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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all "Specifier Notes" when editing this section.

SECTION 02630

STORM WATER LEACHING SYSTEM

Specifier Notes: This section covers NDS "Flo-Well®" storm water leaching system. Consult NDS for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Storm water leaching system.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. Provide section numbers. List other sections with work directly related to this section.

- A. Section 02_____ - Excavation and Backfill.
- B. Section 02_____ - Drain Pipe.

1.3 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including installation instructions.
- C. Shop Drawings: Submit manufacturer's shop drawings, indicating materials, components, and dimensions.
- D. Warranty: Submit manufacturer's standard warranty.

1.4 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide storm water leaching system from single manufacturer.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. NDS, Inc., 851 North Harvard Avenue, PO Box 339, Lindsay, California 93247. Toll Free (800) 726-1994. Toll Free Fax (800) 726-1998. Phone (559) 562-9888. Fax (559) 562-4488. Website www.ndspro.com. E-Mail nds@ndspro.com.

2.2 STORM WATER LEACHING SYSTEM

Specifier Notes: Specify Flo-Well® storm water leaching system components required for the specific application. Delete components not required.
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- A. 24-Inch Diameter by 28.75-Inch High Flo-Well Storm Water Leaching System:
 - 1. Part Number: FWAS24.
 - 2. Description: Structural-foam polyolefin, round drywell system with UV inhibitor.
 - 3. Diameter: 24 inches.
 - 4. Height: 28.75 inches.
 - 5. Capacity: 49 gallons.
 - 6. Knockout Leaching Ports per Panel: 18, 1.5-inch diameter.
 - 7. Knockout Inlet/Outlet Ports per Panel: 3, 4.5-inch diameter.
 - 8. Color: Black.
- B. 24-Inch Diameter Flo-Well Cover:
 - 1. Part Number: FWAS24C.
 - 2. Description: Structural-foam polyolefin, round drywell system cover with UV inhibitor.
 - 3. Diameter: 24-1/4 inches.
 - 4. Height: 4-5/8 inches.

5. Outer Lip: 3/4 inch.
6. Center Knockout: 4.5-inch diameter.
7. Color: Black.

C. Flo-Well Side Panels/Extension Only:

1. Part Number: FWSPS3.
2. Description: Structural-foam polyolefin, side panels with UV inhibitor.
3. Size: 24 inches high with recessed 0.75-inch lip.
4. Knockout Leaching Ports per Panel: 18, 1.5-inch diameter.
5. Knockout Inlet/Outlet Ports per Panel: 3, 4.5-inch diameter.
6. Color: Black.

D. 24-Inch Diameter Flo-Well Bottom:

1. Part Number: FWBP24.
2. Description: Structural-foam polyolefin, round drywell system bottom with UV inhibitor.
3. Diameter: 24 inches.
4. Leaching Ports: 6, 1-1/2-inch diameter.
5. Center Knockout for Strut Coupling: 4.5-inch diameter.
6. Color: Black.

E. 4-Inch Schedule 40 Surface Drain Inlet with Grate:

1. Part Number: FWSD69.
2. Description: Structural-foam polyolefin, 6-inch grate with 4-inch inlet with UV inhibitor.
3. Diameter at Inlet: 6 inches.
4. Height: 9 inches.
5. Outside Diameter: 4.5 inches, fits Schedule 40 PVC fittings.
6. Color: Black.

F. Porous Filter Fabric Wrap for Flo-Well:

1. Part Number: FWFF67.
2. Description: 7-foot long by 2-foot wide, non-woven fabric to surround Flo-Well drywell system.
3. Weight: 1 ounce.
4. Mullen Burst: 175 psi.
5. Flow Through: 200 gpm.
6. Color: Black.

2.3 OPTIONS

Specifier Notes: Specify Flo-Well⁷ storm water leaching system options required for the specific application. Delete options not required.

A. 9-Inch by 9-Inch Atrium Grate:

Specifier Notes: Specify Part No. 981 for Black. Specify Part No. 991 for Green.

1. Part Number: [981] [991].
2. Description: 9-inch square, structural-foam polyolefin, dome atrium grate with UV inhibitor.
3. Grate Openings: 3/8 inch.
4. Open Surface Area: 30.28 square inches.
5. Inlet Capacity: 39.67 gpm.

Specifier Notes: Specify required color. Delete color not required.

6. Color: [Black] [Green].

B. 9-Inch Square Grate:

Specifier Notes: Specify Part No. 980 for Black. Specify Part No. 990 for Green. Specify Part No. 999 for Gray. Specify Part No. 999S for Sand.

1. Part Number: [980] [990] [999] [999S].
2. Description: 9-inch square, structural-foam polyolefin, grate with UV inhibitor.
3. Grate Openings: 7/16 inch.
4. Open Surface Area: 39.50 square inches.
5. Inlet Capacity: 51.75 gpm.
6. Load: 61 to 175 psi.

Specifier Notes: Specify required color. Delete colors not required.

7. Color: [Black] [Green] [Gray] [Sand].

C. 12-Inch by 12-Inch Atrium Grate:

Specifier Notes: Specify Part No. 1280 for Green. Specify Part No. 1290 for Black.

1. Part Number: [1280] [1290].
2. Description: 12-inch square, structural-foam polyolefin, dome atrium grate with UV inhibitor.
3. Grate Openings: 3/8 inch.
4. Open Surface Area: 60.00 square inches.
5. Inlet Capacity: 78.60 gpm.

Specifier Notes: Specify required color. Delete color not required.

6. Color: [Green] [Black].

D. 12-Inch by 12-Inch Square Grate:

Specifier Notes: Specify Part No. 1210 for Gray. Specify Part No. 1211 for Black. Specify Part No. 1212 for Green. Specify Part No. 1212S for Sand.

1. Part Number: [1210] [1211] [1212] [1212S].
2. Description: 12-inch square, structural-foam polyolefin, grate with UV inhibitor.
3. Grate Openings: 3/8 inch.
4. Open Surface Area: 50.76 square inches.
5. Inlet Capacity: 66.50 gpm.
6. Load: 61 to 175 psi.

Specifier Notes: Specify required color. Delete colors not required.

- 7. Color: [Gray] [Black] [Green] [Sand].
- E. 9-Inch by 9-Inch Low-Profile Adapter:
 - 1. Part Number: 930.
 - 2. Description: 9-inch by 9-inch, low-profile adapter with bayonet bottom outlet.
 - 3. Color: Black.
- F. 12-Inch by 12-Inch Low-Profile Adapter:
 - 1. Part Number: 1230.
 - 2. Description: 12-inch by 12-inch, low-profile adapter with bayonet bottom outlet.
 - 3. Color: Black.
- G. 3-Inch and 4-Inch Universal Locking Outlet:
 - 1. Part Number: 1243.
 - 2. Description: 3-inch and 4-inch universal locking outlet.
 - 3. Color: Black.
- H. 4-inch Schedule 40 pipe.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive storm water leaching system. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install storm water leaching system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install leaching system level and to proper elevation.

3.3 PROTECTION

- A. Protect installed storm water leaching system from damage during construction.

END OF SECTION