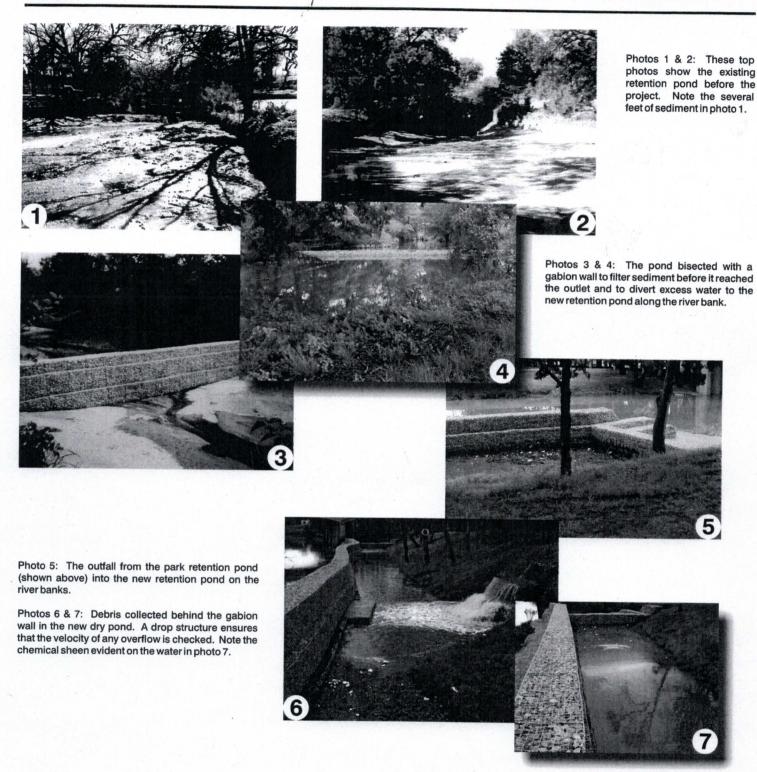


MODULAR GABION SYSTEMS



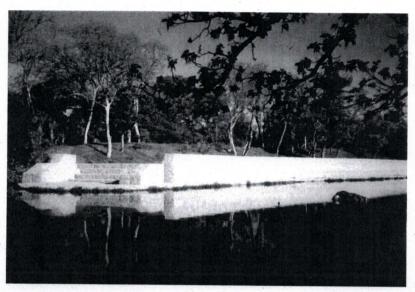


MODULAR GABION SYSTEMS

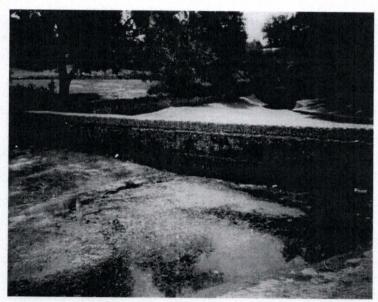
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MODULAR GABION SYSTEMS



A new retention pond on the banks of the Concho River is formed behind this Modular Gabion Systems gabion wall.



An existing stormwater/urban runoff retention pond is bisected by a gabion wall to reduce sediment collection at the outlet and divert water into the new retention basin on the river bank.

Location:	Concho River, San Angelo, Texas
Contractor:	Regency Construction
Engineer:	SK Engineering
Specifier(s):	City of San Angelo
	Upper Colorado River Authority
Project Date:	

Project Notes:

This project addressed poor water quality in the north fork of the Concho River, a tributary of the Colorado River, downstream from the O. C. Fisher Reservoir. Construction of this reservoir in 1952 reduced scouring flows and virtually eliminated flooding along the Concho, however since the 1970s the river has been burdened with urban runoff and non-point source pollution causing fish-kills and foul odor.

The Concho River project consists of two gabion structures constructed at a primary watershed. The secondary structure is a gabion wall which bisects an existing retention pond in a downtown San Angelo park. This ½ acre retention basin, which probably dates to the 1930s, had been known to collect 2-4 feet of sediment annually. This sludge diminished the treatment effectiveness of the pond and, when discharged under heavy water flows, it threatened water quality in the river. Construction of the gabion wall created a filter to remove much of the sediment before it reached it the outlet of the pond and allowed some of the water to be diverted to the second pond created behind the primary gabion structure built directly on the river bank to maintain normal water levels in the pond.

The primary BMP structure is a gabion wall and drop structure constructed immediately along the river, creating a new retention pond along the banks. Water is discharged into this pond from the retention basin in the park and seeps through the wall into the river. The gabion wall traps sediment and "floatables" before they can reach the Concho and the debris is removed by city crews.

Reference: North Concho River, Urban Runoff/Non-Point Source Abatement Master Plan and Demonstration Project Final Report. Contract Number 52000000021. Prepared by the UCRA, November 1999.



Final Report

Prepared by the



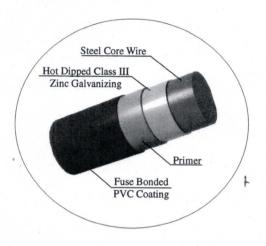
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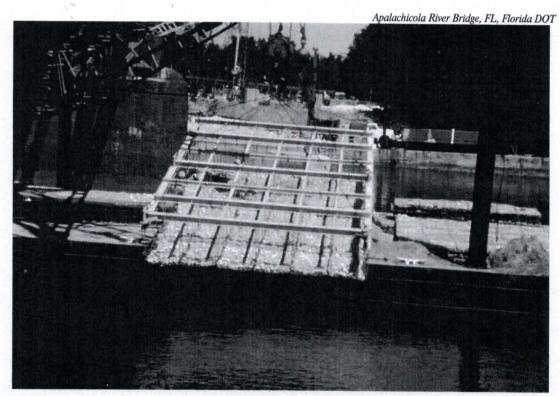
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George Ragazzo, G. M.

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LACING WIRE . THE PRICES ARE FIRM FOR 30 DAYS FROM THE QUOTE DATE.							SIGNATURE:			

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