4”, 6”, and 8” Masonry Wall Detail

- Construction shall comply with the currently adopted International Building Code.
- Walls/fences over four (4) feet require a zoning review and approval.
- Walls/fences not over seven (7) feet shall not require a building review and approval.
- Walls/fences not over four (4) feet shall not require a permit, but shall comply with all building and zoning requirements.
- Separate approval by Regional Flood Control District (RFCD) is required.
- Pima County makes no representations and assumes no responsibility or liability in providing this standard detail. Owners/applicants and professionals using this detail shall assume full responsibility for its design.
- Owner/applicant/builder is responsible for verifying soil conditions at the footing’s bearing surface and is solely responsible for the performance for footing.
- Owner/applicant/builder is responsible for verifying location of property lines. Failure to do so may require the wall to be moved at owner’s expense.
- State statute (ARS 40-360.22) requires that underground utilities be located prior to excavation activities. Information on the presence of underground utilities is available by contacting Arizona Blue Stake.

4” Masonry Wall
Design Requirements
Wind Load: 16 psf, ASCE 7
CMU: f_m = 1350 psi
Mortar: ASTM type S
Reinforcing: f_y = 40,000 psi
Concrete: 2500 psi

6" Masonry Wall

Design Requirements
Wind Load: 16 psf, ASCE 7
CMU: f_m = 1350 psi
Mortar: ASTM type S
Reinforcing: f_y = 40,000 psi
Concrete: 2500 psi

8" Masonry Wall