



ITL Reinforced Concrete Roll®

ITL RCR® In Action

LONG TERM SOLUTION FOR A WASHED-OUT DITCH USING RCR® REINFORCED CONCRETE ROLL® IN CHATTOOGA COUNTY GEORGIA



With the heavy rains there have been issues with ditches washing out (Upwards of 5'W x 3'D) that are in need of a long term solution. The following is what was done in a small town in Georgia using ITL RCR® Reinforced Concrete Roll®.



For many years the Department of Public Works would have to go in and build-up this 850' long ditch after any heavy rains. This of course was very costly due to several reasons including labor, machinery, material and of course having the road shut down. Because of this road being used by school buses, as well as local traffic, it had to be taken care of right away every time there was a heavy rain.



STRONG & VERSATILE

ITL Reinforced Concrete Roll® is a dry powdered cement mix that is needle-punched between two sheets of non-woven polypropylene. When rolled out and hydrated, ITL RCR® takes shape into a durable structure suitable for reinforcement or protective lining.

REDUCE CARBON FOOTPRINT

ITL Reinforced Concrete Roll® is a friendlier solution to conventional erosion control methods such as traditional concrete, shotcrete, grout blankets and riprap.



The RCR® material was unrolled and cut to size by using a utility knife. After the RCR® material was cut to size, it was slid into position by hand and pinned into place. This was done by driving rebar pins with plates welded to the top into the bank.



The total install of approximately 850 FT. of ditch was lined in 1 day. That even included the customizing of the RCR® to the existing culverts.



Having all the RCR® in place water was brought in for hydration of the product.

At this point the work with the RCR® was complete and the customer decided to put a new top on that section of the road. This served the purpose of attaching the road side of the product and giving it a very good transition.



The next day the rains came again and the RCR® material carried the water as expected.





The County of Chattooga in Georgia will save several thousands of dollars in reconstruction cost in the next several years. The RCR® material comes with a 30 year manufacturer's warranty and has a life expectancy of 50 years. The RCR® is considered a GREEN solution due to less disruption to the environment, less labor, less prep work, and less resources used over traditional concrete.

It is highly recommended that you add up the total cost, including the aggravation, caused by this reoccurring situation. Then, take into consideration the savings and ease of installation using ITL RCR® Reinforced Concrete Roll®.

Thank you

Matt Willis

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