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<u>Proposal</u>

Martin Grasso Superintendent River County School District 4115 Parkview Drive Rushing Springs, MO 60200

Mr. Grasso,

Please find enclosed our preliminary ideas for the new Wild Creek Middle School building.

We're excited to present a plan for a new building that is nothing like traditional school buildings. We've used only the most modern design techniques to create a plan for a flexible, state-of-the-art building that will serve generations of children and teachers.

We realize that this is only the first step in your building approval process and so our concepts are drawn with broad strokes at this time. If you get as excited about our design concepts as we are, we would be pleased to put together a detailed plan with specific costs, schedules, and lists of subcontractors.

Sincerely,

Francis Wright
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# Wild Creek Middle School Architectural Design

Prepared for: Martin Grasso

Superintendent

Prepared by: Francis Wright

**Green Projects Lead** 



Concepts	2
Environmental	4
Flexibility	6
Materials	8
Security	10



The plans presented in this proposal are based on the following concepts, which will govern Ground Breaking Construction, Inc.'s strategy in completing this project.

#### Design for eco-friendly materials and methods

We plan to use the most environmentally sound materials we can find to build this school. In the past, schools have had problems with chemically sensitive individuals becoming sick from off-gassing of various commonly used wall and floor coverings. Our building will have no such problems.

This concept will affect Ground Breaking Construction, Inc.'s strategy in the following way: We will use non-toxic, eco-friendly insulation, wall coverings, and floor treatments. We will hire subcontractors familiar with the installation of these materials and who have pledged to use green building practices. See the Materials page for more details.

## Design for minimum impact and resource use

We want this building to be a model of environmental protection and resource conservation.

This concept will affect Ground Breaking Construction, Inc.'s strategy in the following way: We will position the building and solar panels and skylights to make the best use of patterns of daylight. We will incorporate solar water heating and electrical panels into the roof structure, use the most modern energy-conserving electronics where possible, and use a recirculating system for gray water in restrooms and landscape watering systems. The existing large trees on the property will be saved whenever practical and the creek will be preserved and protected. See the Environmental page for more details.

## Design for maximum flexibility

The most often cited reason for abandoning a school building is that it cannot be remodeled to fit modern needs. We are designing for maximum flexibility up front, which should make this building meet the community's needs for decades to come.

This concept will affect Ground Breaking Construction, Inc.'s strategy in the following way: Our building will have few permanent walls and fixtures. Instead, we will construct a light, bright shell inside of which walls, desks, and cabinets can be easily moved to create different spaces as needed. See the Flexibility page for more details.

## Design for security

Unfortunately, security is an issue we need to address to keep our children safe today. There have been problems in older school buildings and campuses with strangers entering the setting and with students entering with weapons. We will address both these issues.

This concept will affect Ground Breaking Construction, Inc.'s strategy in the following way: All exterior and interior classroom doors will have secure programmable card reader locks, and a modern alarm system will be available to all staff. See the Security page for more details.



We are committed to making this school building a model of environmental conservation and energy efficient design. Following are a few key points about how we will achieve these goals.

## Building Location

Rather than locate the building parallel to the street, we have angled it to take full advantage of the movement of the sun. This allows us to maximize the efficiency of our solar roof collectors and to use fewer lights and less heat during daylight hours.

#### Site Preparation and Preservation

The school site is partially wooded and contains a natural stream through which salmon migrate during the summer. We will carefully preserve the majority of the big trees, and create a tunnel under which the stream can flow beneath the building. Note that the stream is a feature of our landscaping and it will be protected from parking lot or roof runoff.

The site contains several mature apple, pear, and cherry trees (an old orchard), which will be preserved in the northwest corner. Note that our landscape plans include a garden area adjacent to the orchard that can be used to grow fresh vegetables for cafeteria use or for sale.

#### Efficient Water Usage

Toilets and showers installed will be the latest water-conserving models. Gray or 'used' water from restroom and cafeteria sinks and showers will be routed to temporary storage tanks that will supply toilets and our landscape watering system.

#### Rooftop Solar Water Heaters

Solar water heat systems are located above each restroom and gym shower room and the cafeteria food preparation rooms. These should provide most of the heat needed for our hot water usage, although water temperature will be controlled by on-demand heaters that will provide additional heat as needed.

#### Rooftop Solar Electrical Panels

Much of the roof space on our building will be occupied by solar electrical panels. We expect to generate most of the school's electricity this way.

#### Skylights and Windows

Our hallways and classrooms will be lit mostly by natural light from high windows, glass brick in the exterior walls, and skylights, substantially cutting down on the need for electric lighting. All windows and skylights will be triple-paned and have thermal shades that can be drawn if light is too bright or hot.

#### Permeable Parking Areas and Walkways

Our parking areas and walkways will be covered with patterns of permeable brick and crushed rock, not with impermeable surfaces such as asphalt and cement. This will protect our stream from toxic runoff, protect the property against flooding, and will also lower the school's tax bill as our county taxes the square footage of impermeable surfaces.

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