

CONCRETE

The Smart Choice for Storm Water Detention Systems



Structural integrity

Maximize land use and your investment

Always a superior choice to flexible pipe systems

Reduce financial risk

T rue environmental benefits



CONCRETE

The Smart Choice

Structural integrity

- Reinforced precast concrete systems are extremely durable.
- 100 year design life
- No special backfill requirements means installation is simplified.
- Strength is built into pipe.
- Flotation risk is eliminated with precast concrete systems.
- Shallow covers are no problem, exceeds HS 20 loadings.

Maximize land use and the owner's investment

- All land can be used for building and parking, maximizing investment.
- More parking spaces means building can be larger.
- Large volumes of water can be handled in a small footprint.
- Maintenance costs are substantially lower with precast.
- Precast concrete systems can be used in conjunction with structural storm water quality units.
- Sustainable development concept.
- Precast concrete takes unsightly "wet ponds" underground.

Always a superior choice to flexible pipe systems

- Using precast concrete avoids high lifelong maintenance costs.
- Owners don't have to be concerned with corrosion or deflection issues.
- Plastic pipe has far greater flotation risk.
- Precast concrete pipe offers the greatest long-term value.
- Precast concrete systems are constructable.

Reduce owners' financial risk

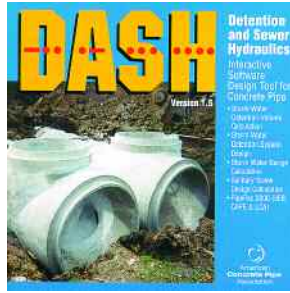
- Detention ponds have liability issues such as increased mosquitoes and a need for fencing.
- Flexible pipe may deflect and lose volume.
- Valuable land use can be maximized.
- No business disruption due to failed pipe.

T rue environmental benefits

- Concrete is made of the most common natural resources (sand, stone, water, cement) and readily available.
- Concrete pipe ranked number one in environmental performance compared to metal and plastic pipe.
- Concrete has the lowest ecotoxicity to sediment, soil, water and humans compared to any other product.
- Concrete ranks number one in lowest use of energy and lowest depletion of natural resources.
- Concrete can be made in close proximity to a job site, eliminating the need for fuel to transport the product long distances.

DASH

The new DASH (Detention and Sewer Hydraulics) CD features easy-to-use interactive design software for underground storm water detention systems, storm sewers and sanitary sewers.



STORM WATER DETENTION VOLUME CALCULATION

Determine the storage volume required for your site with a variety of methods:

- HEC-1
- TR-5
- Modified Rational Method
- TR-20

Upon completion the software generates a printable report for the design files.

STORM WATER DETENTION SYSTEM DESIGN

The intuitive software helps the user efficiently design entire systems with these features:

- Draw proposed layout to scale
- Use multiple sizes and types of pipes/box culverts
- Provide a listing of all materials for cost estimating

For additional information or to schedule a free training seminar on the DASH program, Contact Sherman-Dixie Concrete Inc. at 800-737-0707 or visit our Web site at www.shermandixie.com.



SIZES AND SPECIFICATIONS

| | Diameter (inches) | Volume (gallons) | Area (square feet) |
|------------------|----------------------|---------------------|-----------------------|
| Round Pipe* | 48 | 94 | 12.57 |
| | 60 | 147 | 19.64 |
| Elliptical Pipe* | 38 x 60 | 97 | 12.9 |
| | 43 x 68 | 124 | 16.6 |
| | 48 x 76 | 153 | 20.5 |
| Precast Boxes* | 6 x 5 | 209 | 28 |
| | 8 x 4 | 224 | 30 |
| | 10 x 4 | 284 | 38 |
| | 12 x 4 | 344 | 46 |
| | 15 x 5 | 546 | 73 |

*Many other sizes available



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Choose Sherman-Dixie, the smart choice for storm water detention systems.

