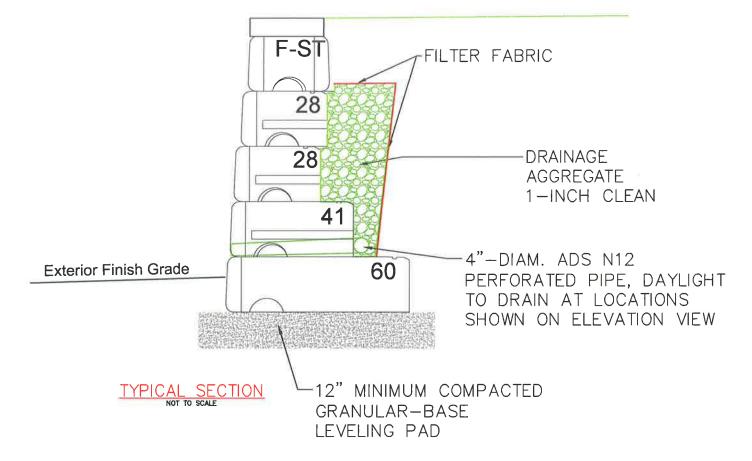
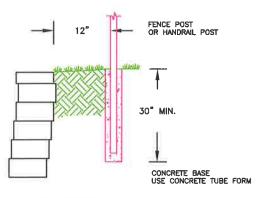
General Notes:

- 1. These notes are developed for projects with multiple walls. The notes apply to projects with one wall even though the notes refer to 'walls'.
- 2. This design is for retaining walls only and is based on specific products (geogrids, drainage composites and erosion media). Any substitution of the specified products will invalidate this design. Any changes in wall location, elevations of leveling pad, grades at the toe or top of the will invalidate the design. This drawing is being furnished for use on this specific project only. Any party accepting this document does so in confidence and agrees that it shall not be duplicated in whole or in part, nor disclosed to others, without the consent of John E. Shively, P.E. or Grounded Logic LLC.
- 3. The consideration of surface water runoff on, over and around retaining walls is specifically excluded from this work. Site grading should provide for active drainage away from the top and base of all walls. Surface water runoff should not be permitted to cascade over the top of the walls. Ponding of surface water runoff near walls should be prevented.
- 4. To prevent damage to the wall during site development, all surface drainage should be directed away from the wall. Excess water during heavy rain events, if not drained properly, can cause washouts at wall ends and 'blowouts' of interior sections. These precautions should be taken during wall construction, and after, until the final site drainage, landscaping and paving are complete.
- 5. This project consists of two gravity modular block retaining walls.
- 6. Minimum embedment of the wall shall as be indicated in the elevation views.
- 7. It may be necessary to adjust the grades at the top and ends of the wall to make the wall work around local variations in grade.
- 8. Design of safety fencing or barricades at the top of the wall is specifically excluded from the design of these wall. We recommend that an appropriate safety barrier be considered by the owner for the top of the wall.
- Design Parameters (Drained/Long Term Parameters)
 Reinforced Soil/Leveling Pad Crushed Limestone, Phi 40 degrees, Unit Weight 135 pcf, zero cohesion. Limestone Screenings may not be used. Crushed Limestone shall have no shale included.
 Retained Soil Lean Clay, Phi 29 degrees, 25 psf cohesion, Unit Wt 120 pcf
 Foundation Soil Lean Clay, Phi 29 degrees, 25 psf cohesion, Unit Wt 120 pcf
- 10. Block Type Redi-Rock Gravity Block with 1.625" setback.
- 11. Surcharge None to 100 psf parking lot surcharge above Wall 1; and 250 psf loading dock drive at the east end of Wall 2. Backslope — Horizontal Toe Slope — 5H:1V
 - Reinforcement NA; Filter Fabric Mirafi 140N
- 12. Construction observation and testing shall be performed in accordance with site development plans and specifications. No additional observation and testing requirements are required for the retaining wall.
- 13. Compaction of the leveling pad shall be to 95% Standard Proctor (ASTM D698).
- 14. The plan sheets are intended to be printed on 11x17 sheets at 100% so the physical scales can be used.
- 15. Retaining wall stationing convention used on this project as you stand on the ground below the wall, facing the wall, the left end of the wall is station 0+00. The wall baseline follows the wall along the line created by where the soil touches the wall at the bottom. The wall stationing increases from 0+00 to the station at the end of the wall.
- 16. The Typical Sections are presented on this page to show the elements of the wall. The specific blocks, geogrid placement, and location of leveling pad are presented on the elevation views on the following pages.
- 17. R-28PC blocks may be used in place of R-28 regular blocks. R-41HC may be used in place of R-41 blocks.





POST DETAIL

TYPICAL HANDRAIL AND/OR FENCE POST SCALE: NONE



New Retaining Walls Caledonia Hotel O'Fallon, Missouri



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