PLEASE PLANT

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Product 4.7: Rain Gardens | GEO-RNG

SECTION 32 92 23 – RAIN GARDENS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Design and installation of rain gardens for stormwater management and landscaping.
B. Related Sections:
Section 31 20 00 – Earth Moving: Site grading and preparation.
Section 33 46 00 – Subdrainage: Connection to stormwater systems.

1.2 REFERENCES
A. ASTM D4972 – Standard Test Method for pH of Soils.
B. ASTM D3385 – Standard Test Method for Infiltration Rate of Soils.
C. EPA Stormwater Management Standards.

1.3 SUBMITTALS
A. Product Data: Provide manufacturer specifications for engineered soil mix, geotextiles, and structural elements.
B. Shop Drawings: Include garden layout, plant selection, and overflow system design.
C. Maintenance Instructions: Submit guidelines for routine care and seasonal planting schedules.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience in rain garden system production.
B. Mock-Up: Install a representative section of the rain garden for approval prior to full installation.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Deliver materials in original packaging with identification labels intact.
B. Store plants and soil mix in a shaded, cool area to maintain viability.
C. Protect geotextile and structural components from UV exposure and damage.

1.6 WARRANTY
A. Provide manufacturer's standard warranty, including an 8-year structural warranty, 3 years on coatings and finishes, and 2 years on components. Consult terms and conditions for full warranty details per product type.

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PART 2 – PRODUCTS

2.1 MANUFACTURER
A. Please Plant, 200-100 Park Royal S, Vancouver, BC
Email: info@pleaseplant.com | Phone: +1 236-323-2179

2.2 MATERIALS

2.3 PRODUCT NORENCLATURE
GEO-RNG-[Design Code]-[Capacity Code]-[Planting Code]
Design Code: U (Urban), S (Suburban), N (Naturalized).
Capacity Code: 50, 100, 200 (Surface area in square feet).
Planting Code: NP (Native Plants), CP (Custom Planting).
Example**: GEO-RNG-U-100-NP** (Urban rain garden, 100 square feet, native plant selection).

2.4 BASE LAYERS
Engineered soil mix: High infiltration rate and nutrient retention.
Geotextile fabric: For erosion control and separation (ASTM D6461 compliant).

2.5 STRUCTURAL ELEMENTS (OPTIONAL)
Modular stormwater tanks for increased water storage.
Permeable pavers or gravel for accessibility and additional drainage.

2.6 PLANT SELECTION
Native plants for low-maintenance and ecological benefits.
Optional ornamental species for aesthetic customization.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify site conditions are suitable for rain garden installation, including grading and soil composition.
B. Confirm utility locations to avoid conflicts during excavation.

3.2 PREPARATION

A. Remove existing vegetation and debris from the site.
B. Excavate to the required depth, ensuring proper grading for water flow.
C. Install geotextile fabric to stabilize the base and prevent soil migration.

3.3 INSTALLATION

A. Soil Layering:
Place engineered soil mix evenly and compact lightly.
Incorporate structural elements as required by design.
B. Plant Installation:
Arrange plants according to the approved layout, considering water depth zones.
Mulch around plants to retain moisture and suppress weeds.
C. Overflow Systems:
Install integrated overflow systems per manufacturer instructions.
Ensure proper connections to existing stormwater infrastructure.

3.4 MAINTENANCE

A. Initial Maintenance:
Water plants weekly during the first growing season.
Remove weeds and invasive species regularly.
B. Long-Term Care:
Inspect overflow systems and geotextiles for blockages or damage semi-annually.
Replenish mulch and replace plants as needed.

3.5 CLEAN-UP

A. Remove all excess materials and debris from the site upon completion.
B. Restore adjacent areas disturbed during installation.

END OF SECTION