
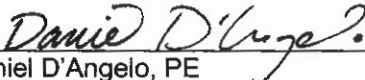


To: Superseded By EB 13-002 Effective 9/05/13		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 07-025
Title: SPECIAL SPECIFICATION FOR ROOT PRODUCT METHOD (RPM®) PLANT MATERIAL			
Distribution: <input type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Agencies (32) <input checked="" type="checkbox"/> Contractors (39)		Approved:  Daniel D'Angelo, PE Deputy Chief Engineer, Design 8/09/07 Date	

ADMINISTRATIVE INFORMATION:

- Effective Date: This Engineering Instruction (EI) is effective with projects submitted for the letting of January 10, 2008.
- This EI does not supersede any previous issuances.
- Disposition of this material: The information in this EI will ultimately be incorporated into the Highway Design Manual.

PURPOSE:

To issue a special specification for Root Production Method (RPM®) plant material. This plant material may be appropriate in certain situations, as determined by the project Landscape Architect (eg. Wetland creation sites, and wetland banking areas where a high survival rate is critical for permit or other situations.)

TECHNICAL INFORMATION:

The process used following the RPM® method is a natural root production method that allows for accelerated growth. It produces larger, denser, and more fibrous root systems, as much as 18 times greater than trees grown using traditional methods. With this improved root system, RPM® plants absorb and utilize more oxygen and nutrients-resulting in faster growing plants with a higher probability of survival and fruiting.

IMPLEMENTATION:

A new special specification is available for use beginning with the letting of January 10, 2008. The specification is:

- PIN approved only.
- Proprietary. HDM Ch. 21 should be followed for approval.
- There will be no additional cost associated with this product for similar size material.

TRANSMITTED MATERIAL:

Attached is a copy of special specification 611.0101124, 611.0201124, 611.0301124, 611.0401124, 611.05011324, 611.06011324, & 611.07011224

BACKGROUND:

RPM® is the source for trees, shrubs, and grasses produced by the Root Production Method that accelerates the restoration of critical ecosystems. Without genetic modification, the natural Root Production Method produces trees that grow to maturity three times faster, have a superior survival rate (approaching 95%) and produce nuts, seeds, and fruits earlier. RPM® is preferred for the naturalization of wetland creation sites, including wetland banks, since RPM® allows for the onsite collection of native plant sources (seeds, nuts) for the production of the plants. The quicker maturity growth means that

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created wetland banks will reach minimum performance criteria several years earlier.

Research has shown that most species can be grown using the RPM® process. The RPM® process is uniquely based on a multi-step system that includes air pruning of the root system and trademarked soil preparation and husbandry techniques. The resulting denser, more fibrous root mass enables the plants to absorb and utilize more oxygen, water, and nutrients.

CONTACT:

Gary Glath, Design Quality Assurance Bureau, Landscape Architecture Section, 518/457-5286, gglath@dot.state.ny.us.

ITEM 611.01011124-RPM® PLANTING-MAJOR DECIDUOUS TREES
ITEM 611.02011124-RPM® PLANTING-MINOR DECIDUOUS TREES
ITEM 611.03011124-RPM® PLANTING-CONIFEROUS TREES
ITEM 611.04011124-RPM® PLANTING-DECIDUOUS SHRUBS
ITEM 611.05011324-RPM® PLANTING-EVERGREEN SHRUBS
ITEM 611.06011324-RPM® PLANTING-VINES & GROUNDCOVERS
ITEM 611.07011224-RPM® PLANTING-SPECIAL PLANT MATERIALS

DESCRIPTION

This work consists of furnishing, planting, and caring for plants specified in the contract documents.

MATERIALS

Section 611-2.02 Planting Materials shall apply. Trees, shrubs and special plants shall be as specified in the contract documents. Plant material shall be obtained from either:

Forrest Keeling Nursery (www.fknursery.com)
88 Keeling Lane
Elsberry, MO 63343

RPM® Ecosystems LLC (www.rpmecosystems.com)
2150 Dryden Road
P.O. #6
Dryden, NY 13053-9998

Or an approved equal.

CONSTRUCTION DETAILS

Section 611-3 CONSTRUCTION shall apply except as noted. The depth of all plant pits shall allow the root ball to sit on undisturbed subgrade unless otherwise specified in the Contract Documents. All plants not planted immediately shall be cared for as per *Section 611-3.01 D. Storage* and/or as directed by the Regional Landscape Architect.

METHOD OF MEASUREMENT

Section 611-4 Method of Measurement shall apply.

BASIS OF PAYMENT

Section 611-5 Basis of Payment shall apply.

Issuance Approval Request

Received
Engineering Division
Log # 4066

AUG 10 2007

FROM: D. D'Angelo, Office of Design, POD 2-3 *D. D'Angelo*

TO: 1. R. A. Dennison III, Chief Engineer, 6th Floor

2. B. Rowback, Chief Operating Officer, 6th Floor

3. M. McCarthy, Chief Administrative Officer, 6th Floor

4. M. Silo, Chief Regional Director, 6th Floor

SUBJECT: EI 07-025

<input checked="" type="checkbox"/>	Chief Engineer	Asst. to Chief Eng
	Ofc. of Design	Environmental Analysis
	Ofc. of Construction	Real Estate
	Ofc. of Structures	Resource Group
	Ofc. of Tech Services	Administration Group

DATE: June 21, 2007

Engineering Bulletin 07 - 025 *Special Specification for Root Method (RPM) Plant Material* is provided for your issuance approval. RPM is the source for trees, shrubs, and grasses produced by the Root Production Method (RPM) that accelerates the restoration of critical ecosystems. Without genetic modification, the natural Root Production Method produces trees that grow to maturity three times faster, have superior survival rate and produce nuts, seeds, and fruits earlier. RPM is preferred for the naturalization of wetland creation sites, including wetlands banks, since RPM allows for the onsite collection of native plant sources (seeds, nuts) for the production of the plants. This specification was written by the Landscape Architecture Section in DQAB. The document has been prepared in accordance with the Engineering Information Issuance System, reflects Regional and Main Office program area input obtained through a completed clearance review and approved as to form and content. Upon your approval or denial as noted by your signature below please return appropriate action.

<input checked="" type="checkbox"/> Approved / <input type="checkbox"/> Denied: <i>[Signature]</i> R. A. Dennison III, Chief Engineer	Date: <u>8/12/07</u>
<input checked="" type="checkbox"/> Approved / <input type="checkbox"/> Denied: <i>[Signature]</i> B. Rowback, Chief Operating Officer	Date: <u>8/15/07</u>
<input checked="" type="checkbox"/> Approved / <input type="checkbox"/> Denied: <i>[Signature]</i> M. McCarthy, Chief Administrative Officer	Date: <u>8/17/07</u>
<input checked="" type="checkbox"/> Approved / <input type="checkbox"/> Denied: <i>[Signature]</i> M. Silo, Chief Regional Director	Date: <u>8/21/07</u>
If denied, please provide rationale for denial:	