

Ministry of Transportation

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March 15, 2019

David Archer, P. Eng.
Manager – Engineering & Business Development
DECAST
8807 County Road 56
Utopia ON L0M 1T0

RE: GRAVIX PRECAST RETAINING WALL SYSTEM
APPLICATION TO MTO RSS COMMITTEE FOR MTO DSM APPROVAL

This is in response to your letter dated June 6, 2018 and the Final Evaluation Report (Golder Associates – March 1, 2019) for approval of the Gravix Precast Retaining Wall System on the MTO DSM List #9.70.56 for Retained Soil Systems (RSS) – Wall / Slope with the following attributes:

- Company – DECAST
- Trade Identity / System – Gravix Precast Retaining Wall System
- Maximum Angle – 90° from horizontal
- Maximum Wall Height – 8 m
- Appearance – High
- Performance – High
- Acceptance – DE
- Traffic Barrier – Y

Supporting documentation includes the Final Evaluation Report entitled *Gravix RSS manufactured by DECAST Ltd. – Submission for inclusion on DSM* and Appendices (Tabs 1 to 34), prepared by Golder Associates Ltd., dated March 1, 2019.

The Gravix System is a gravity retaining wall consisting of individual T-shaped precast concrete units stacked vertically, locked into place via shear nodes and backfilled with

good quality granular backfill (OPSS Granular A or B) within / behind the Gravix wall units. The concrete units have a facing panel 1.2 m high by 2.4 m wide and a vertical centre stem ranging in length from 2.4 m to 6.1 m. Project specifications for the Gravix wall system include absolute maximum (total) settlement of 25 mm and differential settlement of no more than 6 mm over 3 m (1 in 500). The top of the wall can incorporate a MASH TEST Level 4 (TL-4) precast traffic barrier unit (Tabs 18, 19, 31).

The MTO RSS Committee has completed a review of the submission for the Gravix Wall System and confirms acceptance for **Wall / Slope** on the **MTO DSM List # 9.70.56** as **RSS No. 56** with the system attributes listed above. DECAST is free to bid on any MTO construction contract for which the system is approved for Application, Performance and Appearance as specified in the MTO contract documents and in accordance with MTO RSS Special Provisions SP 599S22 and SP 599S23.

To move from Demonstration status (DE) to Acceptance (A), a Monitoring Report for a Gravix Wall installation on an MTO contract should be provided to the MTO RSS Committee based on minimum one (1) year of post-construction inspection and monitoring to demonstrate acceptable performance.

Should you have any questions, please contact me at (416) 235-4073.

Yours sincerely,

David Staseff, P. Eng.
Chair – MTO RSS Committee

cc: Golder Associates – P. Dittrich, A. Szot
MTO RSS Committee – T. Sangiuliano, K. Ahmad, M. Titherington, W. Kenedi,
M. Meleka, C. Shim, D. Staseff