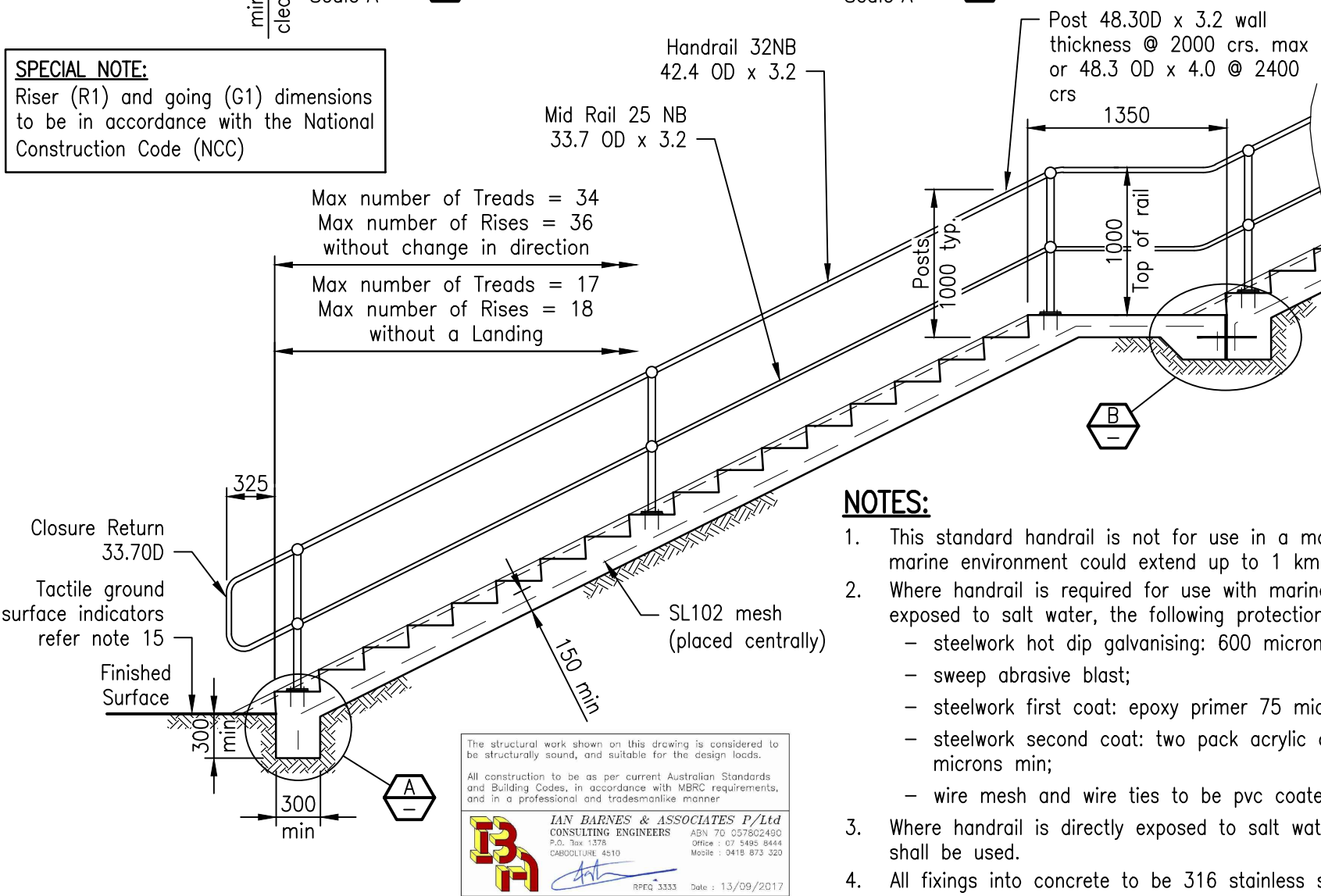


**BICYCLE FACILITIES ON STAIRWAYS**

**SPECIAL NOTE:**  
Riser (R1) and going (G1) dimensions to be in accordance with the National Construction Code (NCC)

Max number of Treads = 34  
Max number of Rises = 36  
without change in direction

Max number of Treads = 17  
Max number of Rises = 18  
without a Landing



**NOTES:**

- This standard handrail is not for use in a marine environment. The marine environment could extend up to 1 km from the foreshore.
- Where handrail is required for use with marine environment but not exposed to salt water, the following protection treatment is required:
  - steelwork hot dip galvanising: 600 microns min;
  - sweep abrasive blast;
  - steelwork first coat: epoxy primer 75 microns min;
  - steelwork second coat: two pack acrylic or polyurethane gloss 75 microns min;
  - wire mesh and wire ties to be pvc coated.
- Where handrail is directly exposed to salt water, 316 stainless steel shall be used.
- All fixings into concrete to be 316 stainless steel.
- Paint systems to be in accordance with AS2312 and is designated HDG600P6 and HDG600P.
- Preferred coupling type to be used is Monwills System. Other standard couplings (Sentaur joints, Kee-Klump, Down-ee fittings, Swaged joints or similar) may be used in place of Monwills System.
- All welds to be 5 thick C.F.W. (continuous fillet welds) to AS1554.1 with hot-dip galvanising treatment to completed welds.
- Design load for stairs:
  - 5kPa uniformly distributed loads;
  - 4.5kN concentrated point load.
- All concrete to be grade N25.
- Soil foundation material capable of withstanding 100Kpa working load.
- Treads of stairs to be of a slip resistant finish to Class V to HB197.
- Footings to suit site ground conditions, min. 300x300.
- Steel work may be powder coated to AS4506 to match colour co-ordination in the area. N65 Graphite Grey or N61 Black to AS2700-1996.
- Hot dip galvanising: ferrous open sections to AS4791, ferrous hollow sections to AS4792.
- Tactile ground surface indicators to conform to AS1428.4.
- Work to conform with Australian Standards AS1657, AS3600 and the Building Code of Australia (BCA).
- Dimensions in millimetres unless noted otherwise.

The structural work shown on this drawing is considered to be structurally sound, and suitable for the design loads.

All construction to be as per current Australian Standards and Building Codes, in accordance with MBRC requirements, and in a professional and tradesmanlike manner.

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RPEQ 3333 Date : 13/09/2017

REVISIONS	INIT	DATE
E		
D		
C		
B	Approved by Structural Engineer	TC 7/17
A	Handrail Post repositioned	RH 01/17
X	ORIGINAL ISSUE	VC 07/16

INIT	DATE
VC	07/16

Drawn	VC	Date	07/16
Coordinator	WM	Date	07/16
AUTHORISED			
<b>SYD JERRAM</b> 07/07/16			
Manager Integrated Transport Planning & Design RPEQ 6872			

**STAIRWAY  
REINFORCED CONCRETE**

**Moreton Bay  
Regional Council**

DRG No. **PN-6690**

ORIGINAL SIZE **A3** REVISION **B**