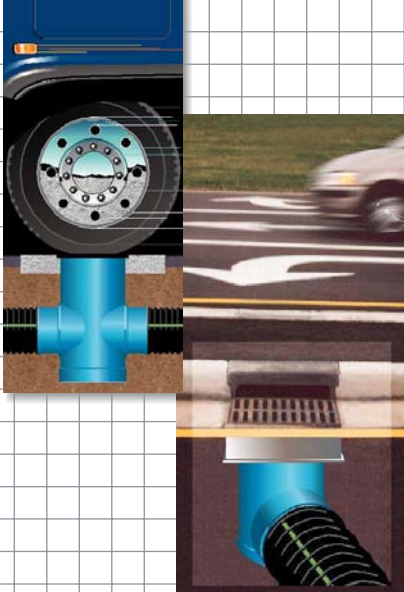


Tomorrow's  
Drainage System  
Today



 Nyloplast Storm Drainage Structures

  
  
**Nyloplast**<sup>®</sup> A DIVISION OF  
ADVANCED DRAINAGE  
SYSTEMS, INC.

  
ADVANCED DRAINAGE SYSTEMS, INC.



## About Nyloplast-ADS



Nyloplast-ADS is a wholly-owned subsidiary of Advanced Drainage Systems, Inc. of Columbus, Ohio. We specialize in the development, manufacture and sale of PVC plastic structures for underground piping systems based on our own unique production technologies. We serve the commercial, industrial, landscaping, government, general sport/recreation, golf course and other markets with a full line of custom fabricated heavy-duty road & highway structures, curb inlet structures, drain basins, inline drains, and drop-in grates.

At Nyloplast-ADS, we have seen the enormous cost of rebuilding yesterday's infrastructure, as metals and concrete complete their often limited service life. Today, the *engineered plastic system* is a reality, providing better hydraulic performance, extended service life, and cost efficiencies in installation and maintenance costs. Tomorrow, you will continue to see new products and applications from Nyloplast-ADS, the leaders in drainage systems.

We invite your call to help solve problems or answer questions. To serve you better, ADS has a nationwide network of sales and manufacturing facilities, so wherever you are, we're nearby.



*Easy Handling*



*Offset Structure Design*



*Ductile Iron Grates*



*No Field Fabrication*



*NPDES Related Products*



*Hinged Grates*

## Benefits

### Heavy Duty Construction

- Ductile Iron Grates
- PVC Bodies
- H-25 Rating
- No Corrosion or Degradation

### Easy, Economical Installation

- No Field Fabrication
- Easy Handling
- Rightsizing the Structure
- Offset Structure Design

### A Watertight System

- Gasketed Push-On Joints
- Ductile Iron Grates

## Features

- Locking Grates
- Hinged Grates
- Outlets Fit Most of the Underground Plastic Piping Systems Available
- Ductile Iron Grates for Every Traffic Situation, Weight Load and Site Requirement
- Locking Flange Design
- NPDES Related Products
- Watertight Joint



The Preferred Solution for Storm Drainage Applications.

## Applications

- Residential
- Parks & Recreational
- Golf Courses
- Schools
- Commercial
- Government
- Road & Highway



*Residential*



*Parks & Recreational*



*Golf Courses*



*Schools*

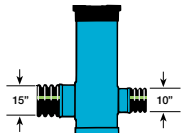


*Commercial & Government*



*Road & Highway*

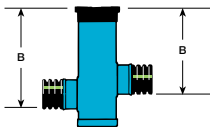
## When are Drain Basins Used?



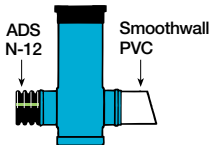
Change Diameter



Change Direction



Change Elevation



Change Pipe

## Drain Basins

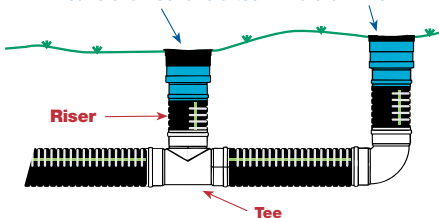


Nyloplast-ADS Drain Basins are used as a collection point where two or more drain lines converge.

## When are Inline Drains Used?

To enter an existing line by means of a riser and a tee.

At the beginning of a drain line.



## Inline Drains



Nyloplast-ADS Inline Drains and Ductile Iron Grates are unique in the surface drainage field and represent the latest in storm water piping technology.



## Grate Options



### Ductile Iron Grates for Every Traffic Situation, Weight Load and Site Requirement

- H-25 Heavy-duty grates
- Medium-duty grates
- Solid covers H-25 rated
- Bronze grates
- Domed grates
- Drop-in grates

### Locking option is available for all grates.

All grate options are available for drain basins and inline drains.

### Ductile Iron Grates meet the following ASTM standards.

ASTM A536 grade 70-50-05 for ductile iron.

ASTM A-48-83 class 30B for 12" & 15" cast iron frames.

### Drop-In Grates

Our Drop-In Grates provide easy installation by eliminating the need for a frame and adapt to a variety of commonly used pipes.



8", 10", 12", 15",  
18", 24" & 30"  
Dome  
Light-Duty



8" & 10"  
Standard  
Light-Duty  
(also available  
in bronze)



8" & 10"  
Solid  
Light-Duty



12" & 15"  
Standard  
H-25  
*Hinged  
Design*



12" & 15"  
Pedestrian  
H-10  
*Hinged  
Design*



12" & 15"  
Pedestrian  
Light-Duty  
Bronze



12" & 15"  
Solid  
H-25  
*Hinged  
Design*



18"  
Standard  
H-25



18" & 24"  
Solid  
H-25



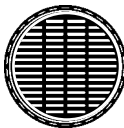
18"  
Pedestrian  
H-10



24"  
Standard  
H-25



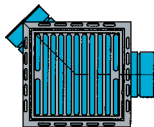
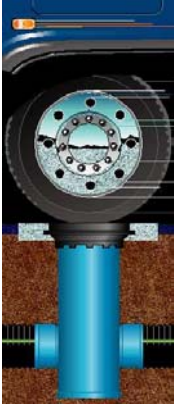
24"  
Pedestrian  
H-10



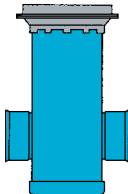
30"  
Standard  
H-25



30"  
Solid  
H-25



TOP VIEW



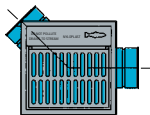
SIDE VIEW

## Road & Highway Structures

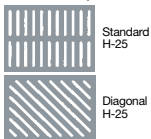
Nyloplast-ADS PVC Road & Highway Structures offer all of the Nyloplast-ADS product benefits such as heavy-duty construction, easy, economical installation and a watertight system. Plus, our H-25 rated ductile iron grates provide maximum surface drainage inlet capacity.



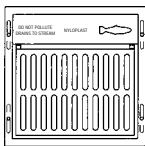
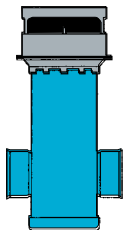
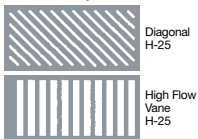
Available with 2'x 2' and 2'x 3' Ductile Iron Grates.



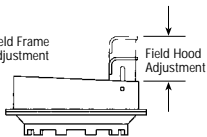
### 2'x 2' Grate Options



### 2'x 3' Grate Options

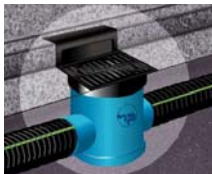


Field Frame Adjustment



Field Hood Adjustment

## Curb Inlet Structures

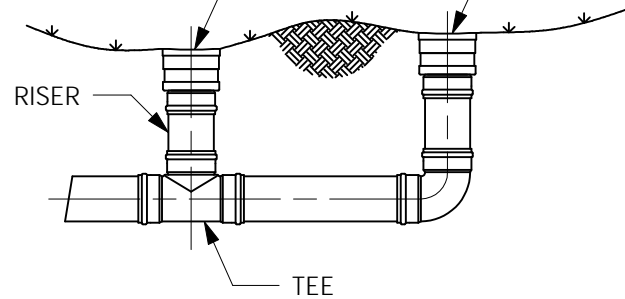


Nyloplast-ADS Curb Inlet Structures include all the advantages of our drain basin and fit drainage pipe up to 30". They are available with a variety of ductile iron grate options.

## WHEN ARE INLINE DRAINS USED?

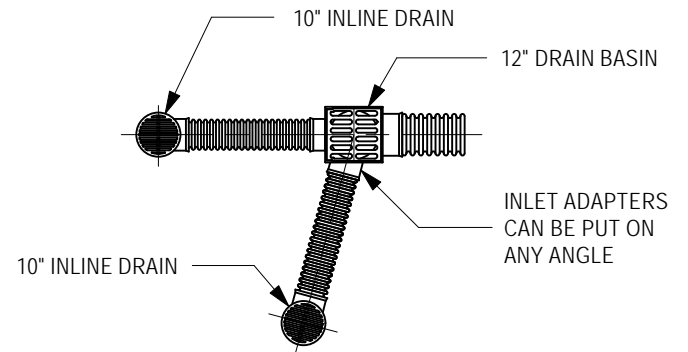
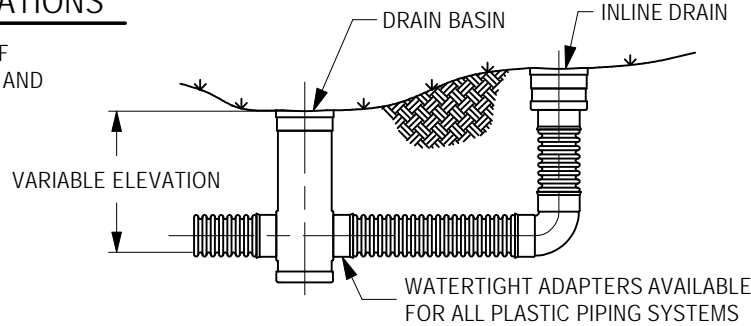
THE INLINE DRAIN CAN BE USED TO ENTER AN EXISTING LINE BY USE OF A RISER AND A TEE

THE INLINE DRAIN CAN BE USED AT THE BEGINNING OF A DRAIN LINE



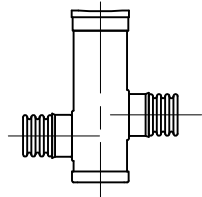
## TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

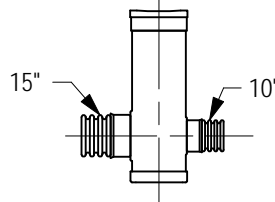


## WHEN ARE DRAIN BASINS USED?

1: CHANGE ELEVATION

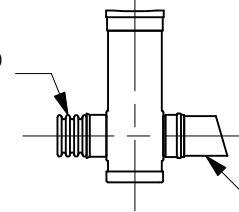


2: CHANGE DIAMETER

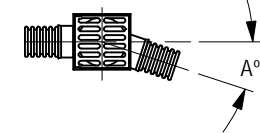


3: CHANGE PIPE

CORRUGATED POLY PIPE



4: CHANGE DIRECTION



AVAILABLE IN SIZES 8" THROUGH 30".  
ADAPT TO PIPE SIZES 4" THROUGH 30".

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DRAWN BY	AWA	MATERIAL	
DATE	10AUG00	PROJECT NO./NAME	
APPD BY	CJA	DRAIN BASIN / INLINE DRAIN	
DATE	10AUG00		
DWG SIZE	A	SCALE	1:90 SHEET 1 OF 1



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BUFORD, GA 30518  
PHN (770) 932-2443  
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www.nyloplast-us.com

TITLE  
8" - 30" TYPICAL INSTALLATION OPTIONS

DWG NO. 7001-110-042 REV B



## Section 2722

### Engineered Surface Drainage Products

**GENERAL**

PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates (12" and 15" frames are cast iron) for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.


**MATERIALS**

The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The pipe bell spigot shall be joined to the inline drain body by use of a **swage mechanical joint**. The pipe stock used to manufacture the inline drain body and pipe bell spigot of the surface drainage inlets shall meet the mechanical property requirements for fabricated fittings as described by ASTM D3034, Standard for Sewer PVC Pipe and Fittings; ASTM F1336, Standard for PVC Gasketed Sewer Fittings.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" (12" and 15" frames are cast iron) shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-25 wheel loading for heavy-duty traffic or H-10 loading for pedestrian traffic. 12" and 15" will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron and ASTM A-48-83 Class 30B for 12" and 15" cast iron frames. Grates shall be provided painted black.

**INSTALLATION**

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or 2 material as defined in ASTM D2321. The surface drainage inlets shall be bedded and back-filled uniformly in accordance with ASTM D2321. For H-25 Load rated installations, an 8" to 10" thick concrete ring will be poured under the grate and frame as recommended by details provided to the manufacturer.

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	DATE	10MAR00	PROJECT NO./NAME			
	APPD BY	CJA	TITLE	8" - 30" SPECIFICATIONS		
	DATE	10MAR00	DWG NO.	7003-110-009	REV C	
	DWG SIZE	A	SCALE	1:1	SHEET	1 OF 1