
RESOLUTION 08-164

**THE OHIO SCHOOL FACILITIES COMMISSION
NOVEMBER 20, 2008**

**ADOPTING AN ADDENDUM TO THE 2008 OHIO
SCHOOL DESIGN MANUAL TO PROVIDE FOR SOLAR
READY SCHOOLS**

WHEREAS, the 122nd Ohio General Assembly established the Ohio School Facilities Commission (Commission) under Chapter 3318 of the Ohio Revised Code (ORC); and

WHEREAS, in accordance with Chapter 3318, ORC, the Commission is granted authority to administer programs and distribute funds appropriated by the General Assembly for construction of new school buildings, reconstruction and renovations of existing school buildings; and

WHEREAS, the Commission was required in section 3318.04 of ORC to establish plans and materials for classroom facilities; and

WHEREAS, the Commission adopted the original Ohio School Design Manual completed November 1, 1997; and

WHEREAS, the Ohio School Design Manual is a dynamic guideline setting forth a comprehensive listing of standards in the design of school facilities and is periodically updated; and

WHEREAS, at its June 26, 2008 meeting, the Commission approved the 2008 Ohio School Design Manual Update which included LEED for Schools standards; and

WHEREAS, the 127th Ohio General Assembly enacted Amended Substitute Senate Bill 221 which became effective July 31, 2008 and which calls for the Commission to prescribe standards for solar ready equipment in school buildings where "solar ready" means capable of accommodating the eventual installation of roof top, solar photovoltaic energy equipment; and

WHEREAS, the Commission has determined that it is advantageous to amend the 2008 Ohio School Design Manual Update to provide for solar ready schools.

NOW, THEREFORE BE IT RESOLVED THAT:

1. The 2008 Ohio School Design Manual Update is amended to incorporate the November 20, 2008 addendum memorandum for requirements and guidelines for solar ready schools.
2. The Commission authorizes and directs the Executive Director to propose and file administrative rules prescribing standards for solar ready equipment in school buildings.

In witness thereof, the undersigned certified the foregoing Resolution was duly adopted at an open meeting held on November 20, 2008, by the members of the Ohio School Facilities Commission.



J. Pari Sabety, Chair



School Facilities Commission

Ted Strickland, Governor
Michael C. Shoemaker, Executive Director

MEMORANDUM TO: All Interested Parties

FROM: Michael C. Shoemaker, Executive Director

DATE: November 20, 2008

SUBJECT: Addendum to the 2008 Ohio School Design Manual
to Provide for Solar Ready Schools

This memorandum provides requirements and guidelines for solar ready schools and is an addendum to the 2008 Ohio School Design Manual.

Roof Space and Shading Requirements

The designer shall designate areas on the roof plan that are suitable for future solar photovoltaic installation where the roof area remains free of shade from 9:00 am to 5:00 pm solar time every day. No obstructions shall exist on the roof within the designated solar area. Obstructions to the south, east or west of the designated solar area shall be limited in height to avoid shading the area. To the extent possible, any equipment, pipes, conduit and vent stacks should be located north of the designated solar area.

Select tree species and planting locations so that the mature trees will not shade roof areas that are suitable for solar installation.

Structural Requirements

New roof structures should be designed to anticipate a future additional dead load in areas suitable for solar photovoltaic installation. The designer shall seek direction from the school district on design parameters for future photovoltaic installation. In the absence of specific direction, the designer may assume that the photovoltaic panels are mounted parallel to the roof slope.

Electrical System Access

Provide an adequately sized chase from the main electrical room, electrical service closets and the mechanical room to the roof if the building is multi-story. Locate the electrical room on an exterior wall (north side preferred) or plan for shading an adjacent exterior electrical equipment pad. Indicate on the site plan a 10' by 10' area reserved for a future outdoor pad for electrical equipment adjacent to the electrical equipment room.

Optional: Reserve 6 linear feet of wall space adjacent to the main electrical panel for future installation of inverters.

Building Massing and Orientation

If new building massing is dominantly rectangular, it is preferred to orient the long axis to the east–west cardinal points.

Waiver

The provisions for solar readiness may be waived by the Commission when the building is shaded, or will be shaded, or when other conditions exist that make use of the roof area for solar energy production impractical. Requests for waiver shall be submitted to the variance committee.