

Crumpler Plastic Pipe, Inc.

CORROSION RESISTANT GRAVITY DRAIN PIPE AND CULVERTS

INTRODUCTION

As industrial, urban and agricultural development increase, society is left with more impervious roads, parking lots, airports, factories, municipal area buildings, open strip mines and bare farm fields all sloping toward outlet streams that are becoming more polluted because the land development process has stripped away nature's "soil-plant" filter system. In addition, modern living also requires extensive sewer wastewater treatment that many small communities with small tax bases cannot afford. CPP corrosion resistant gravity drain pipe systems meet the BMP (BEST MANAGEMENT PRACTICE) needs of both waste and storm water polishing treatment systems for sustainable development.

CPP offers TWO types of High Density Polyethylene (HDPE) Corrugated Plastic Pipes for NON-PRESSURE, GRAVITY DRAIN, CORROSION RESISTANT applications. These are CPP'S SINGLE-WALL corrugated and CPP'S SMOOTH-WALL corrugated with a DOUBLE-WALL profile.

Both SINGLE-WALL and DUAL-WALL SMOOTH-CORE can be used in designing engineering solutions to a variety of Culvert Storm Sewer and Wastewater Treatment applications as well as Commercial Landscaping or Agricultural Controlled Drainage with Sub Surface Irrigation.

CPP'S DUAL-WALL SMOOTH-CORE corrugated pipe with a SMOOTH INTERIOR LINER is used in situations where the HIGH-FULL-FLOW capacity of each size is required to convey a High Surge water release, and in applications of little or no grade.

CPP'S improved water flow rates makes downsizing possible in some situations. The Anti-Adhesive, Non-Polar, Slick Surface nature of the HDPE plastic raw material minimizes solid waste build-up, and thus reduces cleaning maintenance costs.

HDPE is the most chemically inert of all commodity plastic raw materials. HDPE makes CPP'S SINGLE-WALL and DUAL-WALL SMOOTH-CORE pipes resistant to the combined effects of sand-gravel sediment ABRASION, and its consequent effects of CORROSION. CORROSION often causes other pipe materials to fail before the installed pipe system is fully depreciated. Engineers have specified HDPE pipes for years in CHEMICALLY ACTIVE acidic or alkaline site conditions where traditional pipe raw materials will rust out or collapse from an ever THINNING pipe wall caused by the CORROSION inducer of Sand-Gravel-Sediment ABRASION that is often suspended in FLASH FLOOD water surges.

In addition the inert chemical quality of CPP HDPE raw material based pipe systems provides corrosion resistant pipes that offer engineering solutions to the variety of PH wastewaters that flow in Industry, Agricultural and Municipal sewers.

GUIDE TO PRODUCTS AND APPLICATIONS

A. CPP'S corrosion resistant HDPE SMOOTH-CORE DUAL-WALL and SINGLE-WALL pipes provide long term service in CONSTRUCTED WETLAND (both surface and sub-surface) pipe systems designed to treat or polish sanitary, agricultural and storm water wastes. The corresponding photo on this screen shows an above ground constructed wetland's even flow

with CPP pipe.

- B.** ADAPTS to H-20 traffic loadbearing storm water catch basins and Wastewater treatment pre-formed manholes. H-20 traffic loads equal 32,000 pounds per axle.
- C.** H-20 Live traffic Loadbearing attainable with Class I, Class II and Class III soils compacted in layers.
- D.** Concrete on-site headwalls are easily formed behind plywood forms to prevent erosion. CPP pipes also easily adapt to commercially available metal flared end sections, and plastic flared end sections are available too. As with TAR COATED concrete and corrugated metal pipes, all of the above mentioned end sections protect CPP pipes from potential gang mower damage or the burn-off of thick fall brush.
- E.** Cut-Off GATE VALVES and specialty fabricated fittings can be provided to meet specific job site requirements.
- F.** Gravity-Flow Watertight couplers as well as adapters for connecting CPP pipes to existing pipe systems made from other raw materials are available along with conventional non-Watertight CPP couplers.

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