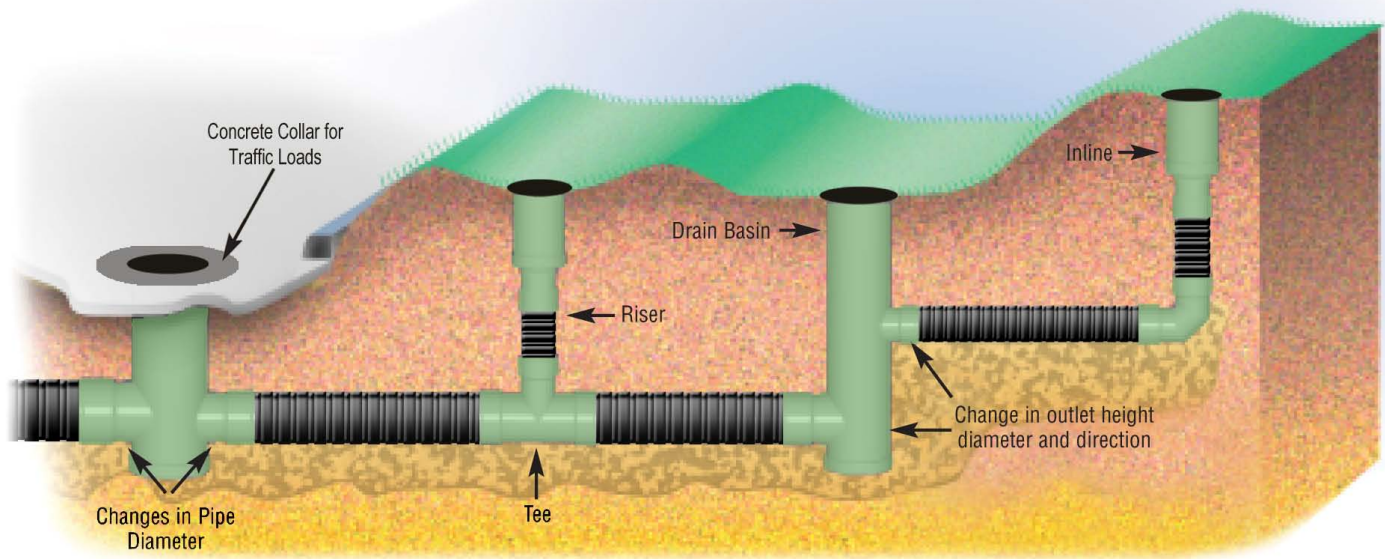




FABRICATED DRAINAGE PRODUCTS



Complete Drainage System



Inline Drains are used...

- At the beginning of a drain line
- To add a new water inlet to an existing drain line using a riser pipe and tee
- As a cleanout access / inspection port for drainage system

Drain Basins are used...

- As a junction box when drainage system inlets / outlets change diameter, change pipe type, change elevation, change direction, and allows for multiple inlets or outlets in one structure
- For a water inlet and sediment collection point entering a drainage system

HARCO Surface Drainage Structures are the perfect choice for:

- Commercial Developments
- Schools and Sports Complexes
- Roadways and Highways
- Parking lots
- Government Installations
- Parks and Recreation Areas
- Industrial Parks
- Golf Courses
- Residential Developments

Economical and Durable

HARCO surface drainage structures, including drain basins and inline drains, are manufactured from PVC pipe stock utilizing a thermo-molding process to ensure consistent watertight seal throughout the structure body and the outlet stubs. The raw material used to manufacture this PVC pipe stock shall conform to ASTM D1784 cell class 12454. These heavy-duty PVC structures are abrasion resistant and virtually immune to most types of corrosion.

Inlet / Outlet Adapters

The outlet stubs for HARCO surface drainage structures are manufactured from PVC pipe stock utilizing a thermo-molding process to ensure a tight pipe-to-structure fit that can meet or exceed the pressure requirements of the ASTM D3212 standard for connections joining drainage pipes utilizing flexible elastomeric seals conforming to ASTM F477.

HARCO can provide connections to most corrugated and smooth-wall plastic pipe types/brands.

Made to Order

Every drainage system is different. Whether small or large, your drainage system may require adapting to multiple pipe types and diameters, changes in direction and elevation.

HARCO Drain Basins are custom-built in a timely manner for each project, ensuring you can meet the design and timeline requirements for your project.

HARCO plastic drainage structures should be installed following ASTM D2321 installation guidelines accepted for backfill, compaction and installation of plastic drainage pipes.



Special Use Structures/Field Tap

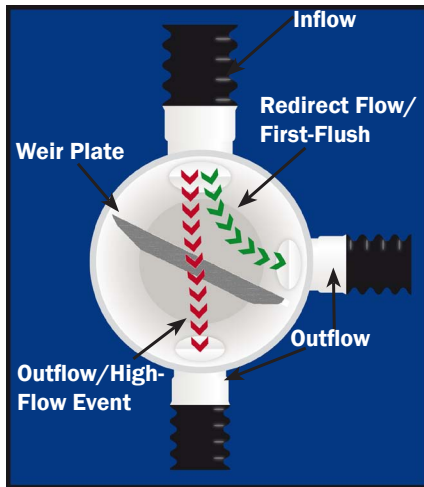
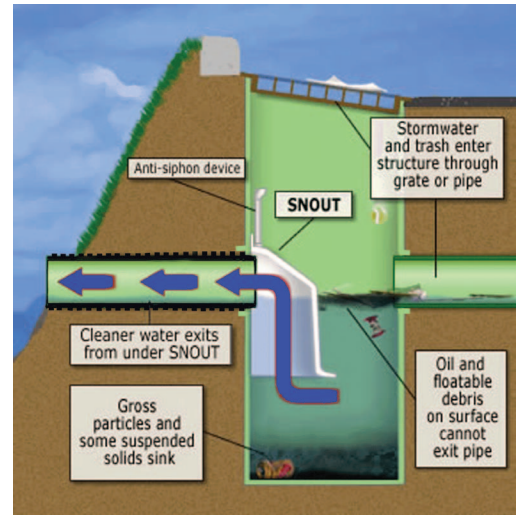
Snout Drainage Structure

The HARCO Snout-equipped Drainage Structure is a custom drain basin with a plastic composite hood attached to the wall of the drain basin covering the outlet.

This simple yet effective cover prevents floating debris, oils, and sediment from exiting the basin where it remains trapped and can easily be removed. The placement of the Snout cover over the basin outlet forces water to exit the basin outlet from the clear zone of water below the floating debris or oils, and creates environment conducive for many contaminants and debris to settle to the bottom of the basin as well.

The HARCO Snout Drainage Structure represents a cost-effective method for capture and retention of storm water pollutants.

Snouts are factory-installed and available for 18", 24", and 30" diameter HARCO drain basins.



Weir Drainage Structure

The HARCO Weir-equipped Drainage Structure is a custom drain basin with a stainless steel weir installed at the factory by HARCO, made to customer specifications.

Weir Drainage Structures are perfect for diverting water to preferred outlet within a HARCO drain basin, and also to restrict the flow of water.

These weir-equipped HARCO drain basins are widely utilized at the entrance and / or the exit of an underground storm water treatment system or an underground storm water retention / detention system.

These custom stainless steel weirs are available for 24", 30", and 36" diameter HARCO drain basins.

The customer is responsible for determining weir orientation, weir height, and orifice details for each custom weir drainage structure.

HARCO Field Tap

The HARCO Field Tap allows you the flexibility to add an inlet or outlet to your HARCO drain basin in-the-field when that unexpected additional line is identified, or if the exact location of that line was not able to be determined prior to basin installation.

HARCO Field Taps are available in 4" through 18" diameters. For installation, a drain basin 2 sizes larger than the HARCO Field Tap outlet is required.

Examples:

- 8" HARCO Field Tap requires a 12" basin
- 12" HARCO Field Tap requires a 18" basin
- 18" HARCO Field Tap requires a 30" basin

Kit Includes:

- An adhesive-backed cutting template
- Hole Gasket
- Bell x spigot adaptor (made to fit pipe you are connecting to)

Equipment Needed:

- Standard drill / bits
- Jigsaw
- Pipe lubricant



HARCO Grates and Covers

HARCO grates and covers are designed specifically to fit HARCO surface drainage structures. These castings are manufactured from metal conforming to ASTM A536 grade 80-55-06 for ductile iron.

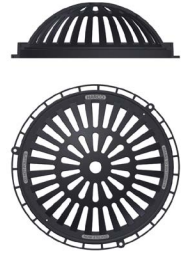
HARCO provides a wide selection of ductile iron castings including:

- Light duty drop-in grates for non-traffic / turf applications – designed primarily to fit 6" – 30" corrugated plastic pipes
- Light duty domed / beehive grates fits 6" – 30" structures (6", 8" and 10" domed grates are one-piece, 12"-30" are grate and frame sets)
- Round H10 load rated grate and frame assemblies for parking lots, pedestrian, and medium duty loads (.5 inch vane spacing conforms to ADA requirements) fits 8" – 30" structures (8" and 10" are 1-piece grates that are light duty only)
- Round H25 load rated grate and frame assemblies for traffic or heavy duty applications fits 12" – 36" structures
- Round H25 load rated solid cover and frame assemblies for maintenance access or heavy duty applications – fits 12" – 36" structures
- Square hinged H10 and H25 load rated grates and frames and solid covers and frames fit 12" and 15" structures
- H25 load rated 2'x2' square Traffic grate and frame assemblies, and 2' x 2' Curb Inlet grate, frame, and hood assemblies fits 12" – 30" structures
- H25 load rated 2'x3' rectangular Traffic grate and frame assemblies, and 2'x3' Curb Inlet grate, frame, and hood assemblies fits 18" – 36" structures

Light Duty Drop-In Grate



Light Duty Domed/Beehive Grate



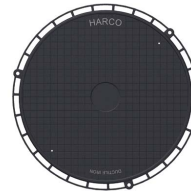
Round H25 Load Rated Grate



Round H10 Load Rated Grate



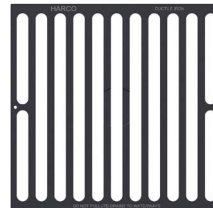
Round H25 Load Rated Solid Cover



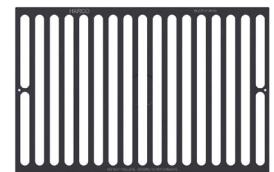
Square-Hinged Grates/Covers



2' x 2' Square Traffic Grate



2' x 3' Rectangular Traffic Grate



Curb Inlet Grate Assembly

