WHY PROSHOT?

Proshot Concrete is a leader in the concrete restoration industry. Our team consists of contractors and engineers who specialize in concrete renovation and restoration for over 50 years using the application of shotcrete and gunite as well as more traditional methods of concrete restoration. This combined knowledge and vast array of skills give Proshot Concrete the ability to tackle the most difficult projects with unique and original solutions.

The Proshot team has many years of experience with culvert rehabilitation, sewer rehabilitation, bridge repair and maintenance, ditch lining, retaining walls, and other concrete restoration projects. We have built a reputation of quality and integrity that is unmatched in our industry and pride ourselves on providing a quality product using skilled craftsmanship on time and within budget.

Specializing in shotcrete rehabilitation, concrete restoration and bridge repair and maintenance, Proshot Concrete is licensed and qualified to perform work in the following states and government agencies:

AL General Contractor, AL DOT, AR General Contractor, CO DOT, CT, DE, FL General Contractor, FL DOT, FL Department of Environmental Protection, Pinellas County, FL, South FL Water Management District, GA Utility Contractor, GA Utility Manager License, GA DOT, Glynn County, GA, IL DOT, Cook County IL General Contractor, IN Construction Services–Public Works, IN DOT, Indianapolis, IN General Contractor License, IA General Contractor, IA DOT, KS DOT, KY Transportation Cabinet, ME DOT, MD General Contractor, MD State Highway Administration, MD Transportation Authority, Baltimore County MD, Carroll County MD, Charles County MD, Harford County MD, Howard County MD, Washington Suburban Sanitary Commission MD, MA DOT, MI DOT, MS Certificate of Responsibility, MS DOT, MO DOT, Metro St. Louis Sewer District, NE, NH DOT, NJ Public Work Contractor NJ DOT, New York, NY, DOT, NC General Contractor, NC DOT, OH DOT, City of Columbus, OH General Contractor's License, City of Columbus, OH Sewer Contractor License, OK DOT, PA DOT, Pittsburgh Water and Sewer Pittsburgh, PA, SC General Contractor, SC DOT, TN General Contractor, TN DOT, TX DOT, VA General Contractor, VA DOT, WA DC General Contractor, DC Water, WA DC, WV

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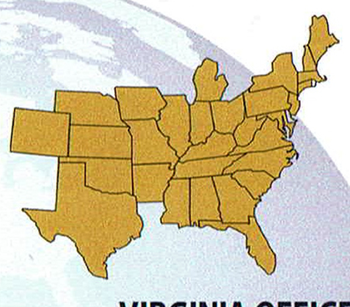

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PROSHOT CONCRETE INC

SHOTCRETE CONTRACTORS & ENGINEERS

CULVERT REHABILITATION

www.proshotconcrete.com

ADVANTAGES OF SHOTCRETE CULVERT REHABILITATION

- New shotcrete mix designs can produce 8,000 psi compressive strength and greater structural integrity
- The smooth interior of a Shotcrete lining improves flow by reducing the roughness (Manning's) coefficient
- No excavating or trenching
- No major disruption to traffic, business, etc.
- Eliminates the potential for settlement damage on roads and easements
- Repair without interfering with existing utilities
- Extremely cost effective
- Can be used in any shape — circular, oval, arch, square, symmetrical, or asymmetrical
- Wide range of existing pipe types and diameters are possible to repair
- Environmentally friendly; special wetland permits are not required
- Flood studies do not have to be performed

Corrugated metal pipes were not meant to last forever. With the deteriorating effects of weather, scouring from sand and debris, and the propensity to rust and buckle; 20 to 30 years is a metal pipe's estimated lifespan. Shotcrete can be used for the structural renewal of culverts without excavation, aboveground bypassing, traffic detours, repaving, or flooding.

Replacement options often include digging, (with its unavoidable disruption to traffic and daily routines), expensive cured-in-place liners, or slip lining, (with reduced flow capacity). Shotcrete creates a new, structurally sound concrete pipe inside the old one. This new pipe is not only environmentally sound, it provides highly effective corrosion protection that can add over 50 years to the life of the pipe. This rehabilitation process improves water flow by reducing the roughness coefficient.

HOW IT WORKS

Shotcrete is designed for corrosion protection and complete structural renewal of culverts between 36" and above in diameter. The process begins with an engineer's inspection of the pipe to be repaired. The engineer then considers the depth and size of the pipe, depth of the local water table, point load and transfer load, and other factors to determine the thickness of the shotcrete application.

PROSHOT CONCRETE PROVIDES A WIDE VARIETY OF SERVICES

- CULVERT REHABILITATION
- SHOTCRETE SEWER LINING
- BRIDGE REPAIR AND MAINTENANCE
- DITCH PAVING
- SLOPE STABILIZATION
- RETAINING WALL AND PIER REPAIRS
- WASTE WATER TREATMENT PLANT REHABILITATION
- DAM AND RESERVOIR RESTORATION

Preparation begins by stopping or diverting the water flow. This allows gravel, mud, roots, and other debris to be removed. Once the debris is removed, the interior is thoroughly scoured with a high-pressure washer. If buckling, leaks or voids have occurred in the existing pipe, stabilization repairs are made. The shotcrete application can be flat or contoured to the pipe's radius in order to enable flow. The shotcrete is pneumatically applied around the interior of the pipe to the thickness predetermined by the engineer, leaving behind a high-strength, fully structural pipe.

Shotcrete has a 50 year service life.

Shotcrete produces a material that exhibits superior hardened properties to high quality conventional concrete such as high strength, low permeability and high durability.