



CONN ENGINEERING CONSULTANTS, INC.

P.O. BOX 791 • 107 N. BRIDGE ST. • LINDEN, MI 48451 • P: 810.458.4350 • F: 810.458.4592

November 16, 2017

601 E. Sherwood DR.
Williamston, MI

File: #17-1003

Subject: Foundation Inspection
Attn: Alison Taylor

Per your request, we have evaluated the foundation of the residence located at the above referenced address. Our visual inspection was performed on November 10th, 2017. The purpose of our evaluation was to determine if there is currently a structural issue with the foundation wall of the home. It was brought to our attention that there were some cracks in the east and west walls of the home. It was also brought to our attention that the east wall of the home has experienced leaking, and that it is intended to add fill in order to slope the grade away from the home properly.

Building Characteristics:

The home is a single story and is a conventionally framed wood structure. The exterior finish of the home consists of vinyl siding. The foundation consists of masonry foundation walls that are approximately 7'-2" in height. From our evaluation, we have determined that there are areas of the foundation that need to be addressed in order for the foundation to be considered structurally sound. The foundation wall located at the east and west of the home that are each 24 ft. in length have experienced excessive bowing (see page 3 and 4). There are horizontal crack in the west foundation wall that have been caused by the foundation walls bowing inward. The east foundation wall also appears to have bowed in significantly, however, at the time of our inspection the wall was covered with finished drywall.

Recommendations:

It is our recommendation to add earth anchors or wall braces to the east and west foundation walls in order to stabilize the walls and to prevent further bowing. The anchors or braces should be installed at approximately 5'-0" O.C. across the entire length of each foundation wall (see details on page 5 and 6). It is also recommended to add fill to all walls where the grade is sloped back towards the foundation. The fill will help prevent water infiltration into the basement as well as to help limit the excessive forces caused by saturated soil fill.



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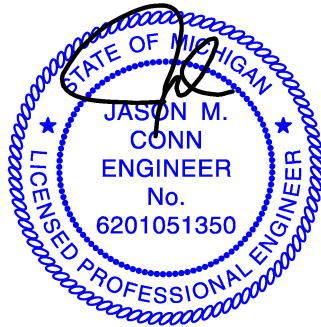
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Provided that the wall is stabilized as recommended, the foundation of the home will be considered structurally sound.

If you have questions in regards to our evaluation, please contact our office.

Sincerely,

Jason M. Conn, PE





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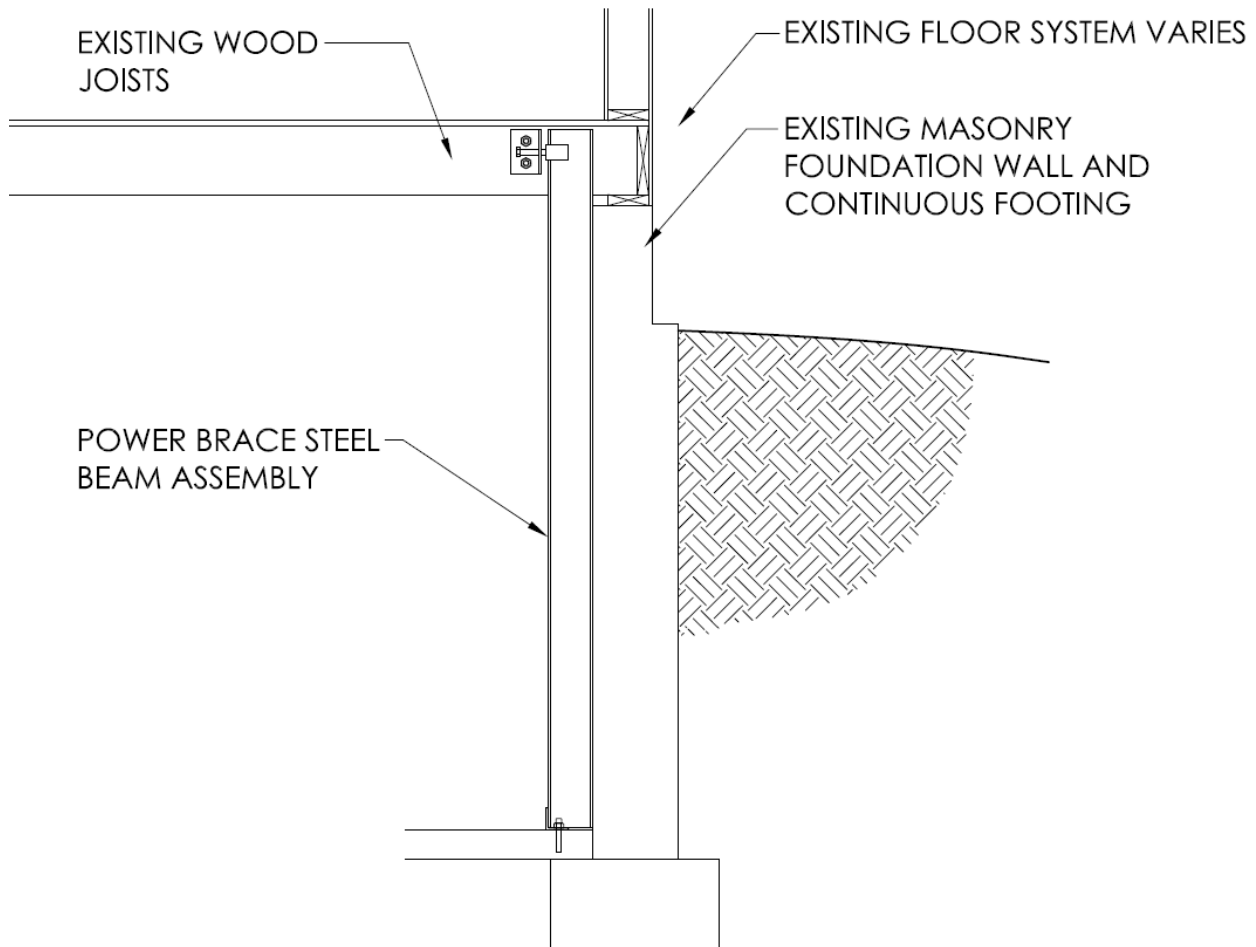
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1 SECTION DETAIL - POWER BRACE

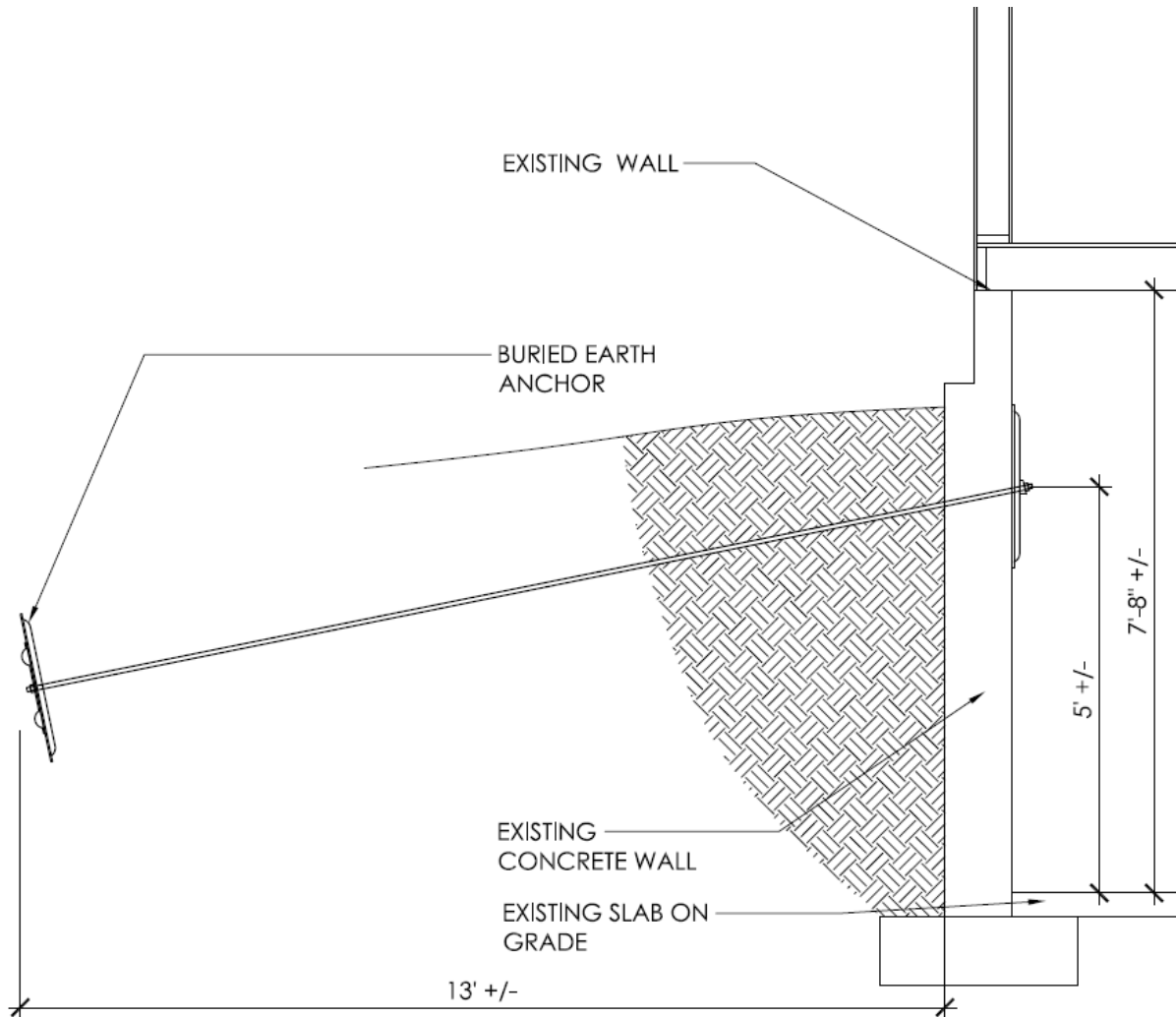
Scale: 3/8" = 1'-0"

Figure1



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2 SECTION DETAIL - WALL ANCHOR (STANDARD)
Scale: 3/8" = 1'-0"

Figure2