Pantano Wash Bank Protection and River Park: Fort Lowell to Tanque Verde Road

CULVERTS and SCUPPERS

To maintain a safe river park and pathway, storm-water that collects behind the soil cement bank is drained using box culverts, concrete pipe culverts or concrete scuppers. Construction of the culverts and scuppers typically follows the completion of the bank protection and is completed before other river park amenities in order to limit disturbance and regrading.

CULVERTS

The soil-cement bank protection is notched out and wood forms are install for the construction of box culverts at major drainage collection points.

Concrete culverts are installed to handle smaller flows.
Backfilling over a culvert with soil cement.

Completed culvert installation
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CULVERTS and SCUPPERS

Headwalls are construct to guide flows into the culverts.

Some location require construction of a drop inlet to collect the storm-water.
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CULVERTS and SCUPPERS

Rebar steel reinforcement is used to build the concrete drop inlet structure.

Drop inlets are then formed and concrete is poured into the form.
Forms are remove, soil is backfilled and a grate is installed to cover the drop inlet.

**SCUPPERS**

Drainage scuppers are small channels cut into the top of the bank protection to direct storm-water into the main wash.
Rebar reinforcement steel is used in the concrete cap cover for the scupper.

Removal of formwork of scupper cap.
CULVERTS and SCUPPERS

Scupper and inlet are nearly complete.

After paving and landscaping, the scupper blends into the background.

Please see the Rosehill Wash Pedestrian Bridge, Ecosystem Restoration, Mitigation and Preservation and Irrigation and Landscape Planting packets for more information on other related aspects of the river park.