PLEASE PLANT

200-100 Park Royal S, Vancouver, BC
236-323-2179
info@pleaseplant.com
www.pleaseplant.com

Product 4.6: Overflow Systems | GEO-OVR

SECTION 33 46 43 – STORMWATER OVERFLOW SYSTEMS
PART 1 – GENERAL

1.1 SUMMARY
A. Section Includes:
Overflow systems for managing stormwater discharge during peak events.
B. Related Sections:
Section 33 46 00 – Subdrainage: Coordination with stormwater systems.
Section 31 00 00 – Earthwork: Site preparation for installation.

1.2 REFERENCES
A. ASTM D2444 – Standard Test Method for Impact Resistance of Thermoplastic Pipe and Fittings.
B. ASTM G154 – Standard Practice for Operating Fluorescent UV Lamp Apparatus for Exposure of Nonmetallic Materials.
C. ASTM B117 – Standard Practice for Operating Salt Spray (Fog) Apparatus.

1.3 SUBMITTALS
A. Product Data: Submit manufacturer's specifications, dimensions, and performance data.
B. Shop Drawings: Include system layout, connections, and required clearances.
C. Operation and Maintenance Manual: Provide instructions for proper use and maintenance.

1.4 QUALITY ASSURANCE
A. Manufacturer Qualifications: Minimum of 5 years' experience in manufacturing overflow systems.
B. Mock-Up: Provide a sample installation for review and approval prior to full installation.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Deliver systems in manufacturer's original, undamaged packaging with identification labels intact.
B. Store in a clean, dry area protected from UV exposure and physical damage.
C. Handle components carefully to prevent impact damage or deformation.

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.

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
A. Product Nomenclature:
GEO-OVR-[Type Code]-[Capacity Code]-[Finish Code].
Type Code: R (Retention), D (Detention), C (Custom).
Capacity Code: 50, 100, 200, 500 (Flow capacity in GPM).
Finish Code: UVR (UV-Resistant), COR (Corrosion-Resistant), HYD (Hydrophobic).

2.2 PROPERTIES
Impact Resistance: Compliant with ASTM D2444 standards.
UV Stability: Meets ASTM G154 for prolonged exposure to sunlight.
Corrosion Resistance: Exceeds ASTM B117 standards for salt spray durability.
Example: **GEO-OVR-D-100-COR** (Detention overflow system, 100 GPM capacity, corrosion-resistant finish).

2.3 DIMENSIONS
Inlet/Outlet Diameter: 4", 6", 8", and 12".
System Height: 12" to 48".

2.4 CUSTOMIZATION OPTIONS
Adjustable flow restrictors for site-specific discharge rates.
Integrated sediment filters and backflow preventers.
Finish options: UV-resistant, hydrophobic, or reflective coatings.

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PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that site conditions and stormwater systems are ready for installation.
B. Ensure grading and compaction meet manufacturer requirements for stable placement.

3.2 INSTALLATION

A. General Installation:
Install overflow systems in accordance with manufacturer's instructions.
Ensure proper alignment with drainage or stormwater systems.
B. Specific Configurations:
Inline Installation: Attach directly to stormwater tanks or pipes.
Freestanding Installation: Secure in retention basins or landscaped areas.
Subsurface Integration: Embed within permeable surfaces for minimal visibility.
C. Connections:
Use corrosion-resistant hardware for secure and leak-proof connections.
Verify flow rates and discharge paths are clear and functional.

3.3 MAINTENANCE AND INSPECTION

A. Cleaning:
Remove debris and sediment from system components biannually.
Flush sediment filters as necessary to maintain performance.
B. Repairs:
Replace damaged seals, restrictors, or components promptly.
Re-secure loose or misaligned units to restore functionality.

3.4 PROTECTION

A. Protect installed systems from construction activity or heavy equipment until project completion.

END OF SECTION