

# JUST THE FAQs

questions we made up about  
... MASONRY

## Changing Masonry Standards

### Part 3: Standard Details

Answer provided by Daniel Zechmeister, P.E., AIA Detroit Honorary Affiliate, who is Executive Director of the Masonry Institute of Michigan ([www.mim-online.org](http://www.mim-online.org)).

This article is part of a series on Masonry Standards provided by the Masonry Society (TMS). Part 1 (Special Inspections) ran in the May 2011 issue of STRUCTURE magazine. Part 2 (Grouting Options) ran in August, 2011.

### Question

*I am looking for good details for single-wythe and cavity walls for use in our design office. Where would I find some standard architectural details? What master specification would you recommend?*

### Answer

One source of good working architectural details is from the Masonry Institute of Michigan (MIM). In 1995, the MIM established a committee, the Generic Wall Design Committee, to develop generic masonry wall details. The primary goal of the committee was to create "user friendly" masonry details for the design and construction community. The strength of the committee is in its makeup which consisted of a diverse group of individual architects, engineers, mason contractors, suppliers and consultants. The goal was for economical, functional and feasible masonry details to complement masonry's already inherent

quality as a durable building material. In the beginning, the generic wall

designs focused on provisions to minimize and control rain penetration. The committee agreed it would be a "living document" and, as such, when other issues became pertinent the committee would be ready to address them. Currently, the committee is looking at masonry wall envelopes containing four (4) control layers; 1) rain, 2) thermal, 3) air and 4) vapor. The following masonry details are now available at [www.mim-online.org](http://www.mim-online.org):

- 1) **8-inch CMU Single Wythe Loadbearing Walls** (updated 1/25/2010) – This design is of a single wythe, hollow, loadbearing, 8-inch concrete masonry unit wall. Typical details consist of a wall section, base detail, short span lintels, long span lintels, sill details, two piece flashing details, parapet detail, control joint details, slip plane at masonry lintels, slip plane at steel lintel, and reinforced masonry openings.
- 2) **12-inch CMU Single Wythe Loadbearing Walls** (updated 1/25/2010) – This design is of a single wythe, hollow, loadbearing, 12-inch concrete masonry unit wall. Typical details consist of a wall section, base detail, short span lintels, long span lintels, sill details, two piece flashing details, parapet detail, control joint details, slip plane at masonry lintels, slip plane at steel lintel, and reinforced masonry openings.

- 3) **Single Wythe Loadbearing Walls Specification** (updated 4/8/2010) – Masonry construction and materials shall conform to the requirements of *Specifications of Masonry Structures* (TMS 602/ACI 530.1/ ASCE 6) published by The Masonry Society ([www.masonrysociety.org](http://www.masonrysociety.org)), the American Concrete Institute, and the American Society of Civil Engineers, except as modified by this specification.
- 4) **Multi-Wythe (8-inch CMU with Masonry Veneer) Loadbearing Walls** (updated 1/29/2010) – This design is of a multi-wythe, hollow, loadbearing, 8-inch concrete masonry unit wall with masonry veneer. Typical details consist of a wall section, base detail, alternate base detail, short span lintels, long span lintels, jamb and flashing details, sill details, control/expansion joint details, brick expansion joint location details, parapet detail with masonry coping and parapet detail with metal coping.
- 5) **High R-Wall Multi-Wythe (8-inch CMU with Masonry Veneer) Loadbearing Walls** (updated 9/29/2010) – This design is of a multi-wythe, hollow, loadbearing, 8-inch concrete masonry unit wall with masonry veneer. Typical details consist of a wall section, base detail, alternate base detail, short span lintels – windows (using receptors), short span lintels – windows (using strap anchors), short span lintel details – doors, long span lintels, jamb and flashing details, sill details, control/expansion joint details, brick expansion joint location details, parapet detail with masonry coping, parapet detail with metal coping and wall air control layer options and notes.
- 6) **Multi-Wythe Loadbearing Walls Specification** (updated 4/8/2010) – Masonry construction and materials shall conform to the requirements of *Specifications of Masonry Structures* (TMS 602/ACI 530.1/ ASCE 6) published by The Masonry Society ([www.masonrysociety.org](http://www.masonrysociety.org)), the American Concrete Institute, and the American Society of Civil Engineers, except as modified by this specification.
- 7) **Low Roof Details** (updated 12/15/2008) – This design is of a multi-wythe, hollow, 8-inch concrete masonry unit wall with masonry veneer. Typical details consist of a low slope, steep slope (stepped) and steep slope (non-stepped). ■