

# APM

## CLIENT

World Wildlife Fund  
Ms. Hermione Phillips  
202.495.4582

## ACCREDITED GREEN ROOF PROFESSIONAL

Advanced Project Management, Inc.  
Mr. Michael Catlett  
703.263.3100

## ARCHITECT

Envision Design  
Ms. Diana Horvat  
202.775.9000

## GENERAL CONTRACTOR

Prospect Waterproofing Company  
Mr. James N. Stamer  
703.450.2355

**\$1.2 MILLION MASTER BUDGET**

**LEED-EB BUILDING OBJECTIVE**

**5 MONTHS OF CONSTRUCTION**

**26,000 SF**

**RETRO-FIT EXTENSIVE GREEN ROOF SYSTEM**



## World Wildlife Fund Extensive Green Roof System Washington, D.C.



World Wildlife Fund's mission is protecting the future of nature and is committed to promoting sustainable approaches of the use of renewable natural resources, and is dedicated to environmentally sensitive construction. As part of their LEED Platinum Program for their existing building, APM was called on to develop one of the larger green roofs in the Washington D.C. Area.

- The project's largest challenge was developing a cost effective Green Roof on the existing building. APM analyzed a number of options including Semi Intensive Green Roofs requiring roof reinforcement, rain water harvesting systems, supplemental solar power arrays with under-array plantings, and the planting of summer grasses that would maximize rain water collection and CO<sub>2</sub> sequestration. Careful analysis of these objectives demonstrated that the value of a Semi Intensive Roof applied to other WWF programs could better impact nature and serve society if applied elsewhere and more modest goals were then set for the Green Roof on the existing building.

- The final solution called for a design/build approach of an Extensive Green Roof system with water retention mat and up to 7" of plant medium with a detailed planting plan using drought resistant plantings to enhance the character of the roof. This solution maximized not only the LEED points for the building's USGBC LEED EB Platinum program, but maximized the mitigation of storm water run off and reduced the first flush impact on city storm sewers. In addition, deeper than required plant medium will induce greater CO<sub>2</sub> exchange, thus enhancing carbon dioxide sequestering.

- Current Status: Construction Completed Spring 2010.

