

# The Rockpile

## OLD WORLD STONE LTD.

Fabricators of Dimensional Cut Stone

04400/OLD

Spring 2006



### Jackson Place Facades Restored Washington D.C.

#### Inside this issue:



Photo by Gatewood Design Works

Old World Stone was pleased to provide custom dimensional cut stone for the restoration of these converted historic government offices dating from the 1850's. There were six adjacent facades in the project, each requiring detailed analysis and individual attention. The White House Historic Preservationist, General Services Administration supervised the project. The replacement red sandstone was St. Bees from England. Local contractor, Professional Restoration, Inc. provided the on-site restoration and stone installation. Gatewood Design Works, Medina, OH expertly completed the field dimensions and shop drawings. Replacement stone included new landings, thresholds, treads, stringers, balusters, ramp & twist handrails, and newel posts, which accurately replicated the missing or damaged originals.

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### One-of-a-Kind Oakville Residence

The owners of this unique residence have created a private retreat on the shores of Lake Ontario. The cut stone is Indiana buff limestone. Several original carvings were created to embellish the property. The infill stone is "5 point" rock-faced ashlar utilizing a combination of grey and buff Indiana limestone. Extensive paving, curbing and coping creates a multi-tiered patio and waterscape feature.

The stone on the house was installed by Mario Rotundo Stone & Masonry, Concord, ON



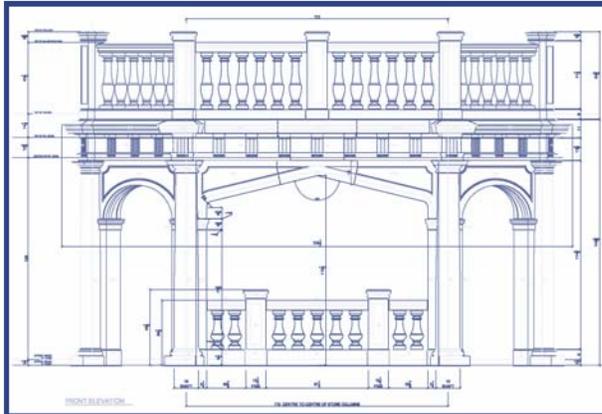
#### Upcoming Trade Shows & Conventions

- Traditional Building Show April 5 - 8 Chicago, IL
- Victoria Mansion Sandstone Symposium May 13 Portland ME
- Building Stone Institute Designer Education Series Limestone Restoration July ? Washington D.C.
- Association for Preservation Technology, APT Sept. 13 -16 Atlanta, GA
- Sealant, Waterproofing & Restoration Institute, SWRI Fall Technical Meeting Sept. 17-20 Montreal, QC



## In the Works: Two Porte-Cochères Add Elegance to a Toronto Residence

**Porte-cochère:** A covered porch large enough for wheeled vehicles to pass through. The team at Old World Stone are working with Toronto based Dinel Design to detail and fabricate these elaborate assemblies. The stone is Indiana buff limestone. The turned columns are over 10 feet in height and 17 inches in diameter. Picco Engineering, Concord, ON are designing the anchoring system to support the coffered stone ceilings. The fabrication is being fast-tracked to be complete by the end of April. Installation will be done by Mario Rotundo Stone & Masonry, Concord, ON commencing early in the spring.



## Tools of the Trade - Dampproofing

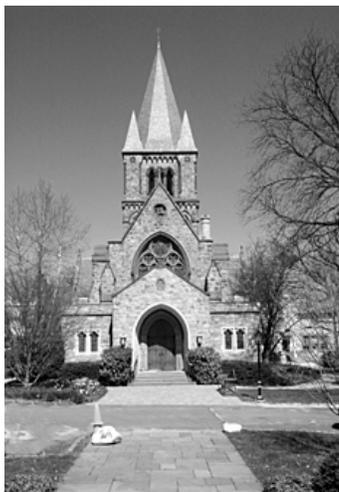
### DID YOU KNOW?

Weser sandstone from Germany is 200 million years old!

Indiana limestone from the USA is over 300 million years old!

Dampproofing is the application of a coating or membrane to stop the migration of moisture between adjacent building materials or from ground water. Stone must be isolated from sources of high alkalinity and soluble salts to avoid staining. Direct contact with Portland cement, concrete, concrete blocks, and garden fertilizers are all sources of contaminants to be avoided, or permanent staining may result. Stone which is constantly saturated by rising damp is subject to accelerated rates of decay such as spalling, particularly during extreme thermal cycles. Coating of the stone on all unexposed surfaces with a cementitious waterproof or bituminous material should be completed in the field

and allowed to fully cure prior to installation. A plinth course of a dense stone such as granite or slate will also help to prevent rising damp from reaching the overlying courses. Lead sheet is traditionally used for this purpose in monumental work. Installation of setting mats or pedestals for pavement installation will allow air movement beneath the pavers and prevent saturation. Coatings or flashings on the supporting angles, concrete ledges, and bearing surfaces can also help to prevent migration. Some dampproofing materials may compromise mortar adhesion. Proper detailing and placement of the coatings and anchors must be specified.

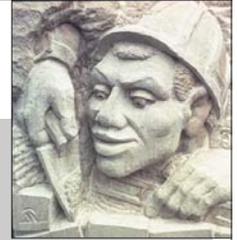


## Trinity Episcopal Church, Princeton NJ Revival in Red Sandstone

This spectacular church was built in 1868 following the Gothic and Romanesque Revival style interpretations of Richard M. Upjohn, Architect. Ralph Cram, another important American architect completed a major renovation in 1914-15.

The church is currently undergoing a major restoration which includes extensive replacement of modern precast concrete with more durable natural stone. Weser red sandstone, quarried in Germany, is a near perfect match

for the building. Fabrication is currently underway at Old World Stone. Window mullions, band courses, copings, springers, arches and sills totaling an estimated 30 tonnes will soon be delivered to the site. SWR Institute member, Elite Restoration of West Chester, PA are in charge of the project. The Architects/Engineers are Simpson Gumpertz & Heger, Inc. Proper detailing and quality control will ensure that the rebuilt elements will last for generations to come.



## Plant News - Monoblade Frame Saw

Our Italian built Monoblade Frame Saw is the first saw used in the fabrication process. We use it to cut quarry blocks of limestone and sandstone shipped from around the world. The blocks can weigh in excess of 10 tonnes. This reciprocating saw is capable of slicing blocks measuring up to 11 feet in length by 6 feet in height. The blade measures almost 12 feet long and is capable of running at a speed of 160 strokes per minute. The speed is adjustable depending upon the type of stone. The saw can cut through a 6 foot high block in approximately one hour and is used 8 to 12 hours per day. The saw blade has diamond tipped teeth that bite through the stone. The tips can be replaced as they wear. Just like all saws in our plant, water is used to keep the blades cool and reduce dust while cutting. The slurry settles in holding tanks and the water is recycled.

The Monoblade is one of our primary saws that slabs stone into pre-programmed thicknesses. The stone then moves along the production line to other saws and fabrication equipment in the plant.



To see the Monoblade in action visit our web site at [www.oldworldstone.com](http://www.oldworldstone.com) and take a virtual plant tour.

*The working men,  
whate'er their task,  
To carve the stone or  
bear the hod.  
They bear upon their  
honest brows  
The royal stamp and  
seal of God:  
And brighter are their  
drops of sweat  
Than diamonds on a  
coronet.*

*Author Unknown*



"Indiana limestone is a sedimentary formation, but the deposition of the minute calcareous seashell is so uniform that no weak cleavage planes occur in the material. It can be machined or cut in any direction without danger of splitting. However, because it is a sedimentary rock, it does have a grain running horizontally in the deposit."

**Indiana Limestone Institute of America**

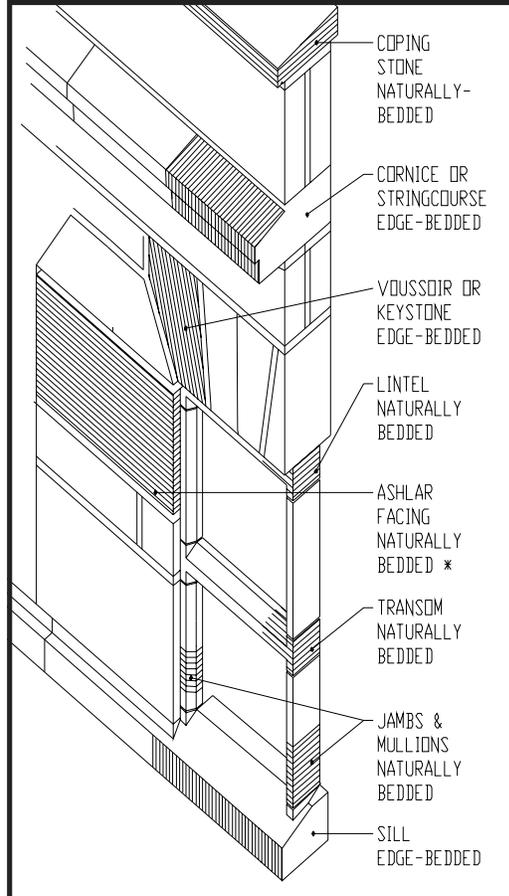
## Ask a Designer - Bedding Planes in Sedimentary Rocks

Limestone and sandstone are sedimentary rocks. The unique feature of sedimentary rocks is its bedding or stratification. Each bed is the product of a single episode of sedimentation. These layers differ slightly from one another and form a plane of separation. Soft layers of clay or organic matter create weakness in the strata.

Most sedimentary rocks consist of sediments laid down on the sea floor, and thus, the bedding is essentially horizontal. However, some deposition can result from wind blown or deltaic environments and the bedding is often angled or wavy. In some stones the bedding is immediately apparent, but in stones taken from rocks which are massively bedded, the bedding direction may be difficult to determine.

A block of stone can be placed in a building in one of three attitudes in relation to the bedding: naturally bedded, face bedded, or edge bedded. To maximize durability of the stone, the thrust on the stone should be at right angles to the bedding. Incorrectly placed stone may delaminate or waste away very quickly. Stones which are quarried in shallow beds may not be available in sufficient coursing heights and compromises may be necessary or an alternate material may be recommended.

\* Indiana limestone is commonly face bedded when used as ashlar. This provides a more uniform coloration without detracting from its weathering characteristics.



### WHO'S WHO

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## The Tradition Continues...

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To find out more about the content of this newsletter or about our company please fill out the form below and fax back to us. We will promptly respond to your request. Thank you for your interest.

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|---|--|
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