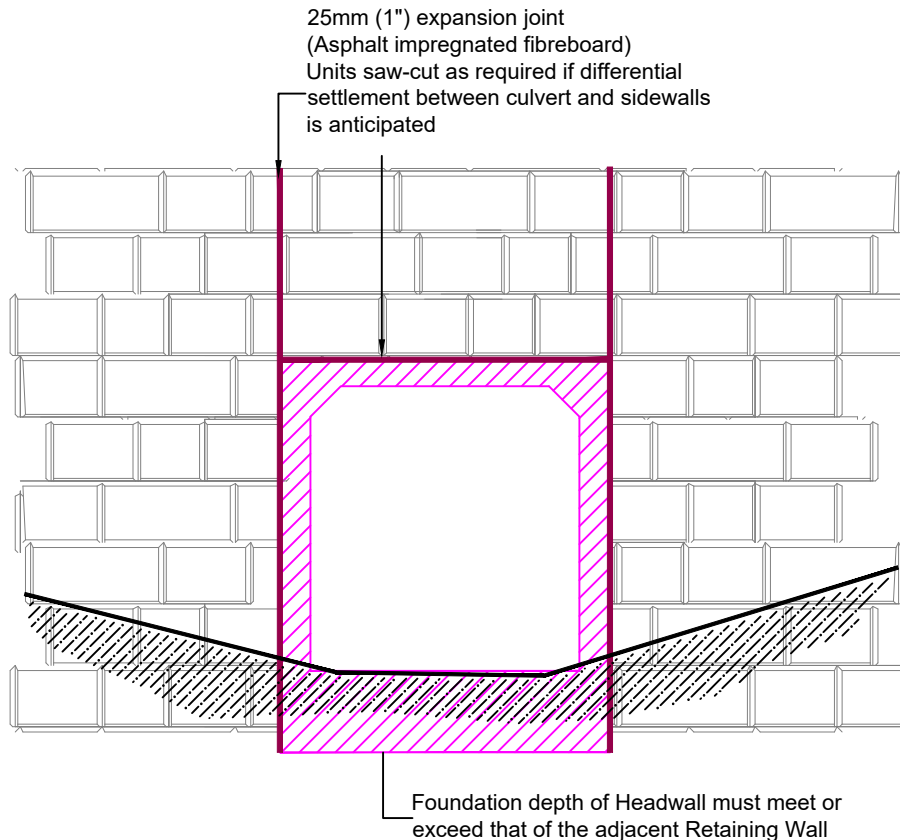


# SIENA SMOOTH<sup>®</sup>

## HEADWALL THROUGH WALL

REF: Detail\_Siena Smooth\_Head Wall through Retaining Wall



Notes to Contractor and Headwall Designer.

1. The design of the Headwall is by others.
2. The Headwall design must account for the project specific weight of the wall above it as a segmental retaining wall cannot span distances horizontally. The Headwall must be dimensioned to act as an independent retaining wall.
3. The geometry of the Headwall must account for the 1H:8V batter of the Retaining Wall.
4. The elevation view shows the bottom of the SRW blocks resting on top of the Headwall. During the actual construction of the Retaining Wall, this elevation may not be perfectly met in the field. Mortar may have to be used to raise the bearing elevation on top of the Headwall. The design of the bearing pad must be provided by the Headwall designer.
5. At the Headwall/Retaining wall side interfaces, a 25mm (1") expansion joint material must be placed to prevent washout of infill material and provide a tight fit between the two structures.
6. It is recommended that the SRW above the Headwall be separated from the adjacent sidewalls with joint (cut) to prevent cracking from differential settlement.
7. Headwall designer must ensure that Headwall and attached conduit are capable of sustaining total and differential settlement values that meet or exceed those of the retaining wall (refer to specifications).



Engineering design by RisiStone Inc.

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