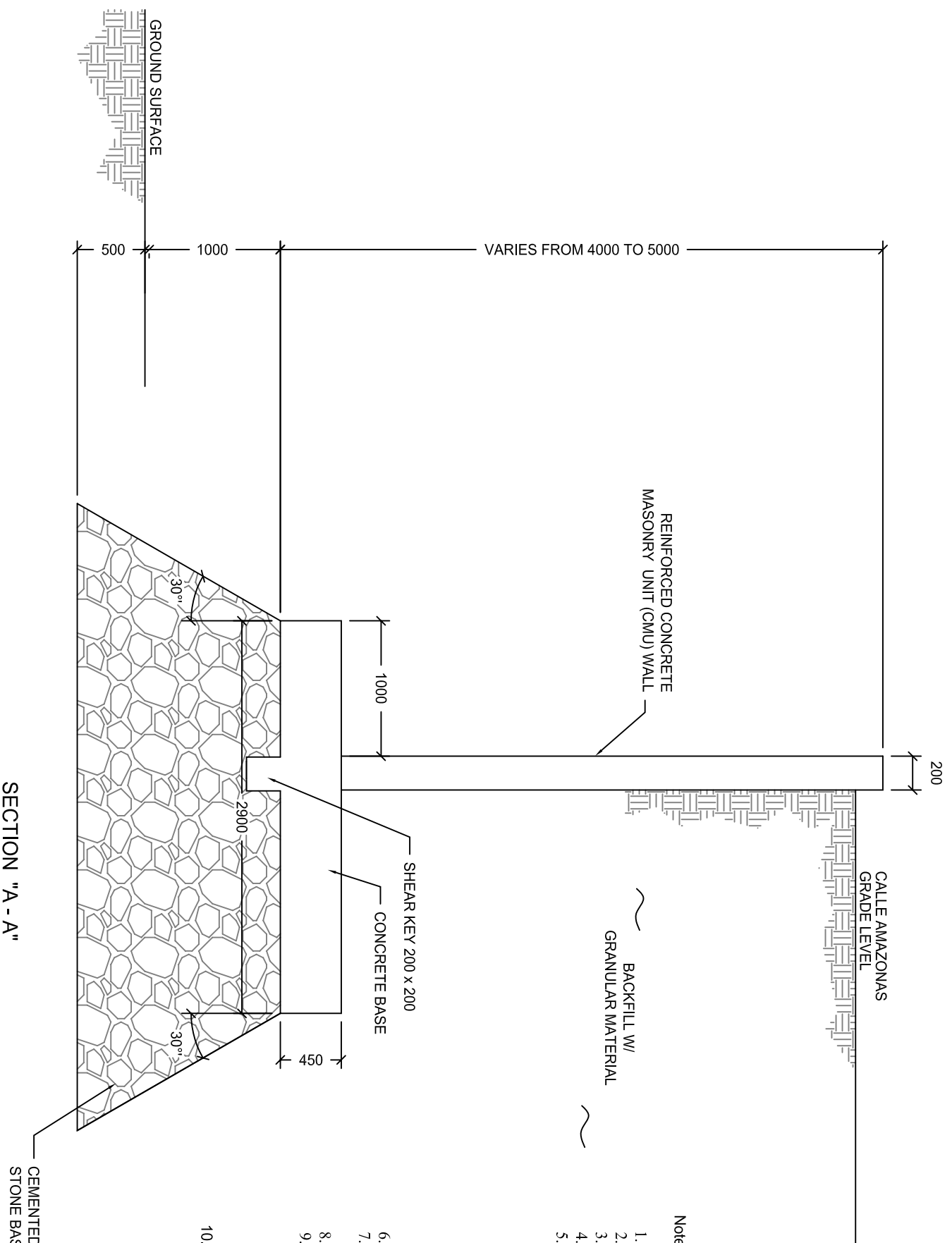


SECTION PLAN OF WALL



- Notes:
1. All dimensions are in millimeters.
  2. The length of the retaining wall extension is approximately 27 meters.
  3. Reinforcing steel bars are equivalent to ASTM A615 Grade 60 bars with yield strength of 60,000psi.
  4. All column reinforcement is on the outside face of the wall.
  5. All concrete is 4000 psi.
    - a. The wall footing concrete proportions shall be 1:1 ½ :1 ½ (cement, fine, coarse aggregate) and use a 1 ½ inch maximum aggregate. For each cubic meter of concrete, 526 kg cement, .521 cubic meters of sand, .527 cubic meters of gravel and 21 liters of water per each 50 kg sack of cement.
    - b. The columns and beam concrete proportions shall be 1:1 ½ :1 ½ (cement, fine, coarse aggregate) and use a ¾ inch maximum aggregate. For each cubic meter of concrete, 532 kg cement, .527 cubic meters of sand, .527 cubic meters gravel, and 22 liters of water per each 50 kg sack of cement.
  6. All Concrete Masonry Units (CMUs) are 1,500 psi.
  7. All CMU cells are fully grouted. The grout will use a 3/8 inch maximum grout size. The grout proportions shall be 1:3:2 (cement, sand, gravel) and enough water to make the grout flowable.
  8. The backface of the retaining wall will be coated with an impermeable sealant.
  9. The backfill material shall be free draining clean sand with some gravel (SW or SP soil per the Unified Classification System). No particle size larger than 3 inches shall be permitted. The material shall have less than 5% passing the No. 200 sieve. All materials shall be compacted to a 75% relative density (per ASTM D 4254). Soil will be placed in lifts no thicker than 8 inches loose material.
  10. Top of wall and column reinforcements will be covered with mounded cement to prevent pooling of water.