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Our Ref: 04/1360-02
Your Ref:

31 March 2016

Smart Urban Pty Ltd
6/83 Kent Way
MALAGA WA 6090

SMART TAPER- LOCK SYSTEM FOR SINGLE POST SIGNS

I refer to your request seeking approval to use the smart taper- lock system for all single post sign installation. Our specification have clear provision to use the system for removable signs and categorise removable signs as the ones on High-Wide Load corridor routes, and in locations where signs are frequently hit and the removable post design enable the post to be replaced using the existing footing.

The smart taper-lock system is designed for use only with CHS post. Currently RHS posts are mostly used for single post signs. The required RHS sizes are 76x38x2mm and 75x50x2.5mm and their use depends on the wind regions and size of sign as mentioned in Annexure 601D of Specification 601. However, an alternative size 60.3CHS2.3 is also specified in place of 76x38x2mm RHS

In the absence of a CHS post size to replace RHS 75x50x2.5mm in our specification, you submitted us with a technical report prepared by Design Engineer Nick van der Kreek from AustubeMills, in which size 60.3CHS2.5, Grade450 has been recommended as an alternative to RHS 75x50x2.5mm. Our Structures Branch assessed the recommendation and accepted the same.

Therefore, the use of CHS posts 60.3CHS2.3 and 60.3CHS2.5 (Grade 450) for RHS posts 76x38x2mm and 75x50x2.5mm are permitted. However, the discretion of their use in every single post sign lies with Main Roads WA project managers and contractors who will take into consideration, the installation cost and any associated maintenance cost.

The sign specification 601 and the relevant standard drawings will be revised to incorporate these changes. If smart taper-lock system is used for installing the sign post, the footing, sleeves and bases for the installation of the sign shall be in accordance with the manufacturer's recommendation.

If you require any further information please contact above mentioned officer.

R Koorengevel
A/TRAFFIC ENGINEERING STANDARDS MANAGER