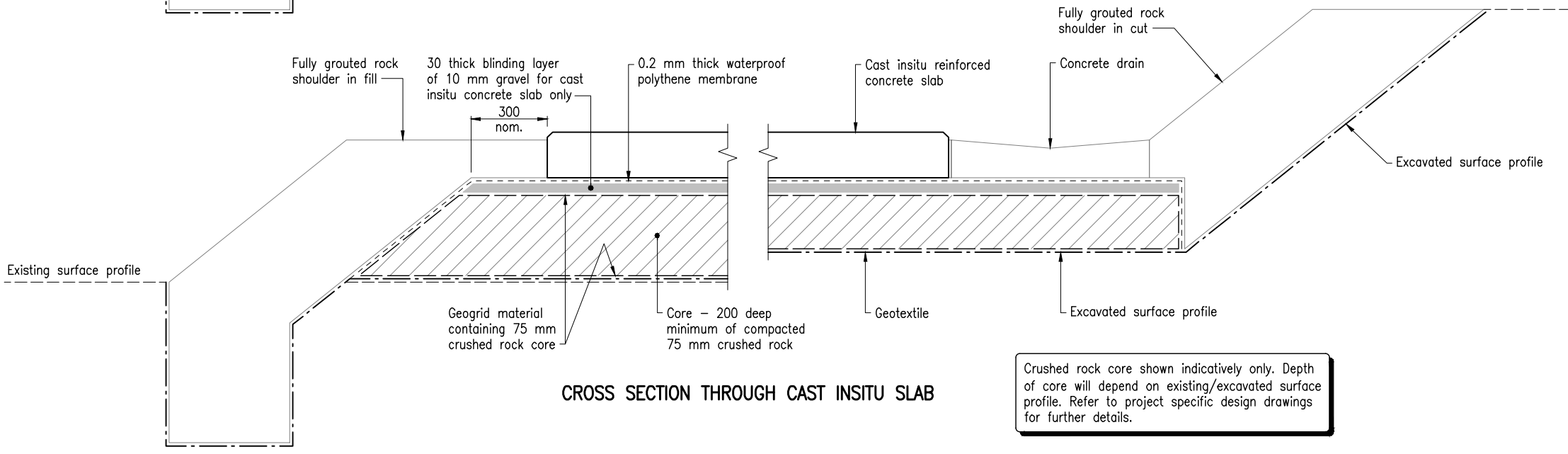


CROSS SECTION THROUGH PRECAST PLANK



CROSS SECTION THROUGH CAST INSITU ANCHOR BEAM TYPE 1



CROSS SECTION THROUGH CAST INSITU SLAB

Crushed rock core shown indicatively only. Depth of core will depend on existing/excavated surface profile. Refer to project specific design drawings for further details.

NOTES:

- CONSTRUCTION OF BOAT RAMP shall be in accordance with MRTS300.
- 75 mm CRUSHED ROCK shall have the following grading:

Australian Standard Sieve Size	Percent Passing
100	100
53	< 30
37.5	0

- CRUSHED ROCK COMPACTION shall be in accordance with MRTS300.
- 10 mm GRAVEL BLINDING LAYER shall only be used under cast insitu concrete slabs. Blinding layer is not to be used under precast planks.
- TREATMENT OF ASS/PASS and other contaminants (if required) is defined in the project specific Environmental Management Plan.
- GEOGRID shall have the following properties:

Parameter	Requirement
Material	Manufactured from polypropylene sheet with transverse and longitudinal ribs of minimum thickness 1.3 mm
Aperture size	Approximately 37x 37 to contain 75 mm crushed rock
Quality Control Strength	30 kN/m with a peak strain of 10% in both directions
Junction strength between the longitudinal and transverse ribs	Greater than 95% of the Quality Control Strength in both directions

Unless shown otherwise laps shall be 250 minimum and braided together so that both edges are fixed to the lapped sheets.

Braid shall have a nominal weight of 6.8 g/m and be made from 3 ply, 19 strands per ply, high density polyethylene (HDPE), and shall have a breaking strength greater than 200 kg.

- GEOTEXTILE shall have the following properties:

Parameter	Requirement
Material	Non-woven needle punched staple fibre polyester or polypropylene meeting minimum strength Class D and Filtration Class 1
Elongation	>= 30%
Grab Strength	1200 N
Tear Strength	450 N
G Rating	3000

Placement shall be in accordance with MRTS300.

Unless shown otherwise laps shall be 500 minimum.

Construction equipment shall not stand or travel directly over geotextile.

Rock armour (> 150 mm) placed directly on geotextile shall have a maximum drop height of 1.5m.

- For precast plank installation and anchor beam details refer Standard Drawing 4020.
- DIMENSIONS are in millimetres unless shown otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:

- Standard Drawings
- Specifications

REFERENCED DOCUMENTS:

- Departmental Standard Drawings: 4022 Boat Ramp Construction - Fully Grouted Shoulders and UngROUTed Shoulders
- Departmental Specifications: MRTS300 Boat Ramps

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BOAT RAMP		
BOAT RAMP CONSTRUCTION - EARTHWORKS AND CRUSHED ROCK CORE DETAILS		Standard Drawing No 4021 Date 10/15
A3	Not to Scale	