

STORMWATER MANAGEMENT SYSTEMS

CORRUGATED STEEL PIPE: THE ANSWER TO A CHURCH'S PRAYERS

When the Trinity Assembly of God Church in Brooklandville, Md., wanted to expand its parking lot, it was faced with a prohibitively expensive problem with stormwater runoff. Corrugated steel pipe (CSP) came to the rescue.

The planned addition entailed expansion of the parking lot in an area restricted by the Baltimore Beltway (I-695) and expensive real estate. The land normally used for above-ground stormwater retention could not be used. CSP was selected due to its availability in large diameters, enabling it to handle large volumes of stormwater economically.

The primary retention system consisted of over 2,500' of 96" and 60" diameter CSP. Also incorporated on the job was 430' of 30" diameter, hydraulically efficient spiral rib pipe. CSP's flexibility proved especially helpful during installation of the corrugated manholes used for access to the 96" diameter pipe system. The 30" CSP fittings were prefabricated at Lane's manufacturing facility and simply put into place at the job site, reducing costs.

Substantial cost savings were also achieved by using the same equipment to excavate the trenches and install the 96" and 60" CSP, a choice not usually available with other materials. The design and installation of this underground system permitted construction of the required size parking lot for the needed expansion in a restricted land parcel, without the need for costly land acquisition.

When you think savings, think corrugated steel pipe stormwater management systems.





WHAT YOU WANT ... WHERE YOU WANT IT ... WHEN YOU WANT IT.

LANE'S STORMWATER MANAGEMENT SYSTEMS: THE ECONOMICAL SOLUTION TO CONTROL STORMWATER RUNOFF

These systems maximize use of existing prime real estate and eliminate the poor aesthetics, hazards and risks of typical above-ground stormwater management ponds.

BIG PIPE FOR BIG JOBS

The strength and versatility of corrugated steel pipe and fittings makes them easier to handle and install and more economical than concrete or other materials. Large pipe, up to 144" in diameter, can be shipped direct to the project. Even larger structures can be field-erected.

LANE DOES IT ALL

Since CSP is easily fabricated, system layouts can be custom-designed. Elbows, tees, manifolds, inlets and outlet control structures can all be fabricated from CSP. Lane craftsmen do it all — no subcontractors or job shops are necessary.

PERFORATED PIPE

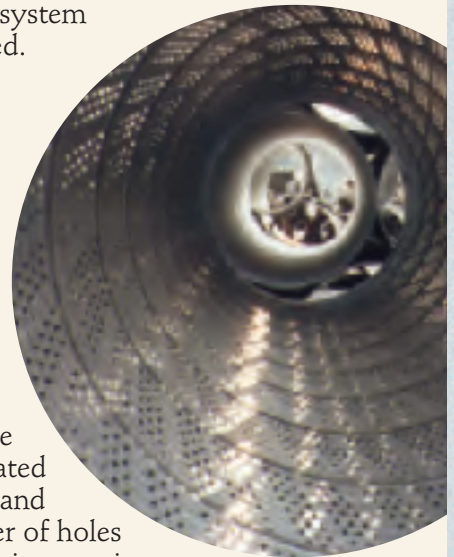
Perforations in corrugated steel pipe permit the recharge of stormwater runoff into the natural groundwater table. Pipe can be partially or fully perforated with 3/8" holes, in both 2-2/3 and 5 x 1 corrugations. The number of holes per square foot depends on design requirements for exfiltration. Maximum perforation is 30 holes (3.3 square inches) per square foot of pipe surface.

SPECIALTY ITEMS

Lane fabricates trash racks, removable pumping stations, portable sediment tanks, sediment basins, oil/grit separators, dewatering devices, orifice plates, weir ladders and other accessories needed for the complete system.

SYSTEM DESIGN SOFTWARE

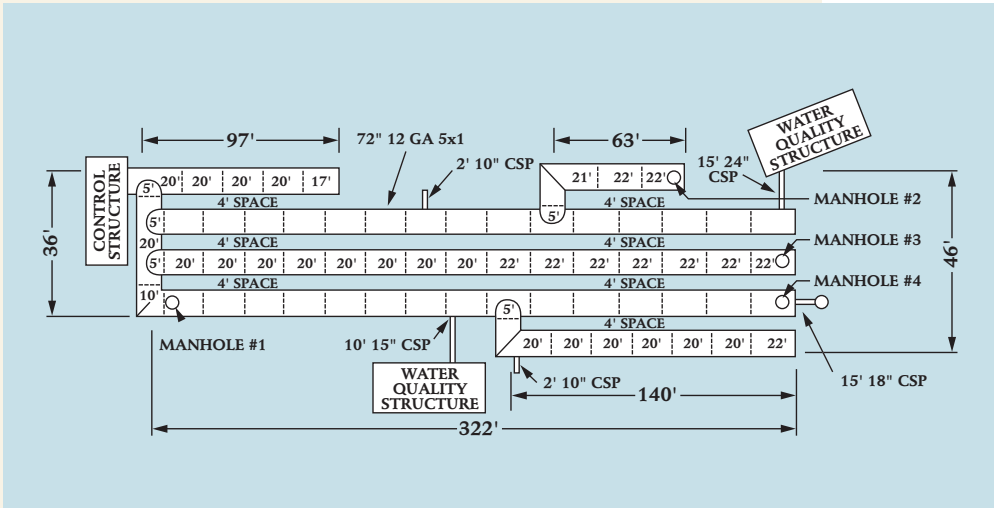
The National Corrugated Steel Pipe Association has developed software to minimize the engineering time required for the design of underground systems. The program develops an inflow hydrograph, stage storage and discharge relationships, routes the inflow hydrograph, designs the release structure and computes the outflow hydrograph. Please ask your Lane representative for more information.



INSTALLATION

Baltimore County, Maryland

This site for a new four-story office building is located in a rapidly growing area where real estate is very expensive. The project was designed to occupy land that would not drain properly unless a retention system was incorporated. The underground stormwater management system permitted construction of the required parking area for this size building, without the need for additional land acquisition.



DEVELOPERS DEPEND ON LANE: A PREMIER SUPPLIER

Lane's experience in supplying over a thousand custom-designed and fabricated stormwater management systems is ready to serve you. Lane's representatives can assist you with concepts, system configurations, product details, material selection and specifications. All pipe and fittings are manufactured by Lane to strict quality standards.



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