



Media Advisory

U.S. General Services Administration

June 23, 2010

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An Inside Look at the Bayh Recovery Act Project

A narrated tour on June 28 will give print and broadcast media a first-hand look and interview opportunities to report on how the American Recovery and Reinvestment Act is updating and preserving the century-old Bayh Federal Courthouse -- and creating jobs.

Highlights of the tour will show ways that green technology and energy saving systems will become part of the modernized building:

- A green roof that helps keep the building cool and adds oxygen to the air.
- A system that harvests rain run-off to conserve use of city water.
- Digital controls that adjust five floors of air quality with fine-tuned precision.

There will also be a rare, cameras-allowed stop inside a still very active 100-year-old courtroom.

The tour will begin at 10 a.m. Monday at the courthouse west entrance (Ohio and Meridian). Project managers, architect/engineers and suppliers will be available for interviews. Cameras will be allowed in designated areas on the tour. Photo ID will be required.

Reservations will help assure best accommodations. Please call (317) 423-6266 and leave your news organization's name and the number of persons covering the tour.

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Fact Sheet

U.S. General Services Administration

June 28, 2010

Summary

Recovery Project at the Birch Bayh Federal Building and U.S. Courthouse

Purpose: To create jobs and install high-performance “green” technology in an effort to improve the local economy and increase the sustainability of government owned buildings.

- Workers from all trades will spend nearly three years installing high-performance green technology upgrades into the century-old Bayh building.

Impact: Some measures of the project’s impact:

- Insulators, bricklayers, carpenters, cement masons, electricians, laborers, operators, pipefitters, painters, sheet metal workers, and sprinkler fitters will all be working on this project.
- At peak construction there will be approx. 120 on-site workers.
- 19 prime contractors are involved in the project.

Facts:

- \$69 million overall project cost.
- 32 month project: January 2010—August 2012

**Key
Players:**

- | | |
|--------------------------------------|------------------------|
| • International Piping Systems, Inc. | • Indy Steel |
| • Environmental Assurance Company | • Terstep |
| • Barth Electric | • Strewsberry |
| • Artisan Construction | • McCammack |
| • Blackmore & Buckner Roofing | • RTB |
| • Valor Field Services | • Decco |
| • Gibson Lewis | • Jack Laurie |
| • Conner and Company | • Davis and Associates |
| • Performance Contracting | • Ryan Fire Protection |
| • LAForce | |



Fact Sheet

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Green Roof

Recovery Project at the Birch Bayh Federal Building and U.S. Courthouse

Purpose: The green roof will combine the installation of a vegetative roof and white, reflective roof to help maximum building efficiency while testing new methods of sustainability in GSA buildings.

- The 30,000 sq. ft. vegetative roof is made of drought-resistant plants that are designed to reduce rain run-off, insulate the building, and produce oxygen.
- The white, reflective roof rejects solar radiation that would normally be absorbed by a black asphalt roof reducing both temperature impact on the building and the city of Indianapolis.

Impact: Some measures of the project's impact:

- Vegetative roof retains up to 15% of storm water received helping to prevent flooding in the city.
- Project reduces the heat island effect in the city of Indianapolis by 1.2%.
- New vegetation increases habitat within the city

Facts:

- Doubles the life of the roof by protecting it from damaging UV rays.
- Adds as much oxygen to the air as 18 trees.
- A mix of six to ten types of sedums, grasses, and perennials will be planted.
- Takes 2 years to fully grow.
- Does not require mowing or trimming.
- Covers nearly 70% of the roof.
- The vegetative roof is one of four in downtown Indianapolis.

Key

Players:

- **Shiel Sexton**
- **LLC a Tecta America Company**
- **Blackmore & Buckner Roofing**



Fact Sheet

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Fire Protection

Recovery Project at the Birch Bayh Federal Building and U.S. Courthouse

Purpose: The fire protection system is being extensively expanded to provide coverage to all offices and courtrooms. Sprinkler pipes and heads will be installed along with a new voice alert system.

- More than 10 miles of sprinkler lines and 3,500 heads will be installed to provide 6 times more coverage to the building.
- The large coverage area makes this one the most labor intensive parts of the project.
- Special care is being given to preserve the historic décor.

Impact: Some measures of the project's impact:

- The new system will improve life-safety by 74%.
- Property loss will be dramatically reduced.
- The voice alert system will provide clear instructions to tenants as to what steps to follow in an emergency.

Facts:

- 29,000 ft. of copper pipe, 14,000 ft. of carbon steel pipe, and 17,600 ft. of cast iron pipe make up the more than 10 miles of pipe for this project.

- Coverage is being expanded from 15% of the building to 100%.
- When original constructed in 1905 the building's only fire protection came from the fire department using horse drawn wagons.

Key Players:

- Shiel Sexton
- Ryan Fire Protection, Inc.



Fact Sheet

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Building Automation System

Recovery Project at the Birch Bayh Federal Building and U.S. Courthouse

Purpose: A major part of the Recovery Project at Birch Bayh will include installing a centralized control system to monitor and make adjustment to the building's conditions.

- The Building Automation System (BAS) will optimize air quality by controlling temperature, airflow, air pressure, and humidity.
- The BAS also monitors and controls select components including fans, dampers, pumps, and valves. This determines if all are working properly and at the right capacity.

Impact: Some measures of the project's impact:

- Goal: 10% energy savings.
- Up to 30% possible energy savings.
- The project will provide jobs for workers in the carpentry, mechanical, electrical, plumbing, asbestos abatement, and roofing trades.

Facts:

- The new system measures air temperature, airflow, differential air pressure, humidity, carbon dioxide, supply air smoke detector, fan status, damper status, zone temperature, freeze stat, water temperature, water pressure, pump status, valve status, and steam pressure.
- The BAS has over 3000 points of control providing access to 30 systems from one computer. 1 keyboard versus 300 radiator adjustments.
- The project involves upgrading some of the building's 40 year old heating and cooling components
- The entire cooling system is being replaced as part of the project.

Key

Players:

- Shiel Sexton
- E-Solutions, Inc.
- International Piping Systems, Inc.



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Water Harvesting

Recovery Project at the Birch Bayh Federal Building and U.S. Courthouse

Purpose: The water harvesting system will utilize rain water from roof run-off to supply plumbing fixtures throughout the building.

- Roof drain will pipe water down to five 2,000 gallon holding tanks.
- Collected water is filtered and piped to public toilets and urinals throughout the building.
- The system will work with low-flow toilet fixtures that will require less water.

Impact: Some measures of the project's impact:

- System can save up to 10,000 gallons of potable water from being used.
- Prevents flooding by diverting water from the city's waste water and storm water systems.
- Goal: Reduce building's city water use by 20%.

Facts:

- The project involves installing a new center drain on the roof of the building.
- 1,654 ft. of pipe will be installed to connect roof drain to sub-basement holding tanks.
- On average low flow toilets require 1.6 gallons of water per flush versus the 3.5 gallons that traditional toilets use.

Key

Players:

- **Shiel Sexton**
- **International Piping Systems, Inc.**
- **Wahaso Water Harvesting Solutions**